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SERVICE LETTER

No. SL-AG-116

Initial Release 01/28/2015

H80 Airplane 10 Micron Fuel Filter Servicing

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Vice President of Engineering

AIRPLANES AFFECTED:

MODEL

S2R-H80

SERIAL NUMBERS

H80-101 & UP

LOG OF REVISIONS

NOTE: Re-formatting and correction of typographical errors is not considered revision. True revisions are indicated by a dark vertical line at the right margin of the lines revised.

Rev.	Page	Description of Revision	By:
IR	All	New Document Initial Release.	G.Moreland 1/28/2015

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1.0 PURPOSE AND REASON FOR PUBLICATION

To inform all H80 aircraft owners/operators of the need to install a new 10 micron fuel filter element kit at 100 hours of service or as service conditions indicate. Replace every 100 hours thereafter or as service conditions indicate.

2.0 SCOPE/COMPLIANCE

It is recommended that this Service Letter be accomplished to ensure continued airworthiness of the aircraft.

Note: A maintenance manual update to add this requirement to the 100 hour inspection criteria for the aircraft is forthcoming. However, in the interim, it is recommended that this Service Letter be complied with immediately.

3.0 BY WHOM WORK WILL BE ACCOMPLISHED

The work is to be accomplished by an FAA licensed A&P mechanic, or foreign equivalent. The action must be recorded in the airplane log book and signed off by the mechanic.

4.0 APPROVAL

7(A). THRUSH AIRCRAFT, INC. APPROVAL

This Service Letter is approved by the Vice President of Engineering at Thrush Aircraft, Inc.

7(B). FAA APPROVAL

N/A

5.0 MAN HOURS

4.0 hours

6.0 NEW PARTS AND MATERIAL

PARTS REQUIRED MAY BE OBTAINED FROM THRUSH AIRCRAFT.

PART #	DESCRIPTION	
1743645-02	Fuel Filter Element Kit	1
<i>Note: Kit includes the following items:</i>		
1743645-01	Fuel Filter Element Assembly	1
1743629-01	Seal	2
034921-01	O-ring	1

7.0 INSTRUCTIONS TO REPLACE FILTER

7(A). REMOVE APPLICABLE SKINS.

Remove the skins that are high-lighted in Figure 116-1 from the fuselage forward assembly to gain access to areas where work is to be performed.

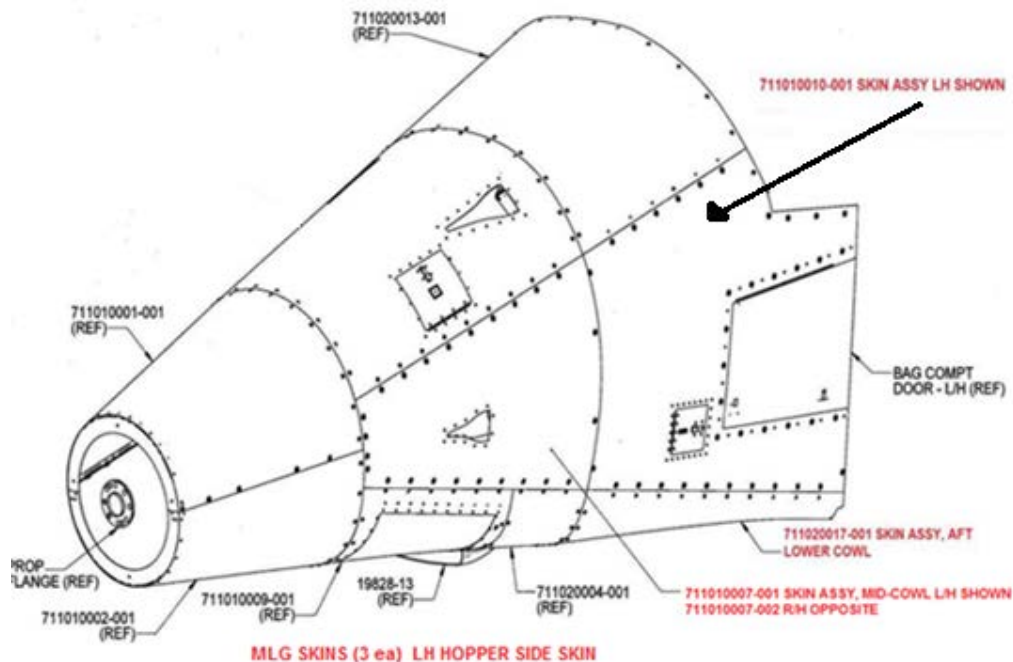


Figure 116-1 Skins to be Removed

7(B). DISCONNECT BATTERY AND DRAIN FUEL FILTER

Turn airframe fuel shutoff valve to “OFF” position. Obtain adequate containers to catch fuel released.

Drain the fuel Filter System.

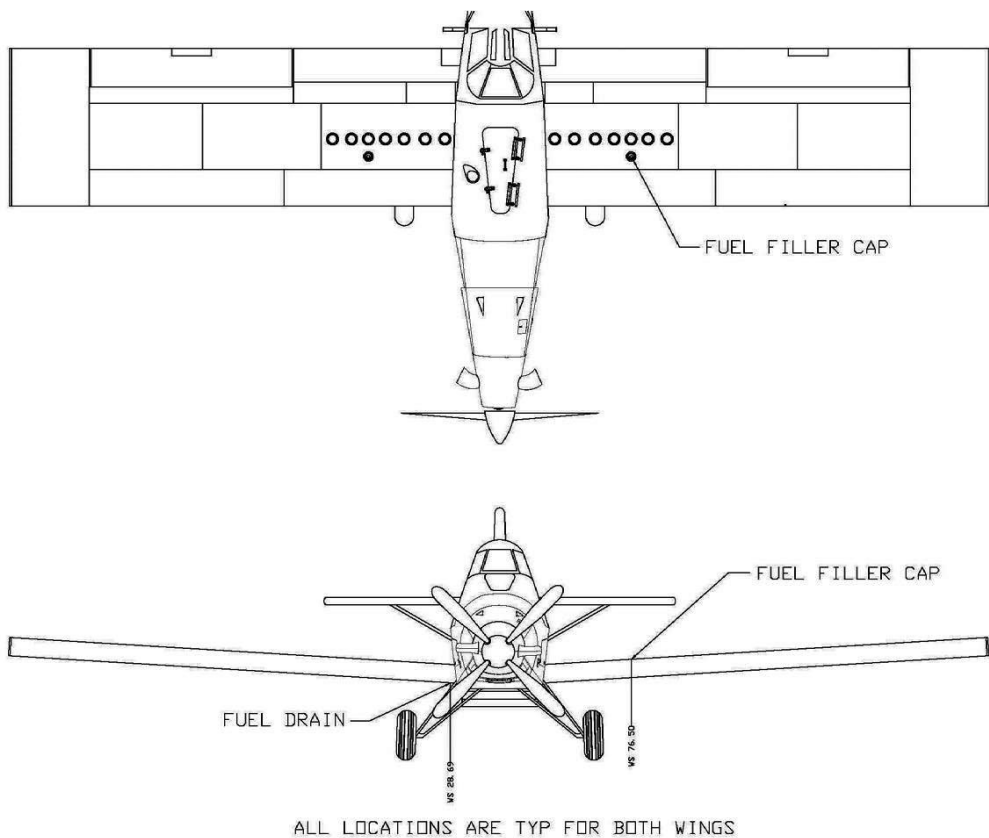


Figure 116-2 Wing Tank Fuel Drain Typical

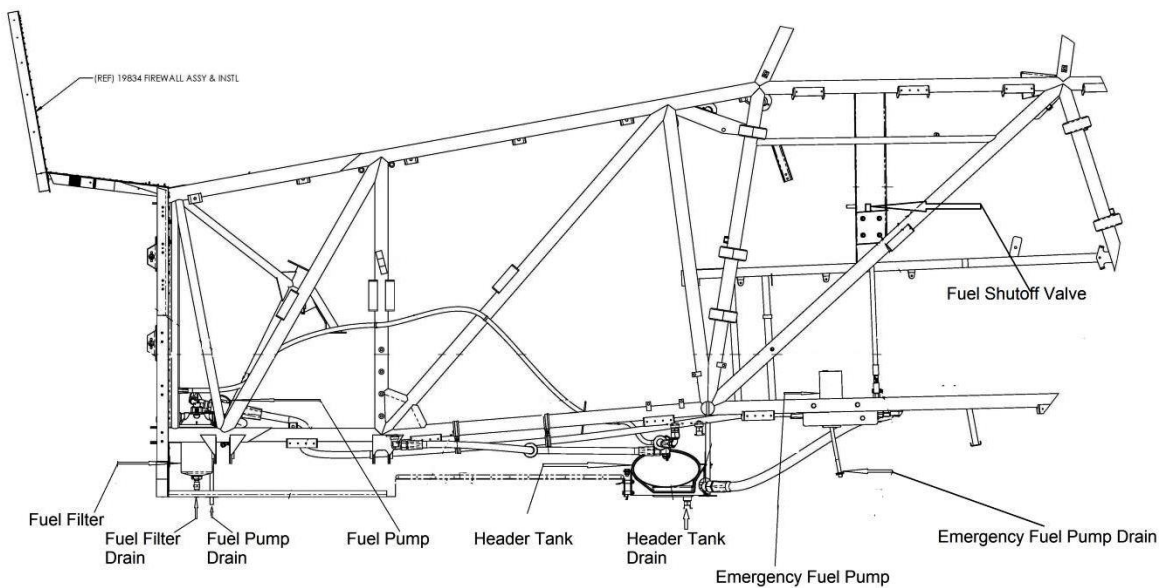


Figure 116-3: Remaining Drain Locations

**7(C). REMOVE EXISTING FUEL FILTER BOWL TO INSTALL NEW
FILTER ELEMENT KIT PER INSTRUCTION IN SECTION 7.C.1.**

Figure 116-4: Fuel Filter Bowl .

7.C.1 INSTRUCTIONS:

- a. Remove lockwire and unscrew filter bowl.
- b. Remove used element.
- c. Remove O-ring and flat seals from filter head and inside of bottom of the filter bowl.
- d. Install new seals P/N: 1743629-01 on the nipple of the filter head and retainer in the filter bowl.
- e. Install new filter element P/N: 1743645-01.
- f. Install new O-ring P/N: 034921-01.
- g. Re-install filter bowl and torque to 130± 20 inch pounds.
- h. Secure filter head to filter bowl with lockwire.

7.C.2 REFUEL AIRCRAFT AND CHECK FOR LEAKS**7.C.3 RECONNECT BATTERIES****7.C.4 VERIFY RED FUEL FILTER “PRESS TO TEST” SWITCH OPERATIONAL****7.C.5 PROCEDURE**

- a. Press the red fuel filter “Press To Test” switch and verify that the annunciation light on the left hand instrument panel, labeled “Fuel Filter Bypass, turns on.

7(D). VERIFY FUEL PUMP OPERATION AND DE-AERATE THE FCU

7.D.1 PROCEDURE

- a. Turn airframe fuel shutoff valve to “ON” position. Turn main fuel pump on and observe operation in green range on MVP-50T. Observe fuel filter, fuel pump, and all hoses/adapters for leaks. Make corrections as necessary.
- b. Access the engine maintenance manual 0983402.
- c. Continue to Chapter 73-10-03 and page 202 and accomplish step 11; De-aerate the FCU.
- d. Perform engine run test and power plant performance check per Engine Maintenance Manual No. 0983402, Chapter 71-00-00 and pages 501-511.

8.0 RECORD OF COMPLIANCE

Make appropriate entry in airplane maintenance records as follows:

“Thrush Service Letter SL-AG-116 Rev. IR complied with at _____
total hours on aircraft.

(Name & Certificate #)

(Signature)

(Date)

9.0 RESPONSE CARD

The final step in compliance with this Service Bulletin is to complete and return the compliance card on the next page. It may be mailed, faxed, or scanned and e-mailed.

FAX to: Ed Rusk 229-439-9790

E-mail to: Ed Rusk erusk@thrushaircraft.com

-Service Bulletin SL-AG-116 Rev. IR Compliance Report

Aircraft S/N:	_____	Aircraft Owner:	_____
Aircraft Registration #	_____	Address of Owner:	_____
Airframe total time:	_____	City & State:	_____
Engine total time:	_____	Physical location:	_____
Date of Compliance	_____		_____
Complied with by:	_____	Certificate #:	_____
Signature:	_____		

PLEASE RETURN THIS REPORT ONLY AFTER REPAIR IS MADE

This response card may be mailed, faxed to (229) 439-9790, or e-mailed to erusk@thrushaircraft.com.

Fold, Tape & Mail (Do Not Staple) **Don't forget postage**

Return Address

THRUSH AIRCRAFT INC.
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Albany, GA 31721