

TITLE

LIGHTS - LED NAV/ANTI-COLLISION LIGHT WIRING MODIFICATION

EFFECTIVITY**MODEL**

208B

SERIAL NUMBERS208B5000 thru 208B5504, 208B5507 thru
208B5569, 208B5575 thru 208B5603

The equivalent of this service bulletin has been incorporated on production airplanes 208B5604 and On.

REASON

Field reports indicate that the magnetometer is experiencing Red-X situations. It was found that the Red-X was caused by the LED Nav/Anti-Collision Lights. Removal of the ground shield eliminates the interference with the magnetometer.

DESCRIPTION

This service bulletin provides parts and instructions to remove a ground shield from the wiring for the LED NAV/Anti-Collision Light.

COMPLIANCE

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

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

March 25, 2020

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FLIGHT CREW OPERATIONS

No Changes

CONSUMABLE MATERIAL

You must use the consumable materials that follow, or their equivalent, to complete this service document.

NAME	NUMBER	MANUFACTURER	USE
Sealant	U470545 Type XIV, Class B (2.5 ounce Simkit)	Textron Aviation Parts Distribution	To seal the light assembly.
AC-350	Type XIV, Class B	Commercially Available	To seal the light assembly.
WS-8020RC	Type XIV, Class B	Commercially Available	To seal the light assembly.

TOOLING

NAME	NUMBER	MANUFACTURER	USE
Heat Gun	Commercially Available		To shrink heat shrink tubing and end caps.
Micro-Ohmmeter	Commercially Available		To check bond after light assembly installation.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Cessna Model 208/208B Maintenance Manual

Cessna Model 208 Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current. Refer to www.txtavsupport.com.

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 external electrical power.
 - (2) Disconnect the airplane battery.
 - 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 LED NAV/Anti-Collision Light (FL003 Left, FR003 Right). (Refer to the Model 208/208B Maintenance Manual, Chapter 33, LED NAV/Anti-Collision Lights - Removal/Installation.)
3. (Refer to Figure 1, Detail A.) Remove the S2562-2-15.00 Tubing between PL012 (Left), PR012 (Right) Electrical Connectors and the S2034-1 Mount.

4. (Refer to Figure 1, View A-A.) Remove the terminal ends from the GL001 (Left) and GR001 (Right) Ground Studs on the 2622195-1 (Left), 2622195-2 (Right) Spar Assemblies.
 - A. Install the removed hardware on the ground studs and tighten.

NOTE: It is not necessary to remove the ground stud. However; if the ground stud is removed, any bare metal must be treated with color chemical film (Alodine) and primer.
5. Cut the shielded wire to remove the terminal end that was removed from the GL001 (Left), GR001 (Right) Ground Studs.
6. Install the TC4001 End Cap on the end of the shielded wire. (Refer to the Model 208/208B Maintenance Manual, Chapter 20, Bonding and Grounding - Maintenance Practices.)
 - A. Heat shrink the TC4001 End Cap until it has shrunk firmly around the shielded wire.

CAUTION: Protect adjacent areas from heat as the heat gun produces in excess of 250°F airflow.
7. (Refer to Figure 2, Detail A.) Install the S2562-2-15.00 Tubing between PL012 (Left), PR012 (Right) Electrical Connectors and the S2034-1 Mount.
8. Install the LED NAV/Anti-Collision Light (FL003 Left, FR003 Right). (Refer to the Model 208/208B Maintenance Manual, Chapter 33, LED NAV/Anti-Collision Lights - Removal/Installation.)
9. Remove the maintenance warning tags and connect the airplane battery.
10. 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.

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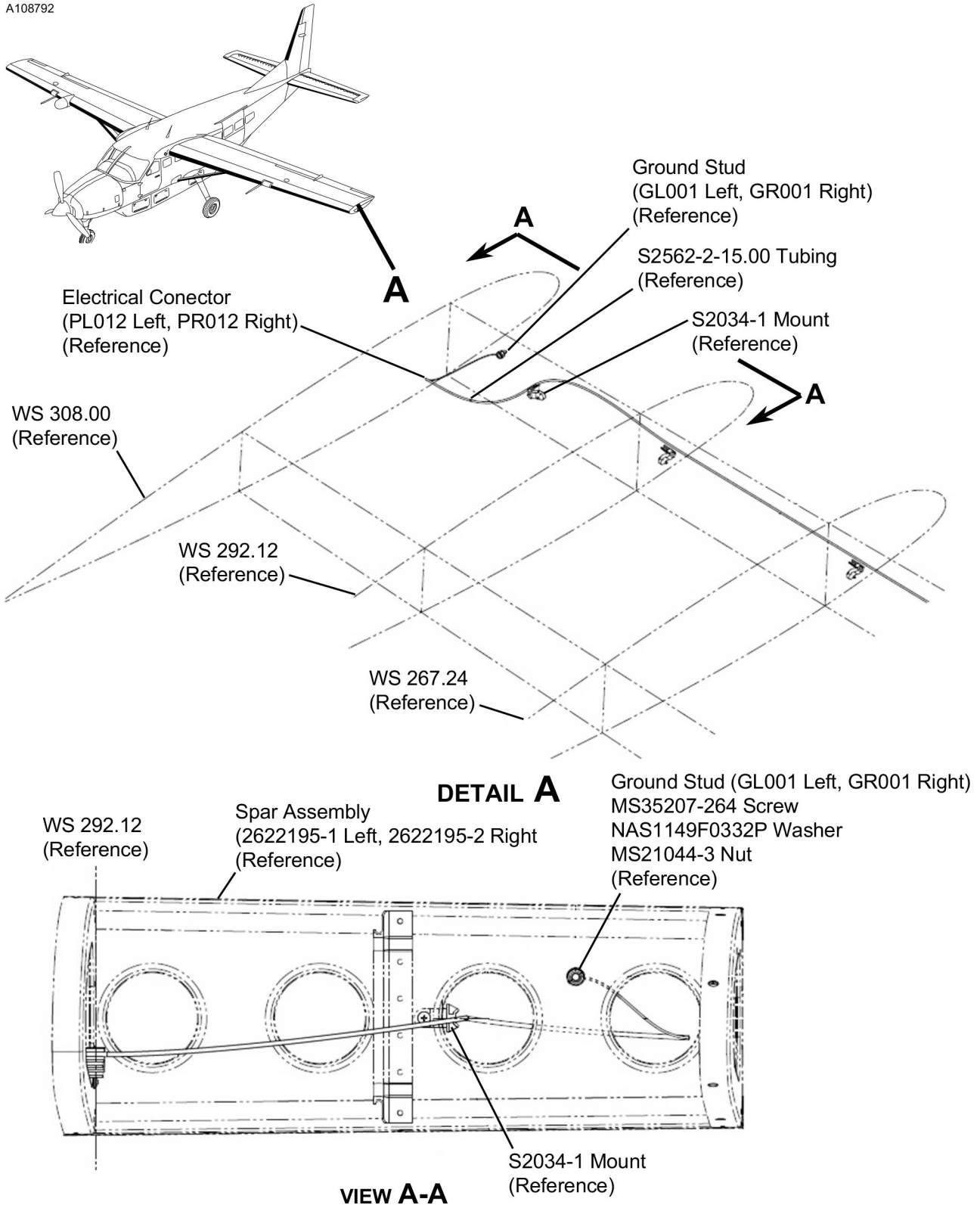


Figure 1. LED NAV/Anti-Collision Light Wiring Modification (Before Modification) (Sheet 1)

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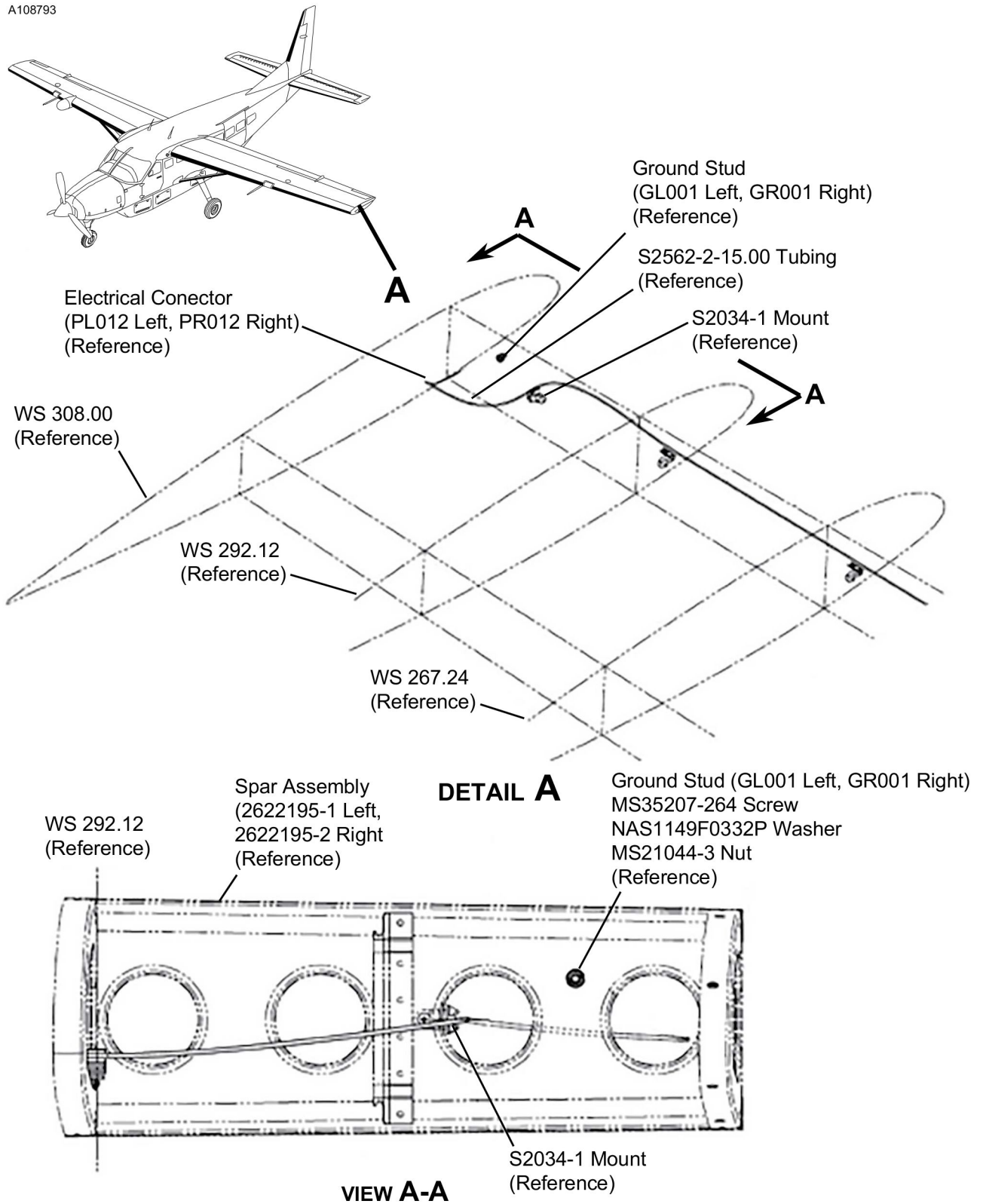


Figure 2. LED NAV/Anti-Collision Light Wiring Modification (After Modification) (Sheet 1)

MATERIAL INFORMATION

Order the part below to install this modification.

NEW P/N	QUANTITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
TC4001	2	End Cap	N/A	Install

* 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.

TITLE

LIGHTS - LED NAV/ANTI-COLLISION LIGHT WIRING MODIFICATION

TO:

Cessna Caravan Owner

REASON

Field reports indicate that the magnetometer is experiencing Red-X situations. It was found that the Red-X was caused by the LED Nav/Anti-Collision Lights. Removal of the ground shield eliminates the interference with the magnetometer.

COMPLIANCE

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

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification, Airplanes without TKS	6.0
Modification, Airplanes with TKS	8.0

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
TC4001	*	*

March 25, 2020

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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.

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: March 25, 2022

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.