

TITLE

INDICATING/RECORDING SYSTEMS - MDT-3110 (MAINTENANCE DATA TABLES) UPDATE

EFFECTIVITY

MODEL	SERIAL NUMBERS
525C (CJ4)	-0001 thru -0356 airplanes equipped with an 822-1863-577 RIU-4010

The equivalent of this service document has been incorporated on production airplanes -0357 and On.

NOTE: This service bulletin must be incorporated prior to or in conjunction with SB525C-23-03, *Communications- ATN-B1 Controller Pilot Link Data Link Communications (CPDLC) Installation*.

REASON

There is an unnecessary equation in the maintenance data tables that may cause a nuisance fault when a part number 822-1863-577 ATN-B1 RIU is installed.

DESCRIPTION

This service bulletin provides instructions to update the MDT-3110.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

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.

APPROVAL

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

August 12, 2021

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FLIGHT CREW OPERATIONS

No Changes

CONSUMABLE MATERIAL

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

TOOLING

NAME	NUMBER	MANUFACTURER	USE
Flash Memory Drive	Commercially Available	SanDisk or Kingston	To upload software

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

None

PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

1. Connect the airplane battery.
2. Apply external electrical power to the airplane.
 - A. Adjust the electrical power to 29.0 Vdc, +0.5 or -0.5 Vdc.
 - B. Set the BATTERY switch on the ELECTRICAL POWER switch panel in the cockpit to the ON position.
 - C. Set the AVIONICS switch on the ELECTRICAL POWER switch panel in the cockpit to the ON position.
3. Load the maintenance diagnostic computer software.
 - A. Go to the Citation Service Center Technicians Home Page.
 - B. Click on the CJ4 MDT Software folder located under the Technical Links section.
 - C. Copy the 810-0042-202 Maintenance Diagnostic Table folder to a flash memory drive.

NOTE: The 810-0042-202 Maintenance Diagnostic Table file can be downloaded from the Collins Aerospace Portal or the Citation Service Center Technicians page.

- D. Insert the flash memory drive into the DBU-5000.
- E. Push the IDX button on the CDU (control display unit).
- F. Push the MCDU MENU LSK (line select key).
- G. Push the DBU LSK.
- H. Push the AVAILABLE LRU LSK.
- I. Push the UPDATE LIST LSK.
- J. Push the MDC LSK.
- K. Push the DQE LSK.
- L. Wait for the 810-0042-202 Maintenance Diagnostic Table software to load.
- M. Make sure the CDU displays MDC DQE FILES 100% LOAD COMPLETE.

- N. Make sure that the software loaded correctly.
- (1) Push the DATABASE button on the cursor control panel.
 - (2) Push the UPR MENU button.
 - (3) Turn the MENU ADV knob to go to the MAINTENANCE MAIN MENU.
 - (4) Push the UPR MENU button.
 - (5) Move the joystick to select CONFIGURATION DATA.
 - (6) Push the PUSH SELECT knob.
 - (7) Move the joystick to select MDC VERSION INFORMATION.
 - (8) Push the PUSH SELECT knob.
 - (9) Move the joystick to the right to move to PAGE 2/3.
 - (10) Make sure that the information that follows is displayed:
 - TYPE: MDT-3110
 - CPN: 810-0042-202
 - FAA TSO C113
 - (11) Push the DATABASE button.
4. Do the check of the maintenance diagnostic computer module.
- A. Push the DATABASE pushbutton switch on the CCP.
 - B. Push the UPR MENU or the LWR MENU pushbutton switch on the CCP.
 - (1) Make sure that the DATABASE MENU shows on the pilot's MFD.
 - C. Use the DATA knob on the CCP and highlight MAINTENANCE MAIN MENU.
 - (1) Push the ESC pushbutton switch.
 - D. Use the joystick on the CCP and highlight MDC SETUP.
 - (1) Push the PUSH SELECT button.
 - E. Highlight the SET AIRCRAFT IDENTIFICATION selection on the MDC SETUP MENU.
 - (1) Push the PUSH SELECT button.
 - (2) Enter the airplane identification into the MDC.
 - F. Push the ZOOM - pushbutton switch on the CCP to go back to the MDC SETUP page.
 - G. On the MDC SETUP page, make sure that the UTC time and the date are correct on the airplane clock.
 - H. Push the ZOOM - pushbutton switch on the CCP to go back to the MAINTENANCE MENU.
 - I. Set the AVIONICS switch on the ELECTRICAL POWER switch panel to the OFF position.
 - J. Set the BATTERY switch on the ELECTRICAL POWER switch panel to the OFF position.

CAUTION: Disconnect the external electrical power unit when not in use to prevent an accidental discharge of the battery.
 - K. Disconnect external electrical power from the airplane.
 - L. Disconnect the airplane battery.

5. 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

The software that follows is required for the installation of this service bulletin.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
810-0042-202	1	Maintenance Diagnostic Table	810-0042-201	Download per the instructions in Step 3

* Please contact your Regional Textron Aviation Parts Distribution Customer Support Team 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.

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TO:

Citation CJ4 Owner

REASON

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COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

LABOR HOURS**WORK PHASE**

Modification

LABOR-HOURS

As Required

MATERIAL AVAILABILITY**PART NUMBER**

810-0042-202

AVAILABILITY

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COST

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WARRANTY

None

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.

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