



## **SERVICE BULLETIN**

**TO** : EC130 Helicopter Owners/Operators with STC  
SR01373SE installed  
**FROM** : FDC/aerofilter Engineering  
**SB NUMBER** : SB.FDC.EC130.0004  
**ORIGINAL SB NO.** : SB EC130-001  
**CATEGORY** : Mandatory Service Bulletin  
**EFFECTIVITY** : EC130 equipped with STC SR01373SE  
**DATE** : July 12, 2005

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### **FILTER SEAL ELEMENT**

#### **1.0 BACKGROUND**

This Service Bulletin provides a temporary procedure to temporarily remove the aft element seal to prevent possible ingestion into the engine.

A recent inspection revealed debonding of the aft filter element seal attached to the upper housing. Total time since installation of the filtration system was approximately 1300 hours. It is not clear what initiated the debond. If this seal detaches, it may be ingested into the engine causing damage and possible engine failure. However, as a precaution, this requirement for removal is being issued until a more permanent solution is available.

FDC has received a single report from the field of a filter element seal debond approximately 1300 hours after installation of the filtration system. The cause for this debond is not clear, however, FDC recommends removing the seal before next flight. It is permissible to operate the aircraft with this section of seal missing until a permanent modification kit is installed. A modification kit is now being developed based on our understanding of the observed debond. It should be noted that with the seal removed, filtration efficiency will be slightly reduced until the modification kit is installed but this is necessary to maintain safety of flight.

This Service Bulletin will be revised when a repair kit is developed and FAA approved.

#### **2.0 COMPLIANCE**

Mandatory Service Bulletin

### **3.0 COMPLIANCE TIME**

Before Next Flight

### **4.0 SPARES KIT AVAILABILITY**

To be determined

### **5.0 INSTALLATION TIME**

Inspection/removal of seal: 1 hour.

Disposition of Removed parts: Bag and tag the removed seal. Retain all portions of the seal for reinstallation.

### **6.0 WEIGHT & BALANCE**

Not affected

### **7.0 FLIGHT MANUAL REVISION**

None

### **8.0 DOCUMENTS**

None

### **9.0 INSTALLATION INSTRUCTIONS**

#### **1. REMOVAL OF AFT SEAL**

- (1) Remove the filter element from the upper housing.
- (2) Cover the engine to prevent debris from falling into the engine inlet.
- (3) Carefully peel the aft seal from the upper housing – See Figure 1, Page 3.
- (4) Remove any debris/residue remaining on the duct.

#### **2. INSTALLATION OF MODIFICATION KIT**

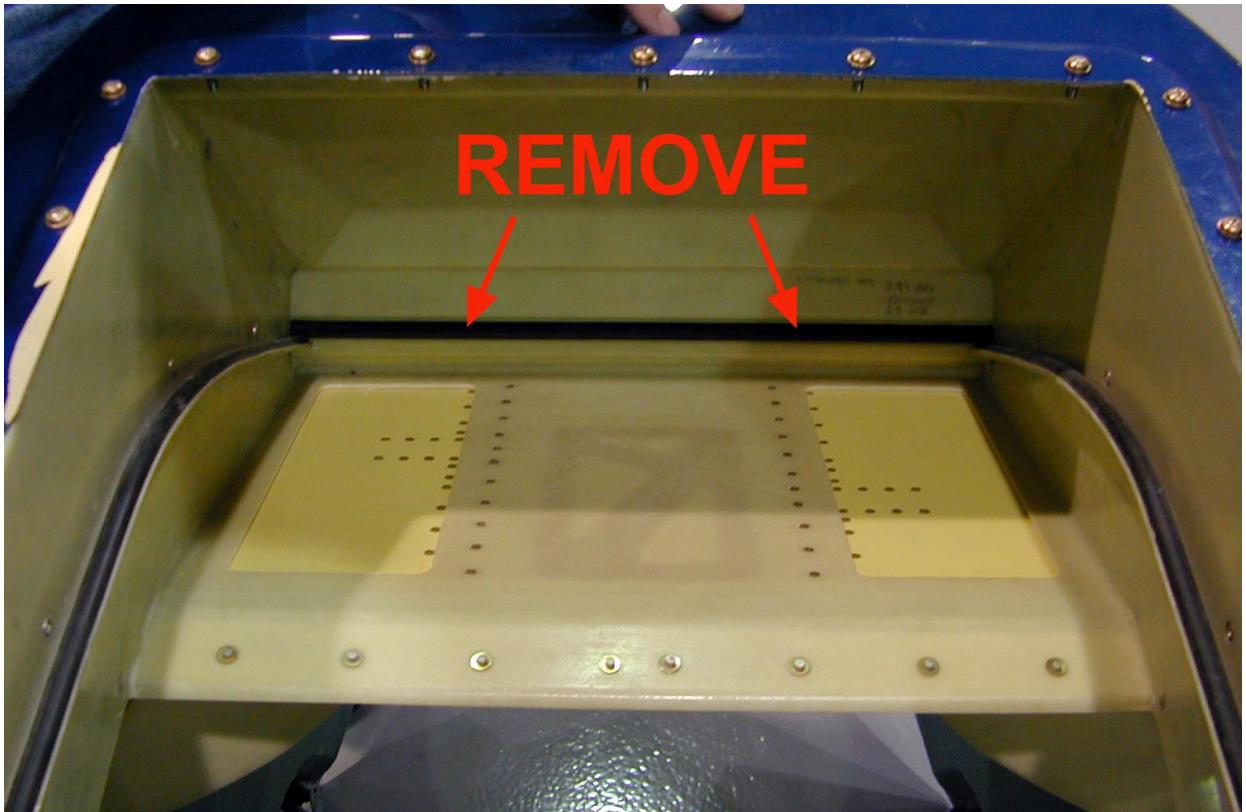
- (1) Modification Kit will be FAA approved. Expected availability of kit is July 20, 2005. Separate instructions for installation will be provided with kit.

### 3. RETURN TO SERVICE

(1) Replace filter element.

### 4. LOG BOOK ENTRY

(1) Upon completion of this modification, make an appropriate maintenance entry in the log book similar to "Accomplished FDC Service Bulletin No. EC130.0004 on (date) by (name), number/stamp."



**FIGURE 1: Seal to be removed  
(Looking aft)**

FDC Engineering



**Russell Goulden  
Vice President**



**SERVICE BULLETIN COMPLIANCE NOTIFICATION**

**SB.FDC.EC130.0004**

**TO : FDC Engineering**  
**FROM :**  
**COMPANY :**  
**AIRCRAFT : S/N(s)**  
**PHONE :**  
**FAX :**  
**EMAIL :**  
**DATE :**

**I have fully complied with FDC SB.FDC.EC130.0004**

**NAME :**  
**POSITION :**  
**A&P NO :**  
**DATE :**

**SIGNED : .....**

**MAIL TO :** FDC Engineering  
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Novato, California 94949

**OR EMAIL :** [SBFDCEC1300004@fdcaerofilter.com](mailto:SBFDCEC1300004@fdcaerofilter.com)

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