

**TITLE**

COMMUNICATIONS - AIRCELL ATG ANTENNA ELECTRICAL BONDING IMPROVEMENT

**EFFECTIVITY****MODEL**

750 (Citation X+)

**SERIAL NUMBERS**-0501, -0503 thru -0516, -0518 thru -0520, -0522  
thru -0532**REASON**

The electrical bonding of the Aircell ATG Antennas can fluctuate which may cause connectivity issues.

**DESCRIPTION**

This service bulletin contains parts and instructions to add bonding clips and washers to the Aircell ATG Antenna installations.

**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.

**APPROVAL**

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

**FLIGHT CREW OPERATIONS**

No Changes

December 14, 2020

SB750-23-19  
Page 1 of 6

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**CONSUMABLE MATERIAL**

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

NAME	NUMBER	MANUFACTURER	USE
Color Chemical Film	U074093	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To protect bare material for bonding
Sealant Type XIV	U470545 (2.5 ounce Simkit)	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	For fillet sealing applications around the forward aircell antenna.
Sealant Type I	U470638 Type I, Class B-1/2, (3.5 oz Simkit)	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	For fillet sealing applications around the aft aircell antenna.

**WEIGHT AND BALANCE INFORMATION**

Negligible

**REFERENCES**

Cessna Model 750 (0501 & On) Maintenance Manual  
Citation Standard Practices Manual  
Cessna Model 750 Structural Repair Manual

**PUBLICATIONS AFFECTED**

Cessna Model 750 (0501 & On) Maintenance Manual

**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 any paint that is in the countersinks for the screws that secure the access panel 154AB to the aircraft.
3. Remove access panel 154AB. Retain the screws for later installation. (Refer to the Model 750 (0501 & On) Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
4. Remove the forward and aft Aircell ATG Antennas. Retain the screws for later installation. (Refer to Cessna Model 750 (0501 & On) Maintenance Manual, Chapter 23, Aircell ATG BroadBand Antenna - Removal/Installation.)
5. (Refer to Figure 1, Detail A.) Install the forward Aircell ATG Antenna as follows:
  - A. Prepare the 154AB access panel for electrical bonding as follows:
    - (1) Remove the nutplate ring from the antenna doubler.
    - (2) If necessary, remove the primer from the mating surface of the antenna doubler.
    - (3) If necessary, remove the primer from the mating surface of the nutplate ring.

- (4) Apply U074093 Color Chemical Film to all bare material on the doubler and nutplate ring. (Refer to the Model 750 Structural Repair Manual, Chapter 51, Protective Treatment of Metal - Description and Operation.)
- (5) Remove the spacer from the Aircell ATG antenna.
- (6) Remove the primer from the lower and upper surface of the spacer.
- (7) Apply U074093 Color Chemical Film to all bare material on the spacer. (Refer to the Model 750 Structural Repair Manual, Chapter 51, Protective Treatment of Metal - Description and Operation.)
- (8) Install six MS27039C0827 Screws in the antenna.
- (9) (Refer to Figure 1, Detail A.) Install one PO-0018-H Retainer Clip on each screw.
- (10) Apply a fay seal to the upper and lower surfaces of the spacer using U470638 Sealant. (Refer to Citation Standard Practices Manual, Chapter 20, Fuel, Weather, Pressure, and High-Temperature Sealing - Maintenance Practices.)

**NOTE:** Make sure the fay seal is thick enough to fully cover the PO-0018-H Retainer Clips without any voids in the sealant.

- (11) Install the spacer on the Aircell ATG antenna.
- (12) Install the forward Aircell ATG antenna on the aircraft.  
**NOTE:** Tighten the screws in small increments, alternating between the forward, middle, and aft and inboard and outboard screw locations (criss-cross). Installing the antenna with this method will make the sealant squeeze out equally from the antenna, for better fay seal promotion that is free of voids.
- (13) Torque the MS27039C0827 Screws. (Refer to the Citation Standard Practices Manual, Chapter 20, Torque Data - Maintenance Practices.)
- (14) Make sure there is a Type I electrical bond between the spacer and the MS27039C0827 Screws. (Refer to Citation Standard Practices Manual, Chapter 20, Electrical Bonding - Maintenance Practices.)
- (15) Make sure that there is a Type I electrical bond between the antenna doubler and the nutplate ring. (Refer to Citation Standard Practices Manual, Chapter 20, Electrical Bonding - Maintenance Practices.)
- (16) Make sure that there is a Type V electrical bond between the antenna base and the screw countersinks in the 154AB access panel. (Refer to Citation Standard Practices Manual, Chapter 20, Electrical Bonding - Maintenance Practices.)
- (17) Connect the coax cables to the antenna.
- (18) Install access panel 154AB. (Refer to the Model 750 (0501 & On) Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
- (19) Make sure that there is a Type V electrical bond between the 154 AB access panel and the airframe. (Refer to Citation Standard Practices Manual, Chapter 20, Electrical Bonding - Maintenance Practices.)
- (20) Apply a fillet seal around the base of the Aircell Antenna and spacer using U470545 Sealant.

6. (Refer to Figure 1, Detail B.) Install the aft Aircell ATG Antenna as follows:

A. Electrically bond the aft Aircell ATG Antenna as follows:

- (1) If necessary, remove the spacer from the Aircell ATG Antenna.
- (2) Using a 0.50 inch (12.7mm) bonding brush, remove the exterior finish from mating surface of each spacer mounting holes.

- (3) Apply U074093 Color Chemical Film to all bare material around each mounting hole. (Refer to the Model 750 Structural Repair Manual, Chapter 51, Protective Treatment of Metal - Description and Operation.)
- (4) Install six MS27039-0815 Screws in the antenna.
- (5) (Refer to Figure 1, Detail B.) Install one NAS1149DN816K Washer on each screw.
- (6) Apply a fay seal to the mating surface of the spacer using U470638 Sealant. Except for around the 0.50 inch (12.7mm) diameter electrical bond of each mounting hole. (Refer to Citation Standard Practices Manual, Chapter 20, Fuel, Weather, Pressure, and High-Temperature Sealing - Maintenance Practices.)
- (7) Install the spacer on the Aircell ATG antenna.
- (8) Install the aft Aircell ATG antenna on the aircraft.  
**NOTE:** Tighten the screws in small increments, alternating between the forward, middle, and aft and inboard and outboard screw locations (criss-cross). Installing the antenna with this method will make the sealant squeeze out equally from the antenna, for better fay seal promotion that is free of voids.
- (9) Torque the MS27039-0815 Screws. (Refer to the Citation Standard Practices Manual, Chapter 20, Torque Data - Maintenance Practices.)
- (10) Make sure that there is a Type I electrical bond between the Aircell Antenna and the antenna mount. (Refer to Citation Standard Practices Manual, Chapter 20, Electrical Bonding - Maintenance Practices.)
- (11) Apply a fillet seal around the base of the Aircell Antenna and spacer using U470638 Sealant. Do not seal around the spacer drain opening.

7. Remove the maintenance warning tags and connect the airplane battery.
8. 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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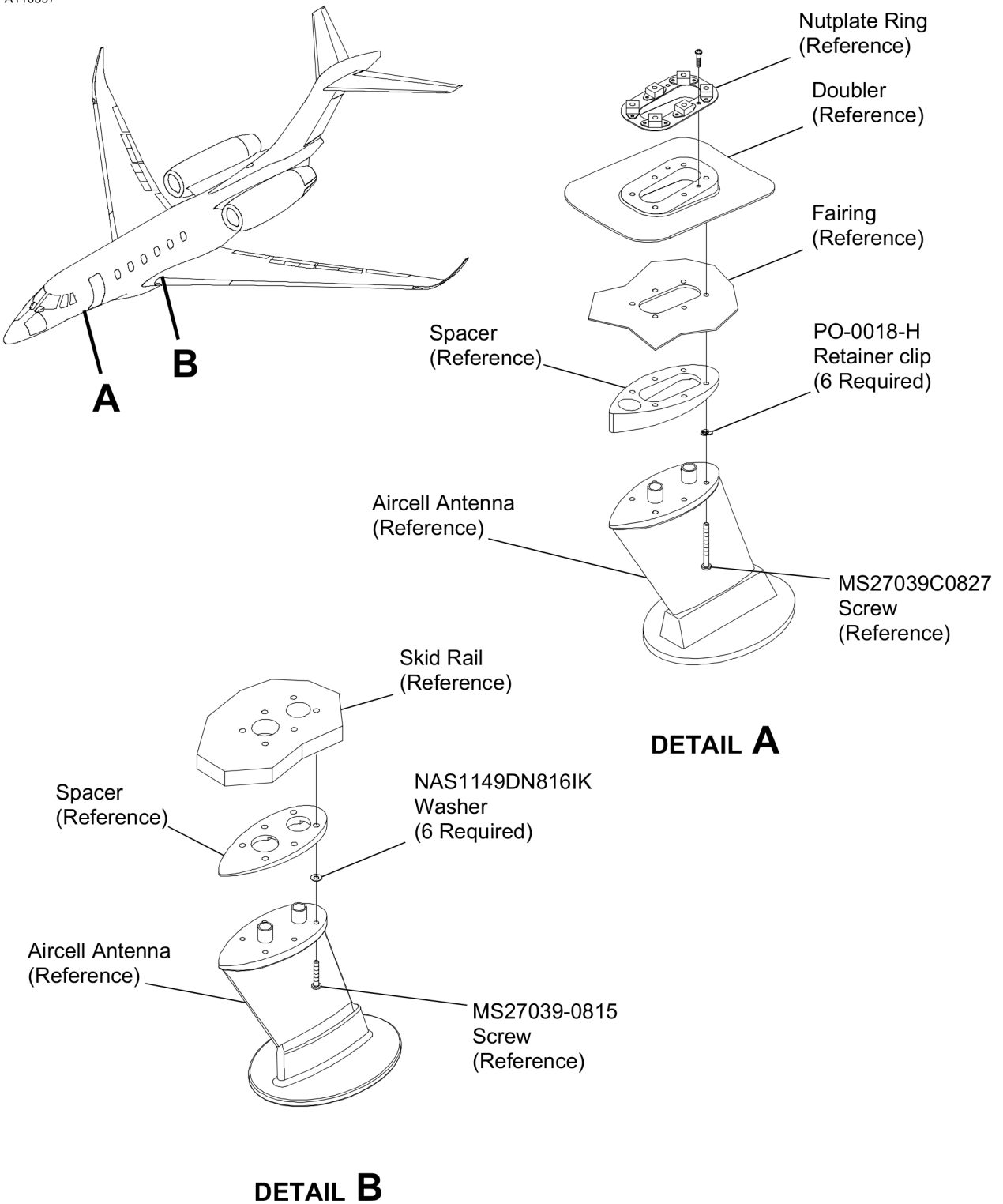


Figure 1. Aircell ATG Antenna Electrical Bonding Improvement (Sheet 1)

6710T1103  
9509T615-1  
9501T025-6

**MATERIAL INFORMATION**

Order the kit below to install this modification.

NEW P/N	QUANTITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
<b>SB750-23-19</b>	1	<b>Kit</b> , consisting of the following parts:		
PO-0018-H	6	Retaining Ring	Install	
NAS1149DN816K	6	Washers	Install	
SB700-23-19	1	Instructions		

\* 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](mailto:parts@txtav.com).

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



**TITLE**

COMMUNICATIONS - AIRCELL ATG ANTENNA ELECTRICAL BONDING IMPROVEMENT

**TO:**

Cessna Model 750 Aircraft Owner

**REASON**

The electrical bonding of the Aircell ATG Antennas can fluctuate which may cause connectivity issues.

**COMPLIANCE**

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

**LABOR HOURS****WORK PHASE**

Modification

**LABOR-HOURS**

6.0

**MATERIAL AVAILABILITY**

The kit below is required to complete this service document.

**PART NUMBER**

SB750-23-19

**AVAILABILITY**

\*

**COST**

\*

\* 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.

**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.

December 14, 2020

SB750-23-19  
Page 1 of 2

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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](http://ww2.txtav.com/Parts) or email the completed Textron Aviation Claim Form to [warranty@txtav.com](mailto: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:** December 31, 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](http://www.txtavsupport.com) to register.

