

Attachment 1 to:
AIRWORTHINESS GROUP CHAIRMAN'S FACTUAL REPORT

Of September 10, 2009

NTSB ID No.: LAX08PA259

Sikorsky Alert Service Bulletin Number 61B28-1, dated January 15, 2010



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No. 61B28-1

Subject: FUEL - Fuel Control Systems - Fuel System Installations - 40 Micron Fuel Filter Element and Packing, One-Time Replacement of

1. PLANNING INFORMATION

A. Effectivity

All S-61A/D/E/L/N/NM/R/V model helicopters.

Component:

Fuel filter, part number 52-2145 series manufactured by Janitrol Aero equipped with 40 micron filter.

B. Purpose

The purpose of this Alert Service Bulletin (ASB) is to provide instructions to replace the forward and aft fuel system 40 micron fuel filter elements with 10 micron fuel filter elements.

Background

Due to instances of contaminants being found in the fuel control pressure regulating valves, the potential existed for possible seizures of the fuel control pressure regulating valves. The fuel system currently operates with a 40 micron fuel filter installed. Installation of the 10 micron fuel filter elements would reduce the potential of larger contaminants reaching the engine, ultimately reducing the risk of sticking or seizure of the fuel control pressure regulating valves.

C. Description

Prepare helicopter for maintenance. Remove electrical and hydraulic power. Remove access cover to gain access to work area. Position applicable manual shut-off valve to CLOSE. Drain fuel from applicable fuel filter and line. Open fuel filter access panel in bottom of helicopter. Disconnect and cap drain line. Remove bowl, 40 Micron filter element,

ALERT SERVICE BULLETIN

No. 61B28-1

FUEL - Fuel Control Systems - Fuel System Installations - 40 Micron Fuel Filter Element and Packing, One-Time Replacement of

1. PLANNING INFORMATION (Continued)

and packing from filter head. Install new 10 Micron fuel filter element in bowl. Install bowl onto filter head with new packing and safety wire. Remove cap from drain line and reconnect to fuel system. Position applicable manual shut-off valve to OPEN. Reidentify fuel filter and fuel control assembly. Prime fuel system. Close fuel filter access panel. Reinstall access cover. Return helicopter to service.

D. Compliance

Compliance is essential. Sikorsky Aircraft Corporation recommends fuel filter element replacement outlined herein to be performed at the next scheduled preventative maintenance inspection or within 150 flight hours from release of this ASB, whichever occurs first.

E. Approval

The technical change effected by this document is FAA approved in accordance with the applicable requirements of Federal Aviation Regulations. For civil registered aircraft, this constitutes EASA approval under the terms of the current interim procedures for working with the European Community on airworthiness certification and continued airworthiness. Reference to the ED Decisions mentioned above shall be made in the release documents issued by the EASA 145 approved organization, releasing the relevant EU-registered helicopter or component to service (No EU concurrence can be made for restricted category aircraft).

F. Manpower (Estimated)

	<u>No. of Men</u>	<u>No. of Hours</u>	<u>*Man-Hours</u>
Removal of Fuel Filter Elements and Packings	1	2.0	2.0
Installation of Fuel Filter Elements and Packings	1	<u>2.0</u>	<u>2.0</u>
Total		4.0	4.0

* Does not include time required to prepare helicopter for maintenance, or return it to flight status.

G. Material

None.

H. Tooling

None.

ALERT SERVICE BULLETIN

No. 61B28-1

FUEL - Fuel Control Systems - Fuel System Installations - 40 Micron Fuel Filter Element and Packing, One-Time Replacement of

1. PLANNING INFORMATION (Continued)

I. Weight and Balance

None.

J. Electrical Load Data

Not affected.

K. References

Applicable Maintenance Manual.

L. Publications Affected

Applicable Illustrated Parts Catalog.

M. Attachment

None.

2 MATERIAL INFORMATION

A. Basis for Material Data

Per helicopter.

B. Bill of Material

<u>New Part No.</u>	<u>Qty</u>	<u>Key Word</u>	<u>Old Part No.</u>	<u>Instructions/ Disposition</u>
AM52-01064-1	2	Fuel Filter Element	52-0505-2	(1)
MS29513-140	2	Packing	MS29513-140	(1)

- (1) For price, availability, and lead time requirements of the parts listed above, contact your Customer Service Representative at Helicopter Support Inc. (HSI). Submit a purchase order referencing this ASB number and the helicopter serial number(s) upon which these parts will be used. This will allow HSI and the operator to track shipment and receipt of the parts. Orders will be accepted by letter, telephone, or facsimile (FAX). For prompt shipment, reference address of each shipping destination. Direct your order to:

ALERT SERVICE BULLETIN

No. 61B28-1

FUEL - Fuel Control Systems - Fuel System Installations - 40 Micron Fuel Filter Element and Packing,
One-Time Replacement of

2. MATERIAL INFORMATION (Continued)

HELICOPTER SUPPORT INC.,
124 Quarry Road
P.O. Box 11068
Trumbull, Connecticut U.S.A. 06611

Attn: Customer Service
FAX: (203) 416-4291 Telephone: (203) 416-4000
HSI website: www.HSIUS.com

C. Consumable Material

WARNING

OBSERVE ALL CAUTIONS AND WARNINGS ON CONTAINERS WHEN USING CONSUMABLES. WHEN APPLICABLE, WEAR NECESSARY PROTECTIVE GEAR DURING HANDLING AND USE. IF A CONSUMABLE IS FLAMMABLE OR EXPLOSIVE, MAKE CERTAIN CONSUMABLE AND ITS VAPORS ARE KEPT AWAY FROM HEAT, SPARK, AND FLAME. MAKE CERTAIN FIREFIGHTING EQUIPMENT IS READILY AVAILABLE PRIOR TO USE. FOR ADDITIONAL INFORMATION ON TOXICITY, FLASHPOINT, AND FLAMMABILITY OF CHEMICALS, CONSULT YOUR MEDICAL PEOPLE, OR THE MANUFACTURER OF THE CONSUMABLE.

<u>QTY</u>	<u>KEY WORD</u>	<u>PART NO.</u>	<u>INSTRUCTIONS/ DISPOSITION</u>
AS REQ'D	ANTI-SEIZE COMPOUND	TT-A-580 OR EQUIVALENT	(1)
AS REQ'D	LUBRICANT	VV-P-236 OR EQUIVALENT	(1)
AS REQ'D	CONTAINER (5-GALLON)	COMMERCIAL GRADE OR EQUIVALENT	(1)

(1) Procure from local supply

ALERT SERVICE BULLETIN

No. 61B28-1

FUEL - Fuel Control Systems - Fuel System Installations - 40 Micron Fuel Filter Element and Packing, One-Time Replacement of

3. ACCOMPLISHMENT INSTRUCTIONS (Continued)

A. Replace Fuel System Forward and Aft Fuel Filter Elements:

NOTE: Fuel control assemblies S6130-63209-041, -042, -043 and -044 contain 10 micron fuel filter elements and do not require fuel filter element replacement unless they are scheduled to be replaced.

- (1) Prepare helicopter for maintenance.
- (2) Turn off all electrical and hydraulic power.
- (3) Locate fuel control assembly.
- (4) Replace 40 micron fuel filter element (52-0505-2) and old packing (MS29513-140) with 10 micron fuel filter element (AM52-01064-1) and new packing (MS29513-140). Refer to Applicable Maintenance Manual.
- (5) On fuel filter identification plate, cross out existing fuel filter part number 52-2145-009 (S6130-63072-001) and reidentify fuel filter as 52-2145-014 (S6130-63072-002) using vibro-peen method or best shop practice.
- (6) Using rubber stamp or best shop practice, remove existing part marking on fuel control assembly bracket and reidentify fuel control assembly as follows:
 - (a) Re-identify fuel control assembly (S6130-63209-001) to S6130-63209-041.
 - (b) Re-identify fuel control assembly (S6130-63209-002) to S6130-63209-042.
 - (c) Re-identify fuel control assembly (S6130-63209-003) to S6130-63209-043.
 - (d) Re-identify fuel control assembly (S6130-63209-004) to S6130-63209-044.
- (7) Prime fuel system. Refer to Applicable Maintenance Manual.
- (8) Examine components for security. Make sure area is clean and free of foreign objects before closing access panels/covers.
- (9) Return helicopter to service.

B. Record of Compliance

- (1) Make an appropriate logbook entry to show compliance with this ASB.

ALERT SERVICE BULLETIN

No. 61B28-1

FUEL - Fuel Control Systems - Fuel System Installations - 40 Micron Fuel Filter Element and Packing,
One-Time Replacement of

3. ACCOMPLISHMENT INSTRUCTIONS (Continued)

- (2) Upon compliance with this Alert Service Bulletin, complete attached ALERT SERVICE BULLETIN COMPLIANCE RECORD CARD and return it to Sikorsky Aircraft.



Sikorsky

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Necessary

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STRATFORD, CONNECTICUT 06615-9129 U.S.A.
MAILSTOP: **K100A**
ATTENTION: WCS PRODUCT SAFETY MANAGER
WORLDWIDE CUSTOMER SERVICE

Please complete the form on the reverse side and FAX to
FACSIMILE NUMBER (860) 998-7565

or fold and return ENTIRE form to Sikorsky Aircraft Corporation

(Fold over and tape closed)

SIKORSKY AIRCRAFT CORPORATION

FACSIMILE NUMBER (860) 988-7556

ATTENTION: DIRECTOR
COMMERCIAL CUSTOMER SERVICE

IMPORTANT NOTICE

Upon **COMPLIANCE** with the attached **SB**. Sikorsky requests your cooperation in completing and returning by mail or **FAX** this **ENTIRE PAGE**.

Please fill in the requested information at the bottom of the page, so we may maintain proper records documenting the configuration of your aircraft. This information is useful when determining configuration and effectivity of issues affecting fielded aircraft.

This request is in keeping with our policy to assure that our customers receive the latest information applicable for the maintenance of your aircraft. Thank you.

SERVICE BULLETIN: No. 61B28-1 **Compliance Record Card**

TITLE: FUEL - Fuel Control Systems - Fuel System installations - 40 Micron
Fuel Filter Element and Packing, One - Time Replacement of

OWNER/OPERATOR: _____

SUBMITTED BY: _____ **DATE** _____

FOLLOWING SERIAL NUMBERS ARE NOT AFFECTED BY THIS SB

SB HAS BEEN COMPLIED WITH ON THE FOLLOWING SERIAL NUMBERS

(Fold Up to Arrows)