

TITLE

LANDING GEAR - INSTALLATION OF IMPROVED MAIN LANDING GEAR DOOR SEAL

EFFECTIVITY**MODEL**

700 Citation Longitude

SERIAL NUMBERS-0001 thru -0006, -0008 thru -0015, -0017 thru
-0021, -0024, -0030, -0031, -0034

The equivalent of this service document has been incorporated on production airplanes -0045 and On.

REASON

To install improved main landing gear door seals.

DESCRIPTION

This service document provides parts and instruction to install improved main landing gear door seals.

COMPLIANCE

DISCRETIONARY. This service kit can be accomplished at the discretion of the owner.

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

September 2, 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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CONSUMABLE MATERIAL

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

NAME	NUMBER	MANUFACTURER	USE
Sealant Adhesion Promoter	PR-142	PRC-Desoto 24811 Avenue Rockefeller Valencia, CA 91355-3468	For sealing applications.
Type XIV Class B2 Sealant 2.5oz. simkit (4)	U470545	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To seal access panels.
Petrolatum	VV-P-236	Commercially Available	Use as a parting agent.
Hydraulic Fluid	MIL-H-5606	Commercially Available	To use during the jacking procedure.

TOOLING

NAME	NUMBER	MANUFACTURER	USE
Main Gear Jack Pad (2)	R-3053	Tronair, Inc South 1740 Eber Road Holland, OH 43528	To put between the main gear tripod jacks and the wing jacking points.
Nose Gear Jack Pad (1)	R-1808	Tronair, Inc South 1740 Eber Road Holland, OH 43528	To put between the nose gear tripod jack and the fuselage jacking point.
Tripod Jack (Main Gear) (2)	02-7815-0110	South 1740 Eber Road Holland, OH 43528	To lift the left and the right wings.
Tripod Jack (Nose Gear)(1)	02-7827-0110	South 1740 Eber Road Holland, OH 43528	To lift the nose of the airplane.
Air Pump Manifold Kit	K-106	South 1740 Eber Road Holland, OH 43528	To supply air from one source to the three tripod jacks.
Tail Stand	03A5853-0000	Tronair, Inc South 1740 Eber Road Holland, OH 43528	To give support to the tail section.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Cessna Model 700 Maintenance Manual

Cessna Citation Standard Practices 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 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.
2. (Refer to Figure 1, Sheet 1.) Remove and discard the left and right 132629-025-00 Main Landing Gear Door Seal.
 - A. Remove all the debonded or damaged seal or sealant and clean all adhesive from the 132629-025-00 Main Landing Gear Door Seal installation and prepare the surface for sealant application. (Refer to the Citation Standard Practices Manual, Chapter 20, General Solvents/Cleaners - Maintenance Practices.)
3. Lift the airplane on jacks. (Refer to the Model 700 Maintenance Manual, Chapter 7, Lifting - Maintenance Practices.)
4. Make a form in place gasket on the left and right 7410352 Fairing.
 - A. Inspect the edge of the gear door for protrusions or sharp edges that might damage the seal as the door cycles. These anomalies are to be carefully sanded or buffed to smooth the surface and prevent damaging the form in place gasket.
 - B. Scuff the fairing sealing surface lightly to remove debris and lightly abrade the surface.

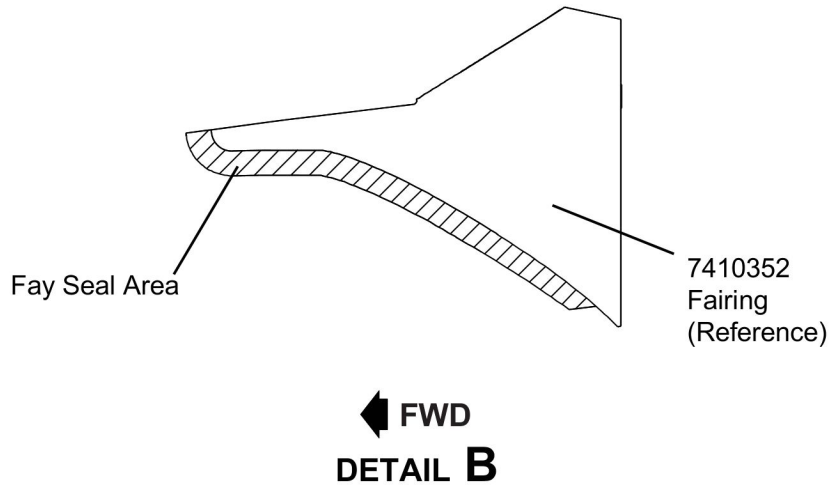
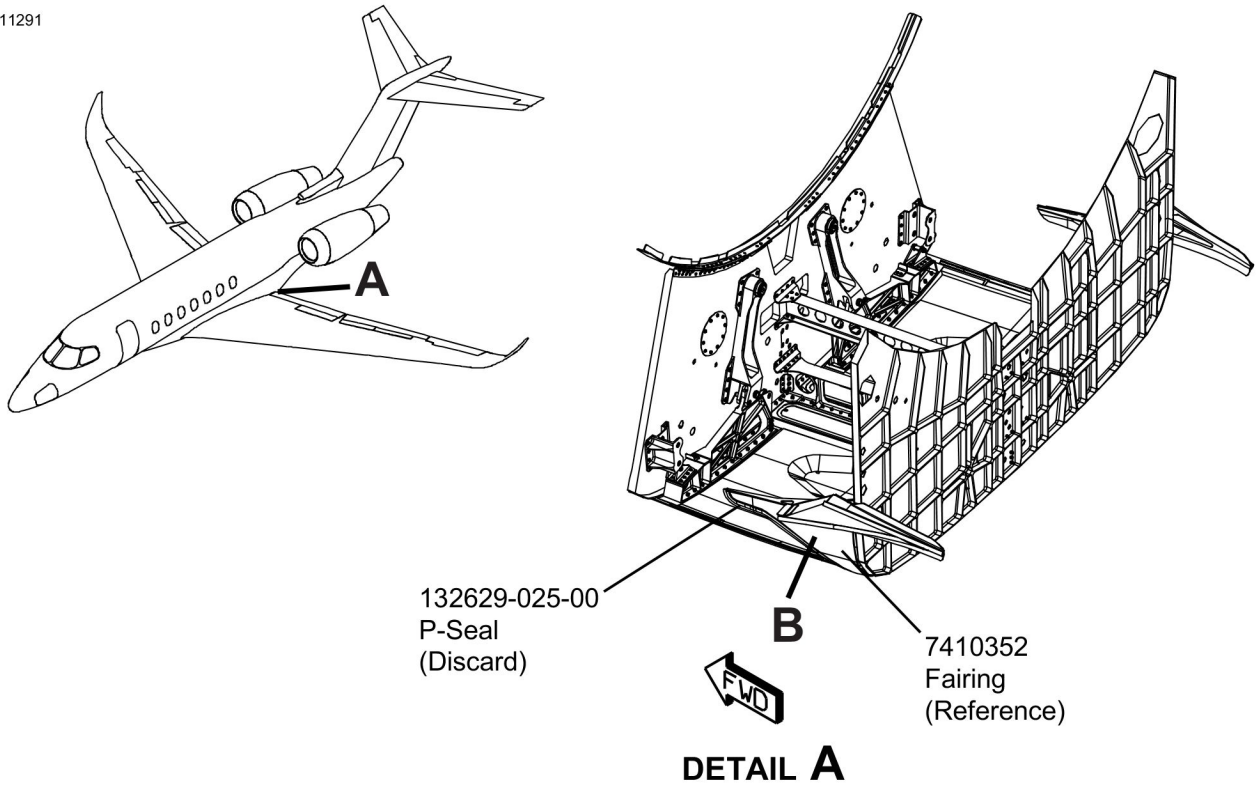
NOTE: Do not expose the composite fibers.
 - C. Mask the surrounding area with tape to capture the sealant squeeze-out and simplify cleanup.
 - D. Clean the surface with Type II Class 1 Solvent to remove any dirt, dust or debris. (Refer to the Citation Standard Practices Manual, Chapter 20, General Solvents/Cleaners - Maintenance Practices.)
 - E. Apply PR-142 Adhesion Promoter to the surface to be sealed. (Refer to the Citation Standard Practices Manual, Chapter 20, Fuel, Weather Pressure and High-Temperature Sealing - Maintenance Practices.)
 - F. Apply VV-P-236 Petrolatum as a parting agent to the left and right 7422506 Main Landing Gear Door where the faying seal will contact the door. (Refer to the Citation Standard Practices Manual, Chapter 20, Fuel, Weather Pressure and High-Temperature Sealing - Maintenance Practices.)
 - G. (Refer to Figure 1, Sheet 1.) Apply U470545 Sealant to the surface of the left and right 7410352 Fairing on the area marked as shown. The sealant should be applied in a uniform thickness at a depth that will create a gasket that fills the void between the gear door and the fairing. (Refer to the Citation Standard Practices manual, Chapter 20, Fuel, Weather, Pressure and High-Temperature Sealing - Maintenance Practices.)
 - H. Remove the maintenance warning tags on the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
 - (1) Connect the airplane batteries.
 - (2) Connect external electrical power.
 - I. Retract the landing gear and make sure the landing gear doors are fully closed. (Refer to the Model 700 Maintenance Manual, Chapter 32, Landing Gear - Adjustment Test.)
 - J. Remove excess sealant from the 7410352 Fairing and the 7422506 Main Landing Gear Door areas. (Refer to the Citation Standard Practices Manual, Chapter 20, General Solvents/Cleaners - Maintenance Practices.)
 - K. After the U470545 Sealant has fully cured, make sure the seal has a continuous contact with the 7422506 Main Landing Gear Door.

5. Extend the landing gear. (Refer to the Model 700 Maintenance Manual, Chapter 32, Landing Gear - Adjustment Test.)
 - A. Remove the VV-P-236 Petrolatum parting agent from and clean the left and right 7422506 Main Landing Gear Doors. (Refer to the Citation Standard Practices Manual, Chapter 20, General Solvents/Cleaners - Maintenance Practices.)
6. Lower the airplane and remove the jacks. (Refer to the Model 700 Maintenance Manual, Chapter 7, Lifting - Maintenance Practices.)
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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7410352

Figure 1. Main Landing Gear Door Seal (Sheet 1)

MATERIAL INFORMATION

No parts are required to complete this modification.

TITLE

LANDING GEAR - INSTALLATION OF IMPROVED MAIN LANDING GEAR DOOR SEAL

TO:

Model 700 (Citation Longitude) Aircraft Owner

REASON

To install improved main landing gear door seals.

COMPLIANCE

DISCRETIONARY. This service document can be accomplished at the discretion of the owner.

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	5.5

MATERIAL AVAILABILITY

No parts are required to complete this service document.

WARRANTY

Eligible airplanes exhibiting conditions described in this service document may demonstrate improved operation by incorporation of the work described herein. This service document is to be accomplished at the *discretion* of the owner. 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: September 30, 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.