

SWEDISH AIRWORTHINESS DIRECTIVES (SAD)

SAD No 1-151

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Section 1. Swedish Manufactured Aeronautical Products

AIRWORTHINESS 1-151

DIRECTIVE NO:

AIRCRAFT TYPE: SAAB SF 340A and SAAB 340B

SERIAL No:s

SAAB SF 340A - 004 through -159

AFFECTED:

SAAB 340B -160 through -459

SUBJECT:

Fire Protection - Cargo compartment smoke detectors - Replace Fenwall

smoke detector with Cerberus smoke detector

BACKGROUND:

Field experience has demonstrated bad reliability with the Fenwall smoke detectors located in the cargo compartment. During high humidity environmental conditions false warnings have occurred causing the flight crew to perform the necessary emergency procedures. New developments in smoke detector technology have made it possible to produce detectors that are substantially less susceptible to humidity and thereby minimizing

false warnings. This SAD mandates replacement of the current cargo compartment smoke detectors with new units that have increased reliability

and decreased maintenance.

REFERENCE

Saab Aircraft AB Mandatory Service Bulletin

DOCUMENTS:

SAAB 340-26-023 dated 21 Dec. 1999 or later revision

ACTIONS:

Perform actions described in Saab Aircraft AB Mandatory Service Bulletin

SAAB 340-26-023 dated 21 December 1999 or later revision

LFS 1999:190

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

Norrköping

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COMPLIANCE

To be performed within 2 years from effective date of this SAD

TIME:

EFFECTIVE

1999-12-28

DATE:

LUFTFARTSVERKET Aviation Safety Department

LFS 1999:190

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

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FAA MCAI INFORMATION FORM

Aircraft Manufacturer/Model ECAA AD/Revision No./Date Service Bulletin/Revision No./Date Saab Aircraft AB/ LFV SAD 1-151/NC/ SAAB 340-26-023/NC/ 21 Dec. 1999 SAAB SF340A and SAAB 340B 21 Dec. 1999 1. Describe the unsafe condition, AND its root cause. Include description of how the problem could affect the safe operation of the airplane. See Item 1B, REASON, in referred Service Bulletin 2. Provide the number and description of occurrences which prompted the AD. Numerous occasions with false smoke warning from the cargo compartment smoke detector have occurred. The false warnings during flight have led to a number of emergency actions such as aborted takeoff, diversion of the flight routs, and emergency evacuation at the taxiway. 3. What is the compliance time and consequences if extended? What would be considered an appropriate grace period for compliance? See Item 1D, COMPLIANCE, in referred Service Bulletin. Extended compliance time will result in additional exposure to false cargo smoke warnings and associated emergency actions. 4. Cost of parts and/or installation work hours for the owner/operator (data from the manufacturer and their supplier, if applicable). US \$ 2.011/each Smoke Detector. 2 man-hours. 5. If parts are required, are they available for all aircraft? Yes What category best describes the cause of the unsafe condition? Operational **Quality Control Problem** Design Problem Other (Specify) **Unapproved Parts** Maintenance Should a ferry be permitted? If no, why not? No Yes Number of aircraft affected, by model designation and serial number (U.S. registered and worldwide) On US Register

Is further action anticipated to be necessary to correct this unsafe condition? If so, please provide description and recommended compliance time.

Date: 1999-12-21

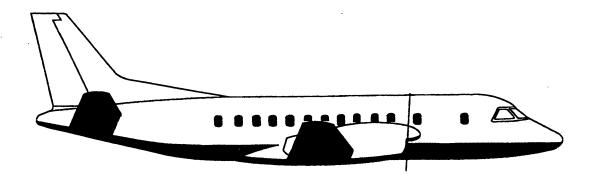
No further action is required.

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Worldwide (Including US Registered)

SAAB 340

SERVICE BULLETIN



Number:

SAAB 340-26-023

Date:

21 December 1999

Subject:

FIRE PROTECTION - CARGO COMPARTMENT SMOKE

DETECTORS - REPLACE FENWALL SMOKE DETECTOR WITH

CERBERUS SMOKE DETECTOR

Mod. No. 3017

The actions in this document have been classified as

MANDATORY

for aircraft on Swedish Register.

Luftfartsverket

The Swedish Civil Aviation Administration

Date

21 December 1999

/(Signed



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Service Bulletin

ATA CHAPTER: 26

FIRE PROTECTION - CARGO COMPARTMENT SMOKE DETECTORS - REPLACE FENWALL SMOKE DETECTOR WITH CERBERUS SMOKE DETECTOR

Mod No. 3017

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft:

Aircraft Mfg. Serial No's SAAB SF340A - 004 thru - 159.

Aircraft Mfg. Serial No's SAAB 340B - 160 thru - 459.

NOTE: For aircraft that have Cerberus smoke detectors (P/N CGAB1201-01) already installed

in cargo compartment, make a note in the aircraft logbook that this Service Bulletin is

implemented.

NOTE: Aircraft with forward lavatory and Service Bulletin 340-25-163 implemented have two

cargo compartment smoke detectors, other aircraft have just one smoke detector.

(2) Spares: Not affected.

B. REASON

Field experience has demonstrated bad reliability with the Fenwall smoke detectors located in the cargo compartment. During high humidity environmental conditions false warnings have occurred causing the flight crew to perform the necessary emergency procedures. New developments in smoke detector technology have made it possible to produce detectors that are substantially less susceptible to humidity and thereby minimizing false warnings. This Service Bulletin mandates replacement of the current cargo compartment smoke detectors with new units that have increased reliability and decreased maintenance.

C. DESCRIPTION

This Service Bulletin gives instructions for:

- Removal of two Fenwall smoke detectors in cargo compartment
- Installation of two Cerberus smoke detectors in cargo compartment.

D. COMPLIANCE

Mandatory.

To be performed within 2 years from issue of this Service Bulletin.

Mandatory for a/c on Swedish Register. Ref. Swedish Airworthiness Directives No 1-151.

To ensure the supply of smoke detectors, Saab recommend to place an order to Cerberus as soon as possible.

E. APPROVAL

The technical content of this Service Bulletin is LFV approved.

340-26-023

SAAB 340



Service Bulletin

F. MANPOWER

Estimated time to complete this Service Bulletin is:

1 persons required.

Total manhours: 2

Elapsed time (hours): 2

Labour cost at operators expense.

G. MATERIAL - COST AND AVAILABILITY

No material kit is provided in this Service Bulletin, See MATERIAL INFORMATION.

H. TOOLING

No special tooling required.

I. WEIGHT AND BALANCE

None.

J. ELECTRICAL LOAD DATA

Not affected.

K. REFERENCES

Aircraft Maintenance Manual (AMM)

26-13-15

L. OTHER PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC)

26-10-00

2. ACCOMPLISHMENT INSTRUCTIONS

A. JOB SET-UP

- (1) Before you start to do this Service Bulletin, make sure:
 - The aircraft is safe for maintenance
 - All the documentation is available.

B. REMOVAL

(1) Remove the Fenwall smoke detectors. (Ref. AMM 26-13-15).

C. INSTALLATION

(1) Install the Cerberus smoke detectors P/N CGAB1201-01. (Ref. AMM 26-13-15).

340-26-023

SAAB 340



Service Bulletin

3. MATERIAL INFORMATION

A. For material information, refer to IPC 26-10-00.

For material, please contact:

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