

TITLE

NAVIGATION - CONFIGURATION OF RS-232 FOR GPS CONNECTION TO ELT

EFFECTIVITY**MODEL**

172S

SERIAL NUMBERS172S12745, 172S12747 thru 172S12752,
172S12755, 172S12756, 172S12758**REASON**

Some airplanes may not have had the RS-232 correctly configured to provide GPS information to the ELT 1000.

DESCRIPTION

This service document provides instructions to configure RS-232 Channel 3 within the G1000.

COMPLIANCE

RECOMMENDED. This service document should be accomplished at the next 100-hour or 12-month (annual-type) 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

No reference manuals are necessary to complete this service document.

March 23, 2022

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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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PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Remove the gust lock.
 - C. Make sure that all switches are in the OFF/NORM position.
 - D. Pull the MFD and PFD circuit breakers:
 - PFD Circuit Breaker on ESS BUS.
 - PFD Circuit Breaker on AVN BUS 1.
 - MFD Circuit Breaker on AVN BUS 2.
 - E. Connect external electrical power to the airplane.
2. Configure the RS-232 CHNL 3 OUTPUT as follows:
 - A. Put the MASTER BATT switch to ON.
 - B. Put the AVIONICS 1 and 2 switches to ON.
 - C. Push and hold the ENT key on the PFD and at the same time, push in both PFD Circuit Breakers.
 - (1) When INITIALIZING SYSTEM message appears, release the ENT key.
 - D. Push and hold the ENT key on the MFD while you engage the MFD circuit breaker.
 - E. Release the ENT key when the INITIALIZING SYSTEM shows on the MFD.
 - F. If applicable, when asked to update user settings select "NO" and press the ENT Softkey.
 - G. Use the small and large FMS Knobs go to the SERIAL CONFIGURATION page in the GIA 64 Group Pages.
 - H. Press the ENT Softkey.
 - I. Make sure that the OUTPUT SET column for the RS-232 CHNL 3 is set to AVIATION 1.
 - (1) If the RS-232 CHNL 3 OUTPUT is set to AVIATION 1, Go to Step I.(1)(a).
 - (a) Exit configuration mode and power down aircraft.

NOTE: This service document cannot be completed if the RS-232 Channel 3 is not OFF. If RS-232 Channel 3 is anything other than OFF, this means the channel is being used for something else.

- (2) If the RS-232 CHNL 3 is not set to AVIATION 1, Go to Step 3.
3. Using the small FMS Knob, select AVIATION 1 from the listed selections.
4. Press the SET ACTV Softkey on the PFD.
5. Make sure the fields in the OUTPUT ACTIVE columns for the RS-232 CHNL 3 now reads AVIATION 1.

NOTE: Make sure that AVIATION 1 is displayed in the OUTPUT ACTIVE Column for CHNL 3 in the RS-232 Field. The messages, Configuration in process and Configuration saved. Restarting LRU..." may briefly appear and extinguish after pressing the SET ACTV Softkey.
6. Using the large FMS Knob, scroll back to the SYSTEM Page Group.
7. Press the UPDT CFG and ENT Softkeys to update the CONFIG MODULE.
8. Using the PFD FMS Knobs, scroll to CONFIGURATION MANAGER page, and press the CONFIRM CFG Softkey.

9. Press the ENT Softkey and observe the update process.
10. Press the ENT Softkey to acknowledge completion.
11. Put the AVIONICS 1 and 2 then MASTER BATT switches to OFF.
12. Remove external electrical power.
13. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

MATERIAL INFORMATION

No parts are required to complete this service document.

TITLE

NAVIGATION - CONFIGURATION OF RS-232 FOR GPS CONNECTION TO ELT

TO:

Cessna Model 172S Aircraft Owner

REASON

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COMPLIANCE

RECOMMENDED. This service document should be accomplished at the next 100-hour or 12-month (annual-type) inspection.

LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Software Configuration	0.5

MATERIAL AVAILABILITY

No part are required to complete this service document.

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 W3 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: March 23, 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.