



SCHWEIZER SERVICE NOTICE

NOTICE NO. N-224

DATE: Sept. 21, 1988

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MANDATORY

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SUBJECT: INSPECTION AND POSSIBLE REPLACEMENT OF 33-199-915 FUEL FILTER ELEMENT (WIRE MESH SCREEN WITHOUT STIFFENERS).

MODELS AFFECTED: All Model 269A, TH-55A, 269A-1, and 269B Series Helicopters.
Model 269C Helicopters having Serial Numbers prior to 1313.

TIME OF COMPLIANCE:

- o Shall be accomplished at next 100 hour inspection, or within three months of issue date of this notice, whichever occurs first.
- o Shall be accomplished immediately, if fuel system contamination is evident or suspected.

REFERENCE: 269 Series - Basic HMI, Reissued 15 March 1982
SIGMA-TEK Service Letter No. 007, Dated February 8, 1988

PREFACE: Reports indicate a possibility of bending, twisting, and distortion of the subject fuel filter element. This Service Information Notice lists instructions to disassemble the fuel filter strainer and to identify the type of fuel filter element installed within. Fuel filter strainers which incorporate the subject fuel filter element must be subjected to the inspection specified by the attached SIGMA-TEK Service Letter No. 007. Any damage of the filter element found during the inspection is cause for replacement of the element with the current type element. (The current type element incorporates stiffeners to make it less susceptible to damage.) It should be noted that the subject fuel filter element has been utilized as original equipment on later Model 269C Helicopters (S/N 1030 and SUBS) and may have been installed as spares replacement on earlier Model 269 Series Helicopters (since 1980).

Failure to comply with this Service Information Notice may lead to improper fuel filtering which could result in clogging of the engine fuel system, and subsequent loss of engine power.

PROCEDURE

- a. Close fuel shutoff valve and disassemble fuel strainer in accordance with Basic HMI, paragraph 5-44.
- b. Visually check filter element to determine material composition.

NOTE

Filter elements which are made of fiber material are not affected by the attached SIGMA-TEK Service Letter No. 007. However, reports have revealed that fiber filter elements may shed fibers which could contaminate the fuel system. Therefore, replacement of the fiber filter element with the current type element (metal screen incorporating stiffeners) is suggested at earliest convenience.

- c. Visually inspect filter element for damage and distortion as specified on the attached SIGMA-TEK Service Letter No. 007.
- d. If any damage or distortion of the filter element is observed during the inspection, remove the filter element and replace it with the current 33-199-915 element which incorporates stiffeners. (Refer to Figure 1.)

NOTE

As shown in Figure 1, the clip which secures the filter element in the stainer must be installed such that the curved part of the clip is between the straight part (of the clip) and the base of the element. If clip is installed in opposite manner, the element may slide down in the strainer and allow unfiltered fuel to enter the engine fuel system.

- e. Ensure that element retention clip is installed in proper manner as shown in Figure 1.
- f. Reassemble filter stainer in accordance with Basic HMI, paragraph 5-47; open FUEL SHUTOFF valve.
- g. Record compliance with this Service Information Notice in Compliance Record of Helicopter Log Book.

WEIGHT AND BALANCE DATA

Weight and balance not affected.

NOTES:

① CURRENT ELEMENT INCORPORATES STIFFENERS TO MAKE IT LESS SUSCEPTABLE TO DAMAGE.

② ENSURE THAT RETENTION CLIP IS INSTALLED SUCH THAT THE CURVED PART OF THE CLIP IS BETWEEN STRAIGHT PART AND BASE OF ELEMENT.

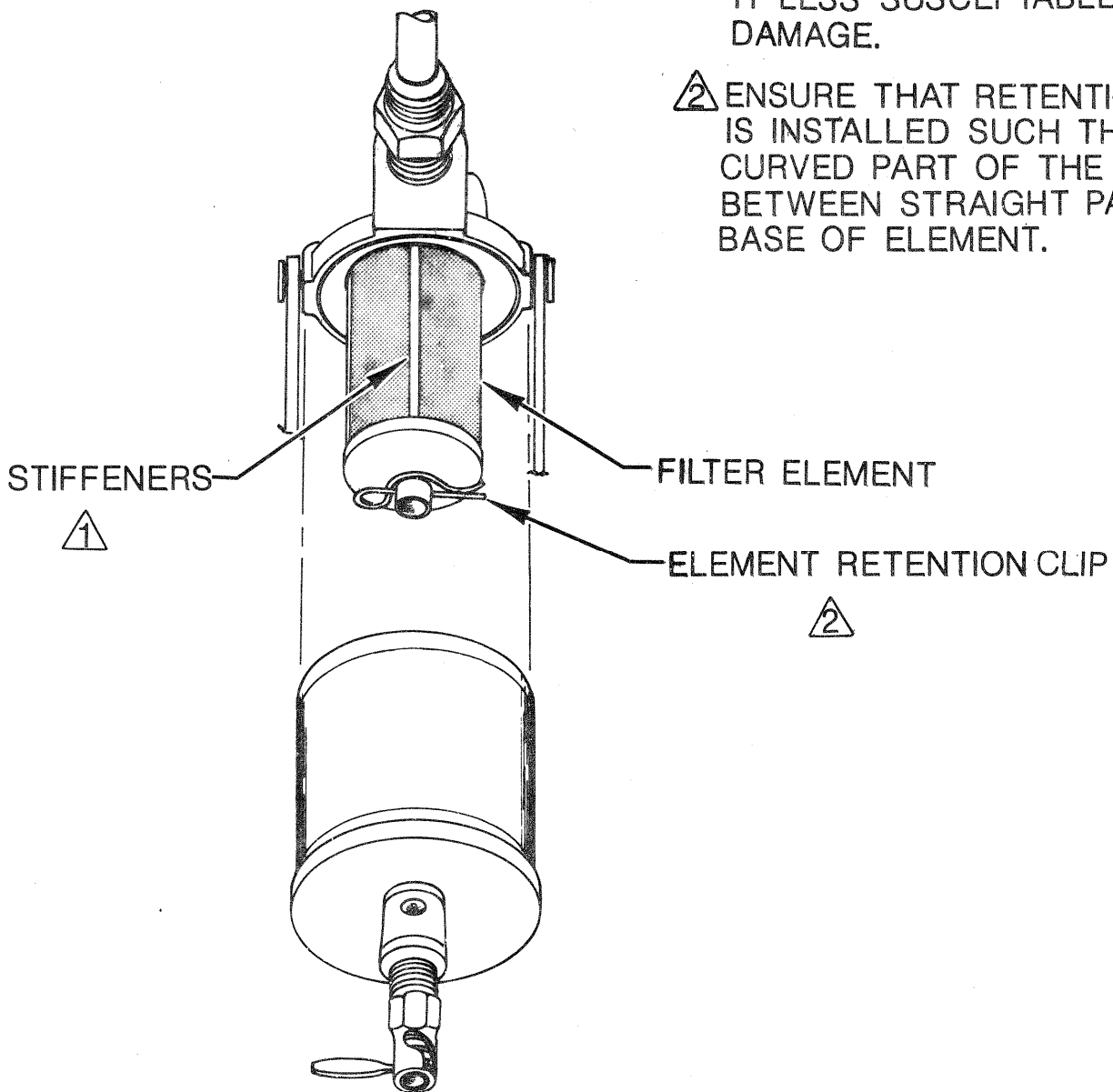


FIGURE 1. FUEL FILTER STRAINER - EXPLODED VIEW.

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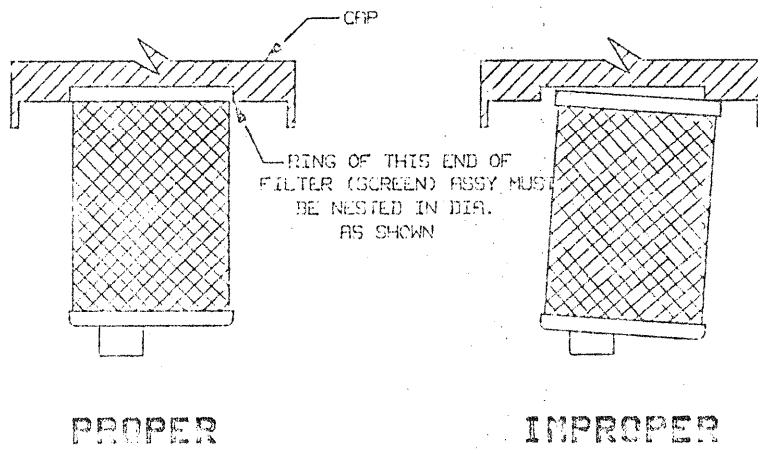
SIGMA TEK FUEL STRAINERS P/N G199-105-5D
SIGMA TEK FILTER ASSEMBLY P/N 33-199-915

Service Letter No. 007

Notification of Suggested Inspection

The purpose of this service letter is to cause inspection of all P/N 33-199-915 Filter Assemblies used in P/N G199-105-5D Fuel Strainers. Filter assemblies of the referenced part number that were manufactured prior to 15 Nov 87 were somewhat delicate and damage has been noted on several units in the field that were cleaned or where the filter assembly had been replaced.

The Fuel Strainers should be checked to assure that the Filter Assembly is nested in its proper installed diameter in the strainer cap and that the filter is not damaged. See sketch below.



The Filter Assembly should be inspected for damage due to improper installation, handling, or shipping damage, such as: being twisted, distorted, collapsed, or torn.

The current Filter Assembly, P/N 33-199-915, is manufactured with stiffeners which make it less susceptible to damage. These are available through the Sigma Tek Parts Sales Department. Unused G199-105-5D Fuel Strainers and unused 33-199-915 Filter Assemblies may be returned for exchange.

SIGMA-TEK

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