TITLE
NAVIGATION - 822-2189-100 GPS-4000S SB15 UPDATE

EFFECTIVITY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SERIAL NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>525C (CJ4)</td>
<td>-0267 thru -0278</td>
</tr>
</tbody>
</table>

REASON
The GPS-4000S may experience a permanent lockup during initiation if input power fluctuates, fail to re-acquire EGNOS satellites if the signal lock is temporarily lost, or have a larger User Range Accuracy (URA) in non-SBAS position fix.

NOTE: The software anomalies described here are only present in the 822-2189-100 GPS-4000S software load. If your GPS-4000S part number does not end in -100 this service letter does not apply to your airplane.

DESCRIPTION
This service document provides instructions to install an updated GPS-4000S.

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.
TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Cessna Model 525C 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. Disconnect electrical power from the airplane.
      (1) Disconnect the airplane battery.
      (2) Disconnect external electrical power.
   D. 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. Remove the 822-2189-100 GPS Receiver(s). (Refer to the Model 525C Maintenance Manual, Chapter 34, Collins GPS-4000S Global Position System (GPS) Unit - Removal/Installation.)

3. Send the removed 822-2189-100 GPS Receiver(s) to Textron Aviation.

   NOTE: Contact the Textron Aviation Parts Distribution Repair Team to schedule your unit at citationrepair@txav.com available 8:00 - 4:30 CST weekdays. Advance notification and coordination is required for Textron Aviation Parts Distribution Repair Team to effectively schedule units, ship to supplier and arrange return. A Customer Repair Request Form is available online at www2.txav.com/Parts that is required to ship with every repair. The optimal turn time for the supplier supporting this service document is 15 days. The process may take longer due to the influx of ADS-B Out upgrades.

4. Install one or two 822-2189-100 GPS Receiver(s). (Refer to the Model 525C Maintenance Manual, Chapter 34, Collins GPS-4000S Global Position System (GPS) Unit - Removal/Installation.)

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 Camp Systems International.
      • 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: Camp Systems International Incorporated, 8201 East 34th Street North, Building 1100 Suite 1101 Wichita, KS 67226.

NOTE:
MATERIAL INFORMATION

Order the kit/parts below to install this modification.

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>KEY WORD</th>
<th>OLD P/N</th>
<th>INSTRUCTIONS/ DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>822-2189-100</td>
<td>1</td>
<td>GPS Receiver</td>
<td>822-2189-100</td>
<td>Return to Textron Aviation for upgrade</td>
</tr>
<tr>
<td>(w/SB15)</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

* 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.
TITLE

NAVIGATION - 822-2189-100 GPS-4000S SB15 UPDATE

TO:

CJ4 Aircraft Owner

REASON

The GPS-4000S may experience a permanent lockup during initiation if input power fluctuates, fail to re-acquire EGNOS satellites if the signal lock is temporarily lost, or have a larger User Range Accuracy (URA) in non-SBAS position fix.

COMPLIANCE

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

LABOR HOURS

<table>
<thead>
<tr>
<th>WORK PHASE</th>
<th>LABOR-HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modification</td>
<td>2 Hours Per GPS</td>
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</tbody>
</table>

MATERIAL AVAILABILITY

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>AVAILABILITY</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>822-2189-100 (w/SB15)</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

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

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.
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: January 22, 2021 (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.