

TITLE

FLIGHT CONTROLS - FDR FLAP POSITION WIRING INSPECTION

EFFECTIVITY**MODEL**

525B

SERIAL NUMBERS

-0478, -0479, -0482, -0486, -0488, -0492, -0496,
 -0498, -0502, -0505, -0507, -0513, -0516, -0521,
 -0528, -0534, -0537, -0539, -0544, -0546, -0553,
 -0557, -0563, -0564, -0574, -0576, -0584, -0586,
 -0595, -0597, -0608, -0617, -0619, -0622, -0627
 , -0628, -0629

The equivalent of this service document has been incorporated on production airplanes -0630 and On.

REASON

The FDR switch may have been mispinned which will cause the FDR to record an indication of the flaps at 55 degrees when the flaps are in the UP position.

DESCRIPTION

This service document provides instructions to check the FDR switch wiring for proper installation.

COMPLIANCE

RECOMMENDED. This service document should be accomplished at a scheduled maintenance period or inspection.

A service document published by Textron Aviation may be recorded as *completed* in an aircraft log only when the following requirements are satisfied:

- 1) The mechanic must complete all of the instructions in the service document, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
- 3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the *Effectivity* section of the document.
- 5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

May 19, 2021

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Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

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TOOLING

NAME	NUMBER	MANUFACTURER	USE
Multimeter		Commercially Available	To check for continuity.

REFERENCES

Cessna Model 525B Wiring Diagram

Cessna Model 525B Maintenance Manual

PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Make sure that all switches are in the OFF/NORM position.
 - C. Make sure the flaps are in the UP position.
 - D. Disconnect electrical power from the airplane.
 - (1) Disconnect external electrical power.
 - (2) Disconnect the airplane battery.
 - E. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
2. Do a continuity test on the SL026 Flap Position Switch.
 - A. Remove Panel 164AB. (Refer to the Model 525B Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
 - B. Locate and disconnect electrical connector PL022.

NOTE: Make sure the flaps are in the UP position.
 - C. Check continuity from PL022 pin 7 to airplane ground. (Refer to the Model 525B Wiring Diagram Manual, Chapter 27, Flap Control.)
 - (1) If the wire is open (no continuity to ground) the test is complete, connect electrical connector PL022 and go to step 4.
 - (2) If the wire is shorted (continuity to ground) go to step 3.
3. Check the SL026 Flap Position Switch for proper wiring and operation, correct as necessary. (Refer to the Model 525B Wiring Diagram Manual, Chapter 27, Flap Control.)
 - A. Make sure the SL026 Flap Position Switch is not activated when the flaps are in the UP position.
 - B. Make sure the wire from Switch SL026 terminal NO (Normally Open) goes to ground stud GL006.
 - C. Make sure the wire from Switch SL026 terminal C (Common) goes to PL022 pin 7.
 - D. Make sure the wire from Switch SL026 terminal NC (Normally Closed) is not connected.
 - E. Connect electrical connector PL022.
4. Install Panel 164AB. (Refer to the Model 525B Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
5. Remove the maintenance warning tags and connect the airplane battery.

6. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

NOTE: Textron Aviation recommends that compliance with all service documents is reported to a maintenance tracking system provider.

- Complete a record of compliance. (Maintenance Transaction Report, Log Book Entry, or other record of compliance.)
- Put a copy of the completed record of compliance in the airplane logbook.
- Send a copy of the completed record of compliance to the maintenance tracking system provider used.

MATERIAL INFORMATION

Order the parts below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
LMD-4020-96LD	1	Connector Pin		As Required
MS25036-103	1	Ring Terminal		As Required

* Please contact Textron Aviation Parts Distribution for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International).

For more information, please visit the TAPD Support & Aftermarket Account Management website at <https://ww2.txtav.com/Parts/Promos/TAPD>.

Based on availability and lead times, parts may require advanced scheduling.

TITLE

FLIGHT CONTROLS - FDR FLAP POSITION WIRING INSPECTION

TO:

Cessna Model 525B Aircraft Owner

REASON

The FDR switch may have been mispinned which will cause the FDR to record an indication of the flaps at 55 degrees when the flaps are in the UP position.

COMPLIANCE

RECOMMENDED. This service document should be accomplished at a scheduled maintenance period or inspection.

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	1.5
Test and Inspection	1.0

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
LMD-4020-96LD	*	*
MS25036-103	*	*

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WARRANTY

This service document is *recommended*. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the *Labor Hours* and *Material Availability* sections of this document.

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Eligibility: Airplanes identified within the serial number effectivity of this service document must have active Airframe warranty coverage on the original issue date of this document and the coverage must be active on the day the work is accomplished.

Parts Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities, operators, or other maintenance facilities may submit a claim for the parts required to accomplish this service document as defined in the *Material Availability* section of this document.

Labor Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities rated to perform maintenance on the specific model of Cessna Aircraft may submit a claim for the labor necessary to accomplish this service document as defined in the *Labor Hours* section of this document.

Credit Application: After this service document has been accomplished, a claim must be submitted to Textron Aviation within 30 days of the service document completion. Claims for compliance of this service document are to be filed as a W4 type claim.

Please submit your claim form online at ww2.txtav.com/Parts or email the completed Textron Aviation Claim Form to warranty@txtav.com. If submitted on-line a Return Authorization will be provided. If a paper claim is submitted your claim will be entered into the system and a Return Authorization will be sent to you.

The Return Authorization must accompany any required return parts (see *Material Availability*), to the point of purchase.

Parts to be returned to Textron Aviation Parts Distribution should be forwarded to:

Textron Aviation Parts Distribution
Warranty Administration
285 South Greenwich Road
Bldg B89, Docks 1-4
Wichita, KS 67206
USA

Expiration: May 19, 2023 (after this date the owner/operator assumes the responsibility for compliance costs)

Textron Aviation reserves the right to void continued airplane warranty coverage for the parts affected by this service document until the service document is accomplished.

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at www.txtavsupport.com to register.