

Federal Aviation Administration

Airworthiness Concern Sheet

Date:

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Reply to:

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Make: Cessna Aircraft Company

Model / Series: Model 177 and Model 210 with

Cantilever Wing

Serial Numbers: Refer to attached Textron Aviation

Service Letters, SEL-57-06 and SEL-57-07

Reason for Airworthiness Concern: Cracking in the

Wing Carry-Thru Spar

Federal Aviation Administration (FAA) Description of Airworthiness Concern

On May 26, 2019, a Cessna Model 210M airplane suffered an in-flight separation of the right wing, resulting in a fatal accident. Preliminary investigation of the accident indicated that the wing fractured due to fatigue cracking inboard of the wing attachment lugs. Current details regarding the Australian Transportation Safety Bureau's investigation into the accident can be found online:

https://www.atsb.gov.au/publications/investigation_reports/2019/aair/ao-2019-026/

In response to the accident, Textron Aviation issued Mandatory Service Letters SEL-57-06 (Cessna Model 210) and SEL-57-07 (Cessna Model 177) to provide instructions for a detailed visual inspection and an eddy current inspection of the lower surface of the carry-thru spar. Cessna Model 177 airplanes share a common carry-thru design with the Model 210. Corrosion is a factor in the development of cracks in the carry-thru spar.

At this time, the FAA has identified no additional instances of cracking on the carry-thru spar inboard of the wing attach lugs in either the Cessna Model 177 or Cessna Model 210 airplanes. The FAA is continuing to assess the available information to determine what future corrective action may be needed.

Request for Information

The FAA is interested in receiving any information on known cracking of the carry-thru spar on Cessna Model 177 or cantilever wing Cessna Model 210 airplanes, specifically any cracking identified inboard of the wing attach lugs. This includes any cracking identified previously on the Cessna Model 177 and 210 carry-thru spars.

Additionally, the FAA is interested in any comments on the Textron Aviation Service Letters SEL-57-06 and SEL-57-07, including ease of accessing the area of concern, structure and systems in and around the area of concern that may affect the inspection, and time required to complete the inspection as detailed in the service letters. Please provide any additional comments on the published service letters that may be helpful for us to consider as part of our evaluation.

The FAA is also interested in obtaining information on the status of the fleet. Any of the following information you can provide on your Cessna Model 177 or cantilever wing Cessna Model 210 airplane would be beneficial to our evaluation:

- Total time-in-service on the airframe
- Any modifications or STCs on your airplane(s) that may affect our evaluation of this issue, including, but not limited to, vortex generators, wing cuffs, STOL kits, wing tips, gross weight increases, and add-on wing fuel tanks.
- Information detailing the usage environment in which you operate your airplane, specifically identifying severe or unusual usage.

Please provide any other information you feel may be helpful for us to consider as part of our evaluation.

This Airworthiness Concern Sheet (ACS) is intended as a means for FAA Aviation Safety Engineers to coordinate airworthiness concerns with aircraft owners/operators through associations and type clubs. At this time, the FAA has not made a determination on what type of corrective action (if any) should be taken. The resolution of this airworthiness concern could involve Airworthiness Directive (AD) action or a Special Airworthiness Information Bulletin (SAIB), or the FAA could determine that no action is needed at this time. The FAA's final determination will depend in part on the information received in response to this ACS.		
The FAA endorses dissemination of this technical information to all manufacturers and requests association and type club		
comments.		
Attachments:	Transmittal:	Response Requested By:
Service Difficulty Report		Emergency
Accident/Incident Data System	Federal Aviation Administration	(10 days)
Service Letter / Bulletin	Airplane Owners and Pilots	⊠ Alert
☐ Special Airworthiness Information	Association	(30 days)
Bulletin	Experimental Aircraft Association	☐ Information
Federal Aviation Administration or	Type Club	(90 days)
National Transportation Safety Board	Type Certificate Holder	
Safety Recommendation	Other:	
Airworthiness Directive		
Alternate Means of Compliance		
Risk Analysis		