

## Federal Aviation Administration

Safety Recommendation

Airworthiness Directive
Alternate Means of Compliance
Risk Analysis

## **Airworthiness Concern Sheet**

(30 days)

Information (90 days)

Date: FEB 0 8 2017	<b>±</b>					
Reply to:	Make: Cessna Aircraft Company					
Name: Gary D Park	Model / Series: 172/175/182/205/206/207 a	Model / Series: 172/175/182/205/206/207 and 210 wing strutted airplanes				
Title: Aerospace Engineer	Serial Numbers: Refer to attached table o	Serial Numbers: Refer to attached table or Cessna SIDs				
Office: Wichita Aircraft Certification Office						
Department: ACE-118W	Reason for Airworthiness Concer	n:				
Street Address: 1801 Airport Road	Cracks reported in the lower	Cracks reported in the lower forward cabin				
City, State, ZIP: Wichita, KS 67209		I ·				
Telephone: 316-946-4123	doorpost that supports the	doorpost that supports the wing strut				
Electronic Mail: gary.park@faa.gov						
Federal Aviation Administration (FAA) De	scription of Airworthiness Concern					
An airworthiness concern was identified during inspection of a fleet of Cessna 207 airplanes. During the inspections, an operator found cracks in the lower forward cabin doorpost, in the proximity of the wing strut attach fitting, on several airplanes. Review of Service Difficulty Reports (SDRs) identified similar reports on additional Cessna models that share common design features.  To do a visual inspection of the lower doorpost for cracks requires removal of the upholstery, heater ducts and floorboard inspection covers. Eddy current inspections may be required if a crack is suspected. Please see appropriate Supplemental Inspection Documents (SIDs) shown in the enclosed table. In addition, Textron has issued service bulletins as shown in the table.  The airworthiness concern is that wing deformations as a result of the cracks may change flight characteristics such as stalls. Although not as likely, excessive cracking may cause the wing strut to lose its support at the doopost that could result in the wing separation. Risk analyses indicate "high risk" when cracks develop.						
Request for Information (For example: Proposed replies to the FAA need to be as specific as possible. Plot The FAA is interested in receiving current flight hours on Cessna outlined in the Cessna SIDs. See the Cessna SIDs identified in the Cessna SIDs.	ease provide specific examples to illustrate your or 172/175/182/205/206/207 and 210 wing-strutted airplanes he enclosed table for the airplane model and manufacture	omments or concerns.)				
We are also interested in receiving feedback related to the ease	and time required to complete these inspections.					
This Airworthiness Concern Sheet (ACS) is intended as with aircraft owners/operators through associations and corrective action (if any) should be taken. The resolution action or a Special Airworthiness Information Bulleting FAA's final determination will depend in part on the in.  The FAA endorses dissemination of this technical information.	type clubs. At this time, the FAA has not made a on of this airworthiness concern could involve Air (SAIB), or the FAA could determine that no action formation received in response to this ACS.	determination on what type of worthiness Directive (AD) is needed at this time. The				
	Γransmittal:	Response Requested By:				
Service Letter / Bulletin Special Airworthiness Information Bulletin Federal Aviation Administration or	Federal Aviation Administration Airplane Owners and Pilots Association Experimental Aircraft Association Type Club Type Certificate Holder	☐ Emergency (10 days) ☐ Alert				

Other:

## Attachment to FAA Airworthiness Concern Sheet dated February 8, 2017

## Lower Forward Cabin Doorpost Cracks

The following are the Cessna SIDs and Service Bulletins that address this concern.

Model-Series	SID Number	Affected Models	Manual	CID Data	Camina
Service Man.	SID Nulliber	Affected Models	Manual Revision	SID Date	Service Bulletin
(Years)			Revision		Bulleun
100 (1953-62)	53-12-02	182E	1	12/1/11	SEB95-19
100 (1953-62)	53-12-02		1		
		175, 175A, 175B, 175C	1	12/1/11	None
100 (1963-68)	53-12-02	182F thru 182L, A182	1	12/1/11	SEB95-19
182 (1969-76)	53-12-01	182M thru 182P, A182, F182P	4	12/1/11	SEB95-19
182 (1977-86)	53-12-01	182Q thru 182R , F182Q	3	12/1/11	SEB95-19
R182/TR182 (1976- 86)	53-12-01	R182, FR182	3	12/1/11	SEB95-19
172 (1977-86)	53-12-01	172N (1980), 172P (all), F172N (1980), F172P (all)	3	12/1/11	SEB95-19
R172 (1977-81)	53-12-01	R172K (1980-81), FR172K (1980-81)	1	12/1/11	SEB95-19
172RG (1980-85)	53-12-02	172RG (all)	1	12/1/11	SEB95-19
200 (1960-65)	53-12-02	205,205A, 210B, 210C, 210D, 210E, U206, P206, P206A	Original	8/1/11	SEB93-5 R1 SEB95-19
200 (1966-68)	53-12-02	U206A, TU206A, U206B, TU206B, U206C, TU206C, P206A, TP206A, P206B, TP206B, P206C, TP206C	2	8/1/11	SEB93-5 R1 SEB95-19
206 (1969-76)	53-12-01	U206D, TU206D, U206E, TU206E, U206F, TU206F, P206D, TP206D, P206E, TP206E	3	8/1/11	SEB93-5 R1
206 (1977-86)	53-12-01	U206G, TU206G	3	8/1/11	SEB93-5 R1
207 (1969-84)	53-12-01	207, Т207, 207А, Г207А	1	8/1/11	SEB93-5 R1