



1625 North 1100 West  
Springville, UT 84663  
801-489-2000

# SERVICE BULLETIN

**SB # 160330-5905587WE**

**SUBJECT:** Excess epoxy on the inside surfaces of the Fuel Filter Element that may become detached and flow into the downstream fuel system.

## REVISION HISTORY TABLE

Revision	Change Description	Release Date
A	Original Release	03/31/2016

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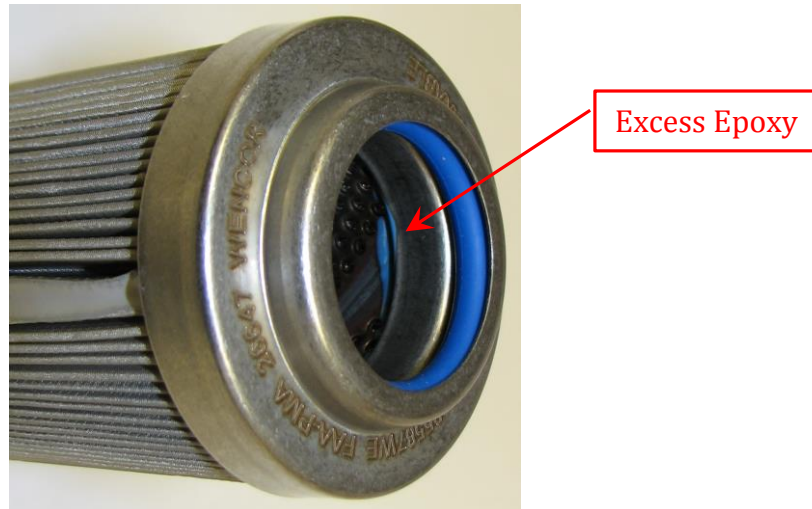
### 1. Planning

#### a. Effectivity

Wencor P/N	NHA P/N	NHA Description	ATA	Engine Application
5905587WE  Fuel Filter Element	5006488 5008269 5009980 5009982 5009984 5009986	Power Driven Rotary Fuel Pump	73-10-09 73-10-07	PW118 series PW119 series PW120 series PW121 series PW123 series PW124 series PW125 series PW126 series PW127 series

### 2. Reason

During the manufacturing of the Fuel Filter Element, epoxy is used to attach the filter components to the filter end caps. Some Filters were manufactured with excess epoxy on the inner surfaces of the Filter as shown in Figure 1. The excess epoxy may become detached and potentially contaminate the downstream fuel system components and may ultimately lead to engine malfunction.



**Figure 1, Excess Epoxy on Inner Surface of Fuel Filter**

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### 3. Background

The Fuel Filter Element is installed into the outlet port of the Power Driven Rotary Fuel Pump as shown in Figure 3. The purpose of the Fuel Filter Element is to filter out any contaminants in the fuel before the fuel flows downstream into the other fuel system components.

Wencor was notified by a single customer that while examining a Fuel Filter Element before installation, it was noticed that the inner surface of the Filter had excess blue colored epoxy and therefore the customer returned the Filter for investigation.

### 4. Safety

The effects from the excess epoxy would be unnoticeable unless all or a portion of the blue epoxy material became dislodged and flowed into the downstream fuel system. Although Wencor has never had a customer report of fuel system failure from dislodged epoxy, it is possible that this scenario may occur. Dislodged bits of epoxy could affect the operation of the downstream Fuel Control Unit (FCU) and ultimately affect normal operation of the affected engine.

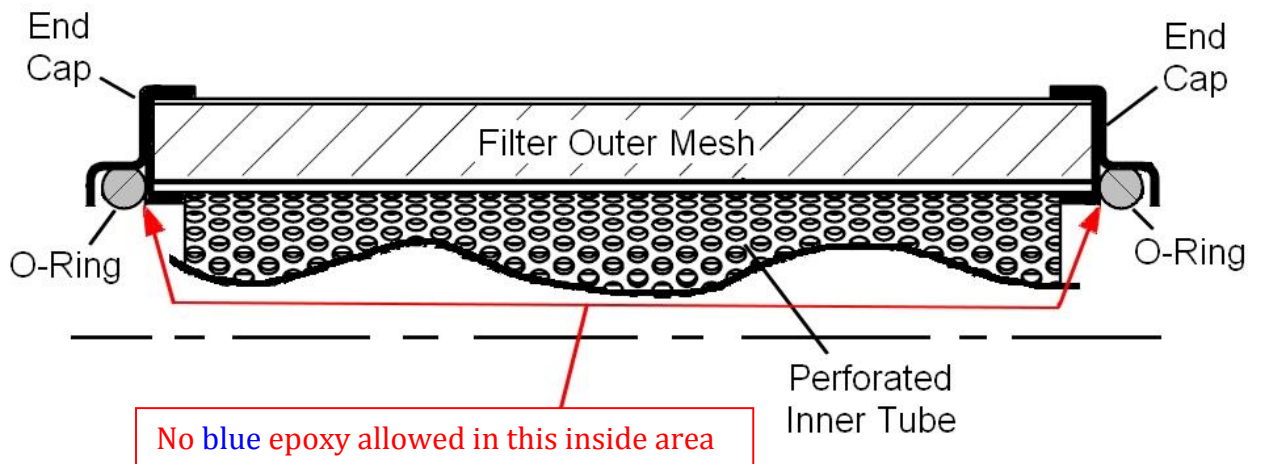
### 5. Recommended Actions

#### a. Line Maintenance (for parts in service)

Within the compliance time given below in section 6, any Wencor Fuel Filter Element, PN 5905587WE, that was purchased from Wencor before March 2016, that is currently installed into the NHA Power Driven Rotary Fuel Pump shall be removed and be visually inspected for excess epoxy on the inner surfaces. Any blue colored epoxy located on any of the Filter inner surfaces as shown in Figure 2 is cause for removal and replacement of the Fuel Filter Element per section 7 below.

Fuel Filter Elements that are found to be free of excess epoxy shall be permanently marked on the end cap with “**OK**” using a manual scribe or hand held vibro-engraver (reference SAE AS478-2D or -5A) and may be reinstalled for continued service if all other instructions for continued airworthiness have been verified.

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**Figure 2**, Filter Section View Showing Area for Visual Inspection for Blue Epoxy

b. Repair and Overhaul (for parts not in service)

All Wencor Fuel Filter Element's that were purchased from Wencor before March 2016 and are not installed into the NHA Power Driven Rotary Fuel Pump or are installed into spare Pumps that are not yet in service shall be visually inspected for excess epoxy located on the inner surfaces as shown in Figure 2. If excess epoxy is found, the Filter shall be returned to Wencor for replacement per section 7 below.

Fuel Filter Elements that are found to be free of excess epoxy shall be permanently marked on the end cap with "OK" using a manual scribe or hand held vibro-engraver (reference SAE AS478-2D or -5A) and may be put into service.

6. Compliance

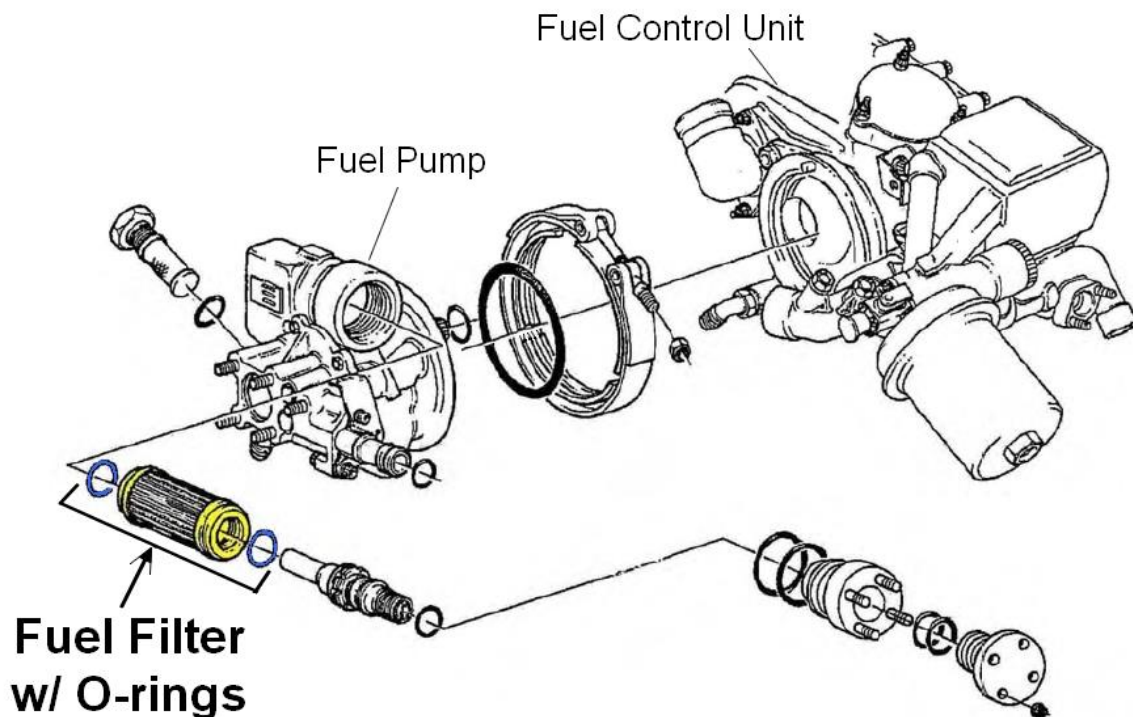
The Fuel Filter Element visual inspection shall be done at the next opportunity where this inspection can be accomplished regardless of other scheduled aircraft maintenance actions and shall not exceed 30 days past the date of this SB.

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### 7. Material

Wencor Fuel Filter Element, PN 5905587WE, that require replacement as a result of this Service Bulletin will be covered free of charge under the Wencor material warranty. If replacement parts are not available, credit will be provided.

If there are any questions regarding this Service Bulletin, please contact the applicable Wencor representative by calling 801-489-2000 or email: [sales@wencor.com](mailto:sales@wencor.com). For technical questions regarding this SB please contact Jon Bies at [jbies@wencor.com](mailto:jbies@wencor.com).



**Figure 3:** Fuel Filter Element Installed into Fuel Pump