

TITLE

AUXILIARY POWER - APU BLEED DUCT REPLACEMENT

EFFECTIVITY**MODEL**

700 Citation Longitude

SERIAL NUMBERS

-0004, -0007 thru -0041

The equivalent of this service document has been incorporated on production airplanes -0042 and On.

REASON

APU bleed duct may leak due to weld failure.

DESCRIPTION

This service document provides parts and instructions to replace the APU bleed air duct.

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

NAME	NUMBER	MANUFACTURER	USE
Lubricant	U000851	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To lubricate parts.

April 22, 2021

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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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REFERENCES

Cessna Model 700 Maintenance Manual

Citation Standard Practices Manual

PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

1. Open the tailcone access door. (Refer to the 700 Maintenance Manual, Chapter 52, Service Doors - Description and Operation.)
 - A. (Refer to Figure 1, Sheet 1.) Inspect the APU Bleed Duct Assembly.
 - (1) If the 7414811-12 APU Bleed Duct Assembly is installed, no further action is required, go to step 6.
 - (2) If the 7490705-11 APU Bleed Duct Assembly is installed, go to step 2.
2. 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 batteries.
 - 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.
3. Open the tailcone access door. (Refer to the 700 Maintenance Manual, Chapter 52, Service Doors - Description and Operation.)
 - A. (Refer to Figure 1, Sheet 1.) Remove the 7490705-11 APU Bleed Duct Assembly.
 - (1) Remove and keep the seven NAS1922-0275-3 Band Clamps that attach the bleed leak detect line to the bleed duct assembly.
 - (2) Remove and keep the seven CM3857-10-1.5 Silicone Rubber Sleeves from the bleed duct assembly.
 - (3) Remove and keep the 30931-250 V-Band Coupling, discard the E-seal.
 - (4) Remove and keep the 24540-250 V-Band Coupling.
 - (5) Remove and keep the W991-40DE Coupling.
 - (6) Remove the 7414731-6 Service Air Line and discard.
 - (7) Disconnect the 7414811-7 APU Bleed Tube Assembly and cap the open ends.
 - (8) Disconnect the 7414811-8 APU Bleed Tube Assembly and cap the open ends.

CAUTION: The duct will fall when the next steps are complete unless held in place.
 - (9) Remove and keep the AN3-4A Bolt, NAS1149C0332 Washer and MS21919WCJ40 Clamp that attaches the aft end of the bleed duct assembly.
 - (10) Remove and keep two AN3-4A Bolts, NAS1149C0332R Washers and NAS1716C40K Clamp that attach the bleed duct assembly.
 - (11) Remove and keep two AN3-4A Bolts, NAS1149C0332R Washers and 7414811-5 Clamp that attach the bleed duct assembly.

- (12) Remove the bleed duct assembly from the airplane and discard.
- B. (Refer to Figure 1, Sheet 1.) Install the 7414811-12 Bleed Duct Assembly.
 - (1) Remove the protective wrap and caps from the bleed duct assembly.
 - (2) Put the 7414811-12 Bleed Duct Assembly in to position in the airplane.
 - (3) Install the kept AN3-4A Bolt, NAS1149C0332 Washer and MS21919WCJ40 Clamp that attaches the aft end of the bleed duct assembly.
 - (4) Install the two kept AN3-4A Bolts, NAS1149C0332R Washers and NAS1716C40K Clamp that attach the forward end of the bleed duct assembly.
 - (5) Install the two kept AN3-4A Bolts, NAS1149C0332R Washers and 7414811-5 Clamp that attach the forward end of the bleed duct assembly.
 - (6) Install the AS3209-230 Packing on the aft end of the bleed duct assembly.
 - (7) Install the W991-40DE Coupling. (Refer to the Citation Standard Practices Manual, Chapter 20, Bleed Air Couplings - Maintenance Practices.)
 - (8) Install the 13866-250 E-Seal with the 30931-250 V-Band Coupling and torque to the correct value as shown on the coupling. (Refer to the Citation Standard Practices Manual, Chapter 20, Bleed Air Couplings - Maintenance Practices.)
 - (9) Install the 24540-250 V-Band Coupling and torque to the correct value as shown on the coupling. (Refer to the Citation Standard Practices Manual, Chapter 20, Bleed Air Couplings - Maintenance Practices.)
 - (10) Remove the protective caps on the 7414731-6 Service Air Line and apply U000851 Lubricant to the threads and let dry for five minutes.

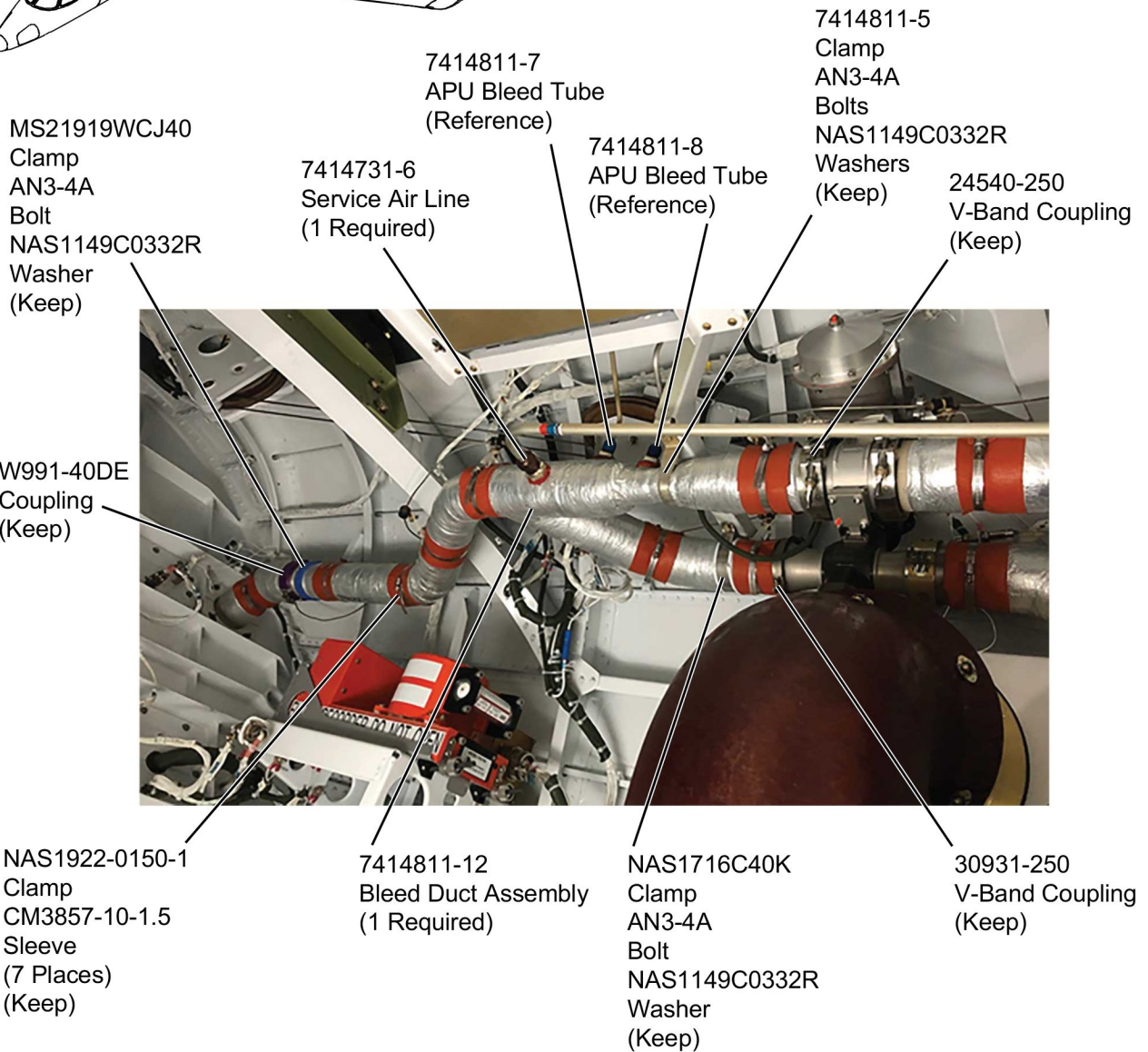
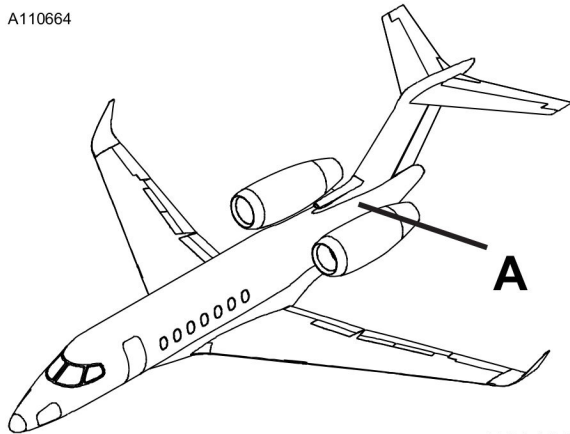
CAUTION: Do not allow the lubricant spray to contact the aluminum structure in the area.
 - (11) Install the 7414731-6 Service Air Line and torque to 270-350 inch-pounds. (Refer to the Citation Standard Practices Manual, Chapter 20, Tubing, Hose and Fittings - Maintenance Practices.)
 - (12) Remove the protective caps and connect the 7414811-7 APU Bleed Tube Assembly and torque to 100-140 inch-pounds. (Refer to the Citation Standard Practices Manual, Chapter 20, Tubing, Hose and Fittings - Maintenance Practices.)
 - (13) Remove the protective caps and connect the 7414811-8 APU Bleed Tube Assembly and torque to 100-140 inch-pounds. (Refer to the Citation Standard Practices Manual, Chapter 20, Tubing, Hose and Fittings - Maintenance Practices.)
 - (14) Install the seven CM3857-10-1.5 Silicone Rubber Sleeves and NAS1922-0275-3 Band Clamps that attach the bleed leak detect line and torque to 8-10 inch-pounds. (Refer to the Citation Standard Practices Manual, Chapter 20, Torque Data - Maintenance Practices.)
4. Remove the maintenance warning tags and connect the airplane batteries.
5. Do a bleed air coupling leak check. (Refer to the (Refer to the Citation Standard Practices Manual, Chapter 20, Bleed Air Couplings - Maintenance Practices.)
 - A. Make sure there are no leaks on or around the 7414811-12 APU Bleed Duct Assembly couplings and connections.
6. Close the tailcone access door. (Refer to the 700 Maintenance Manual, Chapter 52, Service Doors - Description and Operation.)

7. 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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DETAIL A

Figure 1. APU Bleed Air Duct (Sheet 1)

MATERIAL INFORMATION

Order the kit below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
SL700-49-01		Kit , consisting of the following parts:		
7414811-12	1	Tube Assembly		Discard old, install new
7414731-6	1	Service Air Line		Discard old, install new
13866-250	1	E-Seal		Install
AS3209-230	1	Packing		Install
SL700-49-01	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).

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.

TITLE

AUXILIARY POWER - APU BLEED DUCT REPLACEMENT

TO:

Cessna Model 700 (Citation Longitude) Aircraft Owner

REASON

APU bleed duct may leak due to weld failure.

COMPLIANCE

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

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	3
Test and Inspection	1

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
SL700-49-01	*	*

* 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).

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.

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.

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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 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: April 22, 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.