



A I R C R A F T

SERVICE LETTER

SL-AG-137

Initial Release: 07/10/2024

Air Barrier Filter Inspection

Affected Aircraft Models	Serial Number Range
S2R-510	ALL

A handwritten signature in black ink, appearing to read "David Yarbrough", written over a horizontal line.

David Yarbrough
Director of Engineering

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LOG OF REVISIONS

NOTE: Reformatting and correction of typographical errors is not considered revision.

Rev.	Page	Description of Revision	By:
IR	All	New Document Initial Release.	T. Surratt 07/10/2024

1. PURPOSE/REASON FOR PUBLICATION

Thrush has been notified by one or more operator(s) of the air barrier filter becoming deformed during installation. This Service Letter acts as a notification to all 510 Series aircraft operators who recently purchased new 21416T007 barrier filters from Thrush or a Parts Distributor.

2. SCOPE/COMPLIANCE

This Service Letter contains the instructions for the inspection of the air barrier filter to ensure that there is no damage nor deformation.

3. HOW TO ACCESS

At the forward, lower side of the aircraft, remove the screws from the filter panel door then carefully lower. (Reference Figures 3.1 & 3.2)

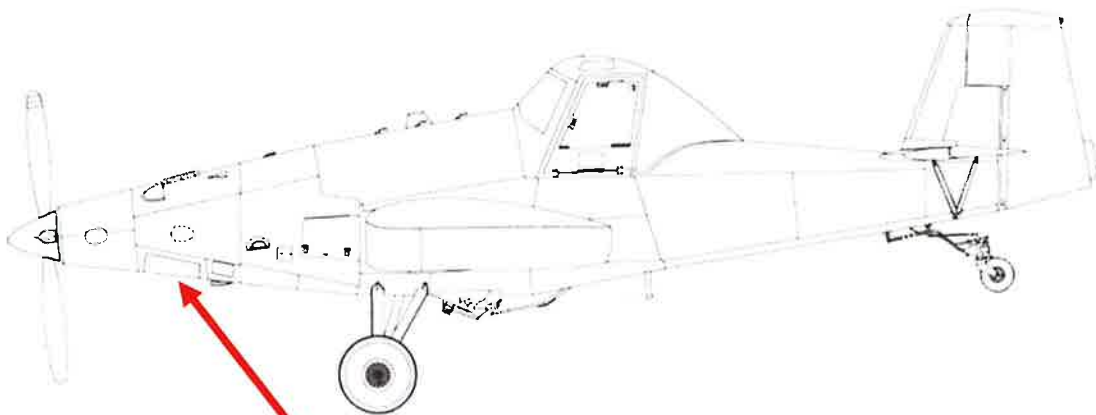


Figure 3.1



Figure 3.2

4. INSPECTION INSTRUCTIONS

1. Carefully remove the air barrier filter.
2. Visually inspect the air barrier filter for damage or deformation.

5. METAL SCREEN REMOVAL INSTRUCTIONS

1. Bring the air barrier filter to a designated work surface. (Reference Figure 5a)



Figure 5a

2. Using pliers or a similar tool, carefully pull at one corner of the metal screen until that portion of the metal screen separates from the air barrier filter. (Reference Figure 5b)

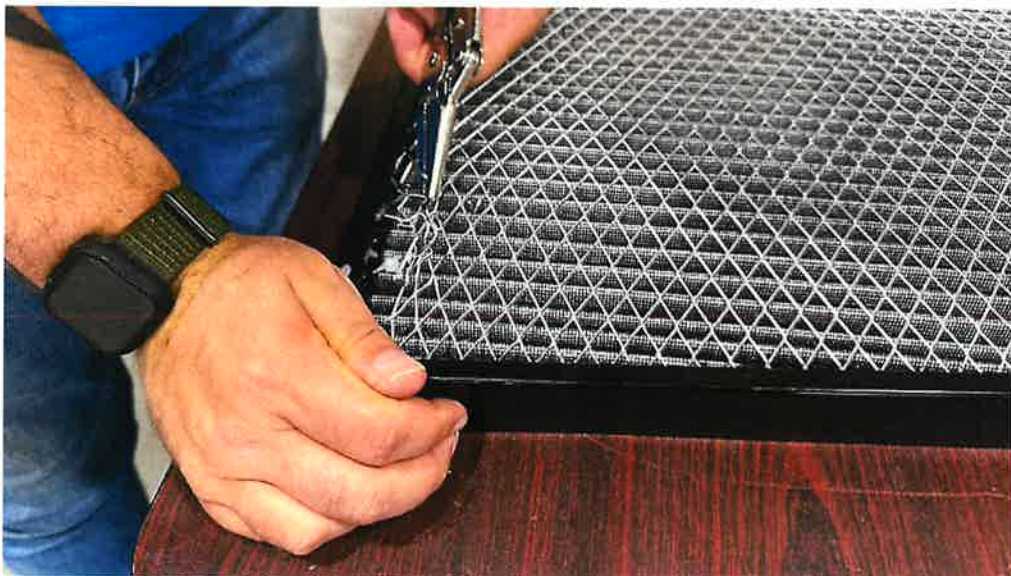


Figure 5b

3. Continue to separate the metal screen from the air barrier filter until the metal screen is completely separated and can be removed.

NOTE: Ensure that the metal screen is completely removed and there are no sharp remnants still in the air barrier filter. (Reference Figure 5c)

4. Inspect the air barrier filter for any foreign objects or debris (FOD) such as small pieces of silicone sealant or shards of the metal screen. (Reference Figures 5c & 5d)

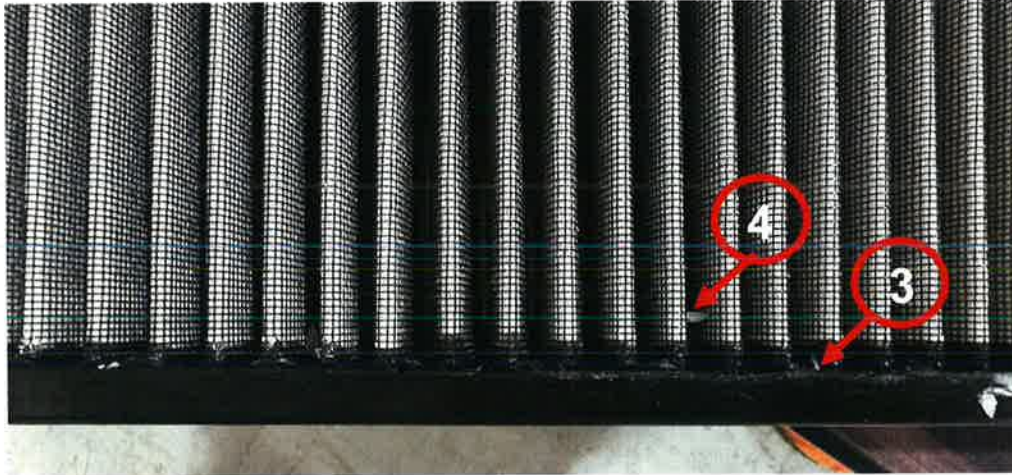


Figure 5c

5. Remove all FOD from the air barrier filter.

6. REINSTALLATION INSTRUCTIONS

1. If reinstalling a used air barrier filter, the dirty side **MUST** face outward, away from the engine intake plenum.
2. If reinstalling a new air barrier filter, insert so that the side that the metal screen was on is facing outward, away from the engine intake plenum.
3. After installation, continue to inspect, clean, and change the filter per normal processes and AMM instructions.

7. COMPLIANCE

Service Letter SL-AG-137 Rev. IR Compliance Report

Aircraft S/N:	Aircraft Owner:
Aircraft Registration #:	Address of Owner:
Airframe Total Time:	City & State:
Engine Total Time:	Physical Location:
Complied With By:	Date of Compliance:
Signature:	Certificate #:

PLEASE RETURN THIS REPORT ONLY AFTER INSPECTION IS MADE

This response card may be mailed, faxed to (229) 317-8225, or emailed to:
support@thrushaircraft.com

Fold, Tape & Mail (Do Not Staple)

Return Address:

**Thrush Aircraft LLC.
Attn: Customer Support Team
300 Old Pretoria Road
Albany, Ga 31721**