

MANDATORY

SEL-32-08

REVISION TRANSMITTAL

This sheet transmits Revision 1 to SEL-32-08, which:

- A. Updated Effectivity Section to expand the serial range from 172S12765 thru 172S12882 to 172S12666 thru 172S13014.

NOTE: This revision replaces the original issue of SEL-32-08.

REVISION COMPLIANCE

NO EFFECT. Airplanes previously modified by this service letter are not affected.

LOG OF REVISIONS

Original Issue	September 07, 2023
Revision 1	November 14, 2023

MANDATORY**SEL-32-08****TITLE**

LANDING GEAR - MAIN LANDING GEAR BUSHING INSPECTION

EFFECTIVITY**MODEL**

172S

SERIAL NUMBERS

172S12666 thru 172S13014

REASON

To do a general visual inspection of the main landing gear bushing at the outboard bulkhead for disbonded liner and replace the bushing if the liner is disbonded. A disbonded liner can cause premature main landing gear and main landing gear outboard bulkhead bushing wear.

DESCRIPTION

This service document provides parts and instructions to do a general visual inspection of the main landing gear bushing at the outboard support fitting for disbonded liner and replace the bushing if the liner is disbonded.

COMPLIANCE

MANDATORY. This service document must be accomplished at the next 100-hour or 12-month (annual-type) inspection, whichever occurs first.

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

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

Original Issue - September 07, 2023
Revision 1 - November 14, 2023

SEL-32-08
Page 1 of 7

Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

This document contains technical data and is subject to U.S. export regulations. This information has been exported from the United States in accordance with export administration regulations. Diversion contrary to U.S. law is prohibited. ECCN: 9E991

MANDATORY**SEL-32-08**

NAME	NUMBER	MANUFACTURER	USE
Grease	ROYCO 11 MS (Moly Disulfide Grease)	Commercially available	Lubricant for landing gear and bushing.

TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Cessna Model 172 (Series 1996 and On) Maintenance 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 main 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 front seat(s) to get access to the fuselage floor. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 25, Equipment/Furnishings - Maintenance Practices.)
3. Pull up the carpet and remove the left and right floorboard access plates 231AT and 231CT. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 6, Access/Inspection Plates - Description and Operation.)
4. Remove the fuselage fairing. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 32, Main Landing Gear - Maintenance Practices, Fuselage Fairing.)
5. (Refer to Figure 1, Sheets 1 thru 3.) Do a general visual inspection of the 0541202-4 Bushing Assemblies installed in the left and right main landing gear outer support fittings.

NOTE: During the general visual inspection of the 0541202-4 Bushing Assemblies if any of the polyurethane liner is squeezing out of the bushing housing then the 0541202-4 Bushing Assembly must be replaced.

- A. If both 0541202-4 Bushing Assembly liners are not disbonded, go to Step 8.
- B. If a 0541202-4 Bushing Assembly liner is disbonded, do the steps that follow to replace each bushing assembly:
 - (1) Jack the airplane. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 7, Jacking - Maintenance practices.)
 - (2) Remove the main landing gear. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 32, Main Landing Gear - Maintenance Practices, Main Landing Gear Removal/Installation.)
 - (3) Remove and keep the two MS16624-1262 Retainers.
 - (4) Remove and discard the 0541202-4 Bushing Assembly from the outboard support fitting.

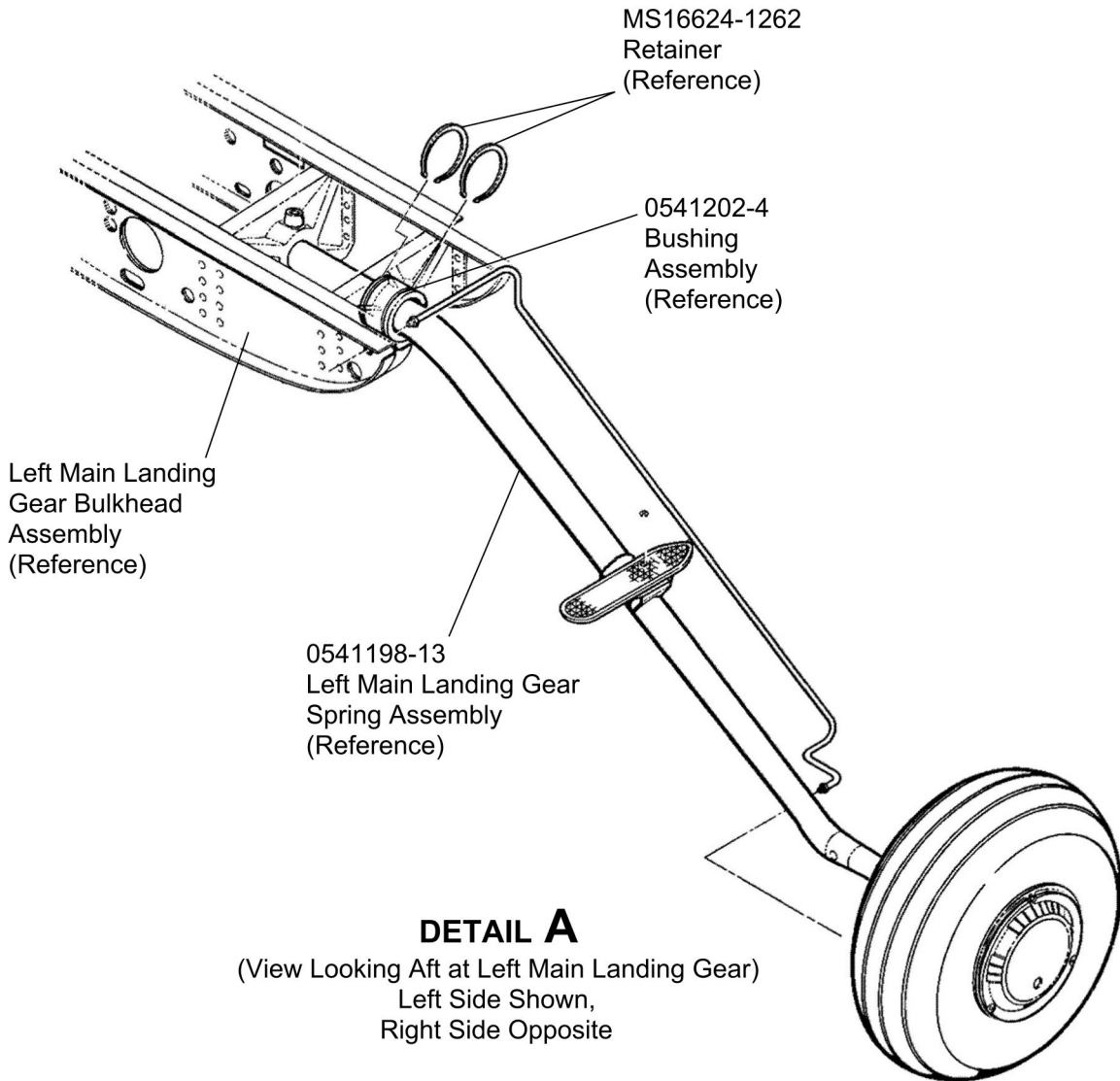
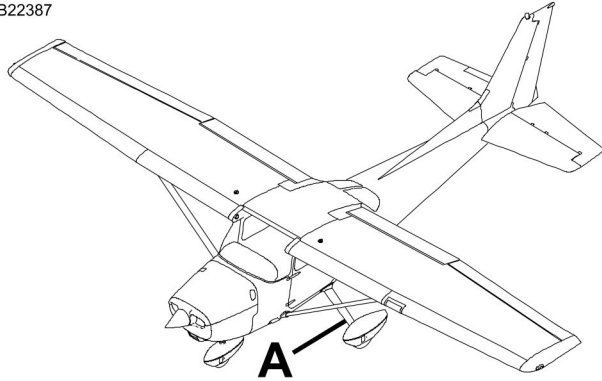
MANDATORY**SEL-32-08**

- (5) Clean the area. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 20, General Solvents/Cleaners - Maintenance Practices.)
 - (6) Apply ROYCO 11 MS (or equivalent) Grease to approximately 11 inches on the top end of the tubular strut of the left and right main landing gear and to the outer surface of the new 0541202-4 Bushing Assembly.
NOTE: Using any other grease other than a moly disulfide based grease may cause deterioration to the bushing liner material of the newly installed bushing assembly.
NOTE: For ease of installation cool the 0541202-4 Bushing Assembly to 0 °F before the installation of the tubular strut.
 - (7) Install the 0541202-4 Bushing Assembly in the outboard support fitting.
 - (8) Install the kept two MS16624-1262 Retainers with the flat side of each retainer positioned towards the edge of the 0541202-4 Bushing Assembly.
 - (9) Install the main landing gear and bleed the brakes. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 32, Main Landing Gear - Maintenance Practices, Main Landing Gear Removal/Installation.)
 - (10) Remove the airplane from jacks. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 7, Jacking - Maintenance practices.)
6. Install the fuselage fairing. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 32, Main Landing Gear - Maintenance Practices, Fuselage Fairing.)
 7. Install the left and right floorboard access plates 231AT and 231CT. (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 6, Access/Inspection Plates - Description and Operation.)
 8. Install the carpet and seat(s). (Refer to Cessna Model 172 (Series 1996 and On) Maintenance Manual, Chapter 25, Equipment/Furnishings - Maintenance Practices.)
 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.

MANDATORY

SEL-32-08

B22387



0541R3001

Figure 1. Main Landing Gear Bushing Inspection (Sheet 1)

MANDATORY

SEL-32-08

B22390

0541202-4
Bushings Assembly
(Reference)



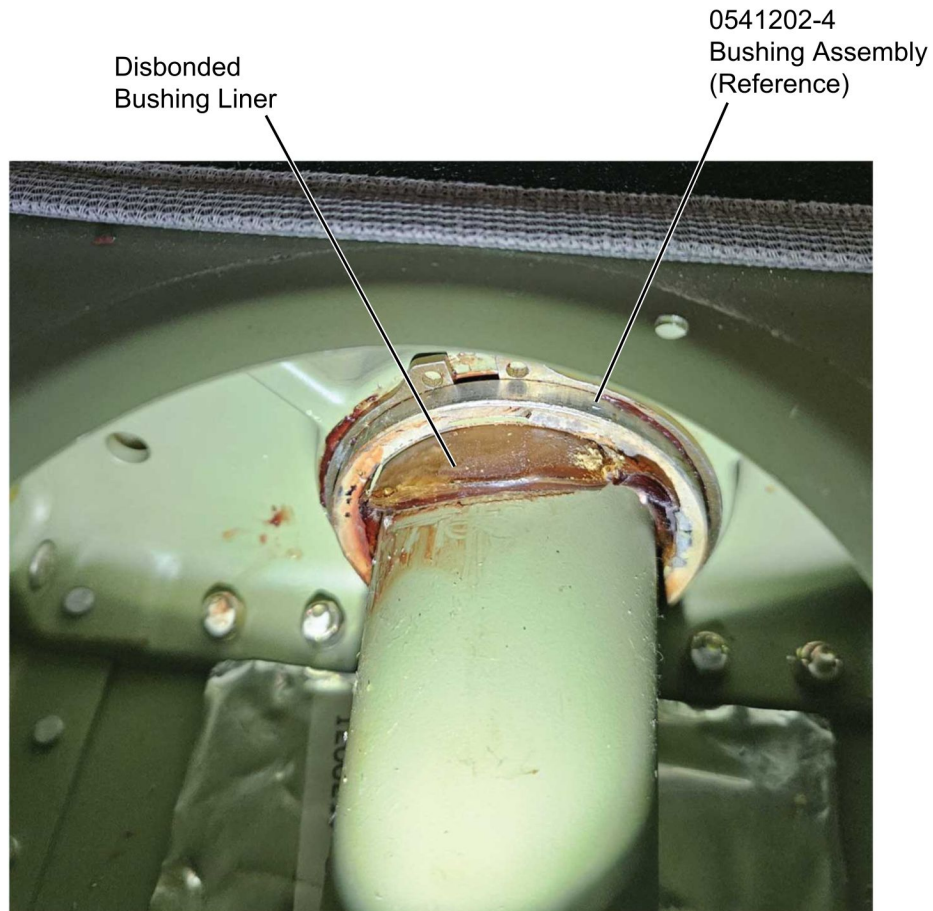
Good Bushing
(View Looking Outboard at Left Gear Bushing)

Figure 1. Main Landing Gear Bushing Inspection (Sheet 2)

MANDATORY

SEL-32-08

B22391



Bad Bushing
(View Looking Outboard at Left Landing Gear)

Figure 1. Main Landing Gear Bushing Inspection (Sheet 3)

MANDATORY

SEL-32-08

MATERIAL INFORMATION

The part below may be required to complete this service letter.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
0541202-4	1	Bushing Assembly	Same	Discard Old, Install New

* Please contact a Textron Aviation Authorized Service Facility for current cost and availability of parts listed in this service document.

TITLE

LANDING GEAR - MAIN LANDING GEAR BUSHING INSPECTION

TO:

Cessna Model 172S Aircraft Owner

REASON

To do a general visual inspection of the main landing gear bushing at the outboard bulkhead for disbonded liner and replace the bushing if the liner is disbonded. A disbonded liner can cause premature main landing gear and main landing gear outboard bulkhead bushing wear.

COMPLIANCE

MANDATORY. This service document must be accomplished at the next 100-hour or 12-month (annual-type) inspection, whichever occurs first.

LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Inspection	1.0 per side
Modification	4.0 per side

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
0541202-4	*	*

* Please contact a Textron Aviation Authorized Service Facility for current cost and availability of parts listed in this service document.

WARRANTY

This service document is *mandatory*. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the *Labor Hours* and *Material Availability* sections of this document.

Original Issue - September 07, 2023
Revision B - November 14, 2023

SEL-32-08
Page 1 of 2

Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

This document contains technical data and is subject to U.S. export regulations. This information has been exported from the United States in accordance with export administration regulations. Diversion contrary to U.S. law is prohibited. ECCN: 9E991

Eligibility: Airplanes identified within the serial number effectivity of this service document.

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 should be forwarded to:

TEXTRON AVIATION PARTS DISTRIBUTION
WARRANTY ADMINISTRATION
Bldg. P43 Dock R5
7123 SW BLVD
Wichita KS 67215

Expiration: September 07, 2024 (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 support.txtav.com to register.