

TITLE

NAVIGATION - TSSE-4100 UPDATE

EFFECTIVITY

MODEL	SERIAL NUMBERS
525C (CJ4)	-0001 thru -0328 with part number 810-0052-110 TSSA-4100 software installed

The equivalent of this service letter has been incorporated on production airplanes -0329 and On.

REASON

The CLEAR OF CONFLICT and TCAS SELF TEST OK aural alerts are inhibited when 810-0250-011 TSSE-4100 is installed with the 810-0052-110 TSSA-4100 software. The updated 810-0052-012 TSSE reactivates these aural alerts.

DESCRIPTION

This service letter provides parts and instructions to make sure the correct software is installed in the External Compensation Unit (ECU) and install an ECU loaded with updated software, if necessary.

COMPLIANCE

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

A service letter 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 letter, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service letter 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 letter only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service letter only to aircraft serial numbers identified in the *Effectivity* section of the letter.
- 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 letter, service letter, 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.

APPROVAL

Textron Aviation received FAA approval for the technical data in this publication that changes the airplane type design.

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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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FLIGHT CREW OPERATIONS

No Changes

CONSUMABLE MATERIAL

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

TOOLING

No specialized tooling is required to complete this service document.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Cessna Model 525C Maintenance Manual

PUBLICATIONS AFFECTED

Cessna Model 525C Illustrated Parts Catalog

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. 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. Make sure the TSSE-4100 Software is installed.
 - A. Apply electrical power to the airplane with the airplane on ground.
 - B. Turn the BATTERY switch to ON.
 - C. Turn the AVIONICS switch to ON.
 - D. Wait approximately two minutes.
 - E. Press DATABASE on the co-pilot's cursor control panel (CCP).
 - F. Press UPR MENU on the co-pilot's CCP.
 - G. Use the MENU ADV knob on the CCP to scroll to the MAINTENANCE MAIN MENU on the co-pilot's MFD.
 - H. Use the joystick on the CCP to scroll to LRU INDEX / OPERATIONS.
 - I. Press the MENU ADV knob to select LRU INDEX/ OPERATIONS.
 - J. Use the joystick on the CCP to tab right until the TSS is listed. Use the joystick to scroll down to the TSS.
 - K. Press the MENU ADV knob to select the TSS.
 - L. Make sure RETRIEVING SOFTWARE PART NUMBER and LISTENING is displayed on the right MFD and wait approximately one minute.
 - M. Once displayed, make sure the co-pilot's MFD looks similar to below.

A109665

SOFTWARE PART NUMBERS TSS	
TYPE NO:TSSA-4100	CPN:810-0052-100
MFR:OEFDO	DO-178B LEVEL B,D
TSO:C119C	ETSO:C119C
SEE INST MAN FOR ADD TSO/ETSO INFO	
	DMF:01AUG14
CRC32-SYSIO:	4BDBC454
CRC32-TRAFFIC:	084251F0
ROCKWELL COLLINS, INC.	
CEDAR RAPIDS, IA-52498 USA	
MANUFACTURED: CEDAR RAPIDS, IA	
ECU-3000 DATA	HW PN:822-1200-803
TSSE-4100 DISP PN:	810-0250-011
CRC32-TSSE-4100:	C2F9F071
TSSE-4100 DMF:	12AUG14
MODE-S ADDRESS:	XXXXXXXX
TSS HW PN:822-2132-001	SN:XXXXX
SERVICE BULLETINS:01,02,03,04,07,08	

- N. Make sure that the CPN in the top row is 810-0052-110.
- (1) If the TSSA CPN is not 810-0052-110, go to Step 3.
 - (2) If the TSSA CPN is 810-0052-110, do the steps that follow.
 - (a) Make sure that the TSSE-4100 DISP PN or LOADED CONFIG PN is 810-0250-012.
 - 1 If the TSSE-4100 DISP PN is 810-0250-012, go to Step 3.
 - 2 If the TSSE-4100 DISP PN is not 810-0250-012, do the steps that follow.
 - a Remove the existing ECU-3000 and return it to Textron Aviation and exchange it for an upgraded unit. (Refer to the Model 525C Maintenance Manual, Chapter 34, Collins ECU-3000 External Compensation Unit (TSS-4100) - Removal/Installation.)
 - b Install an upgraded 822-1200-803 ECU-3000. (Refer to the Model 525C Maintenance Manual, Chapter 34, Collins ECU-3000 External Compensation Unit (TSS-4100) - Removal/Installation.)
 - c Load Mode S address into the ECU.
3. Remove the maintenance warning tags and connect the airplane battery.
4. 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

It may be necessary to order the part below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
822-1200-803	1	ECU-3000	Same	Return to Textron Aviation for exchange.

The existing ECU-3000 may be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS 67206, USA, and exchanged for an upgraded unit. Due to limited availability, advance scheduling is required, please expedite the return of the removed part.

* 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). Send email to: parts@txtav.com.

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

In cases where the required part(s) are approved as exchange, order the exchange part and, upon completion, expedite the return of the removed part to avoid return penalties. Contact the Textron Aviation Parts Distribution Sales Desk for availability of exchange parts.

TITLE

NAVIGATION - TSSE 4100 UPDATE

TO:

Citation CJ4 Owner

REASON

The CLEAR OF CONFLICT and TCAS SELF TEST OK aural alerts are inhibited when TSSE-4100-011 is installed with the TSSA-4100-110 software. The updated 810-0052-012 TSSE reactivates these aural alerts.

COMPLIANCE

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

LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Inspection	0.5
Modification	2.0

MATERIAL AVAILABILITY

It may be necessary to order the part below to install this modification.

PART NUMBER	AVAILABILITY	COST
822-1200-803	*	*

The existing ECU-3000 may be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS 67206, USA, and exchanged for an upgraded unit. Due to limited availability, advance scheduling is required, please expedite the return of the removed part.

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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.

August 18, 2020

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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: August 18, 2022 (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.