

**MANDATORY**

**SEL-71-13**

## REVISION TRANSMITTAL

This sheet transmits Revision 2 to SEL-71-13, which:

- A. Edits the instructions to clarification of the correct washer installation.

**NOTE:** This revision replaces the original release and Revision 1 of SEL-71-13 in their entirety.

### REVISION COMPLIANCE

**MANDATORY.** Airplanes that completed Revision 1 of this Service Letter must complete Revision 2 at the next 100-hour or 12-month (annual-type) inspection.

**No Affect.** Airplanes that completed the original release and did not complete Revision 1 of this Service Letter, no further action is required.

### LOG OF REVISIONS

Original Issue	August 10, 2020
Revision 1	September 23, 2020
Revision 2	November 20, 2020



**MANDATORY****SEL-71-13****TITLE**

POWER PLANT - ENGINE MOUNT BOLT INSPECTION

**EFFECTIVITY****MODEL**

172S

**SERIAL NUMBERS**172S12413, 172S12420, 172S12422,  
172S12424, 172S12425, 172S12427,  
172S12429 thru 172S12438, 172S12440,  
172S12442, 172S12445, 172S12447 thru  
172S12449, 172S12451, 172S12452,  
172S12455

The equivalent of this service document has been incorporated on production airplanes 172S12456 and On.

**REASON**

It was discovered that a NAS1149F0763P Washers may not have been installed under the nut for the engine mounts during engine installation.

**NOTE:** The correct hardware stack-up will have a NAS1149F0763P Washer under the MS21045L7 Nut only. It is acceptable to have a NAS1149F0763P Washer installed under the head of the bolt if there is one full thread or more of the AN7 Bolt protruding through the MS21045L7 Nut. If there is not a full thread of the AN7 Bolt protruding through the MS21045L7 Nut, the NAS1149F0763P Washer under the AN7 Bolt head will need to be removed.

**NOTE:** The NAS1149F0763P Washer is 0.750 inch diameter, not to be confused with the larger diameter J2218-61 Washer located between the J7763-33 Mount (rubber shock mount) and AN7 Bolt head.

**DESCRIPTION**

This service document provides parts and instructions to inspect for NAS1149F0763P Washer installation and correct thread protrusion and to install and/or remove a NAS1149F0763P Washer as applicable.

**COMPLIANCE**

**MANDATORY.** This service document must be accomplished at the next 100-hour or 12-month (annual-type) 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.

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- 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**

No specialized consumable materials are required to complete this service document.

**TOOLING**

No specialized tooling is required to complete this service document.

**REFERENCES**

Model 172S Maintenance Manual

**NOTE:** To make sure all publications used are complete and current. Refer to [www.txtavsupport.com](http://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.

**NOTE:** Keep all hardware unless instructed to discard.

2. Remove the upper and lower engine cowl. (Refer the Model 172S Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)

**General Visual Inspection**

3. Do a general visual inspection of the four engine mount locations for correct bolt, washer, and nut stack-up as follows:

**NOTE:** The correct hardware stack-up will have a NAS1149F0763P Washer under the MS21045L7 Nut only. It is acceptable to have a NAS1149F0763P Washer installed under the head of the bolt if there is one full thread or more of the AN7 Bolt protruding through the MS21045L7 Nut. If there is not a full thread of the AN7 Bolt protruding through the MS21045L7 Nut, the NAS1149F0763P Washer under the AN7 Bolt head will need to be removed.

**NOTE:** The NAS1149F0763P Washer is 0.750 inch diameter, not to be confused with the larger diameter J2218-61 Washer located between the J7763-33 Mount (rubber shock mount) and AN7 Bolt head.

**NOTE:** For additional information and details and sequence of the nuts, washers and flat washers on the engine mount hardware assembly Refer the Model 172S Maintenance Manual, Chapter 71, Engine Mount - Maintenance Practices and Model 172 (Series 1996 And On) Illustrated Parts Catalog, Chapter 71, Engine Mount Installation, Figure 3.

- One NAS1149F0763P Washer must be installed under the MS21045L7 Nut.

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- A NAS1149F0763P Washer is not required under the AN7 Bolt head.
  - It is acceptable to have a NAS1149F0763P Washer installed under the AN7 Bolt head if the two conditions that follow are met.
    - One NAS1149F0763P Washer must be installed under the MS21045L7 Nut.
    - One full thread nor more of the AN7 Bolt protruding through the MS21045L7 Nut.
  - It is not acceptable to have a NAS1149F0763P Washer installed under the AN7 Bolt head if there is not one full thread of the AN7 Bolt protruding through the MS21045L7 Nut.
- A. Complete Step 4 for any engine mount that needs the NAS1149F0763P Washer removed from under the AN7 Bolt head.
- B. Complete Step 5 for any engine mount that needs a NAS1149F0763P Washer installed under the MS21045L7 Nut..

**Remove Washer From Under Bolt Head**

4. (As necessary.) Remove the NAS1149F0763P Washer from under the AN7 Bolt head as follows:

**NOTE:** For additional information and details and sequence of the nuts, washers and flat washers on the engine mount hardware assembly Refer the Model 172S Maintenance Manual, Chapter 71, Engine Mount - Maintenance Practices and Model 172 (Series 1996 And On) Illustrated Parts Catalog, Chapter 71, Engine Mount Installation, Figure 3.

- A. Support the engine.
- B. Remove the MS21045L7 Nut and discard.
- C. Remove the AN7 Bolt and NAS1149F0763P Washer from under the AN7 Bolt head, discard the NAS1149F0763P Washer.
- D. Install the AN7 Bolt.
- E. Install one NAS1149F0763P Washer and MS21045L7 Nut.
- F. Torque the MS21045L7 Nut 450 to 500 Inch-Pounds.
- G. Repeat Step 4.B. thru 4.F. for each engine mount location that has a NAS1149F0763P Washer under the AN7 Bolt head.
- H. Remove the engine support.

**Install Washer Under Nut**

5. (As necessary.) Install the NAS1149F0763P Washer under the MS21045L7 Nut as follows:

**CAUTION:** Do not remove more than one engine mount nut at a time.

- A. Remove the MS21045L7 Nut and discard.
- B. Install one NAS1149F0763P Washer and MS21045L7 Nut.
- C. Torque the MS21045L7 Nut 450 to 500 Inch-Pounds.
- D. Repeat Step 4.A. thru 4.C. for each engine mount location that does not have a NAS1149F0763P Washer under the MS21045L7 Nut.
6. Install the upper and lower engine cowl. (Refer the Model 172S Maintenance Manual, Chapter 71, Cowl - 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.

**MANDATORY**

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**MATERIAL INFORMATION**

Order the parts below as required.

<b>NEW P/N</b>	<b>QUANTITY</b>	<b>KEY WORD</b>	<b>OLD P/N</b>	<b>INSTRUCTIONS/ DISPOSITION</b>
NAS1149F0763P	As Required	Washer	N/A	Install
MS21044N7	As Required	Nut	MS21044N7	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**

POWER PLANT - ENGINE MOUNT BOLT INSPECTION

**TO:**

Cessna Model 172S Aircraft Owner

**REASON**

It was discovered that a NAS1149F0763P Washers may not have been installed under the nut for the engine mounts during engine installation.

**NOTE:** The correct hardware stack-up will have a NAS1149F0763P Washer under the MS21045L7 Nut only. It is acceptable to have a NAS1149F0763P Washer installed under the head of the bolt if there is one full thread or more of the AN7 Bolt protruding through the MS21045L7 Nut. If there is not a full thread of the AN7 Bolt protruding through the MS21045L7 Nut, the NAS1149F0763P Washer under the AN7 Bolt head will need to be removed.

**NOTE:** The NAS1149F0763P Washer is 0.750 inch diameter, not to be confused with the larger diameter J2218-61 Washer located between the J7763-33 Mount (rubber shock mount) and AN7 Bolt head.

**COMPLIANCE**

**MANDATORY.** Airplanes that have not completed the original issue or Revision 1 of this Service Letter, must complete Revision 2 of this service document at the next 100-hour or 12-month (annual-type) inspection.

**MANDATORY.** Airplanes that completed Revision 1 of this Service Letter must complete Revision 2 at the next 100-hour or 12-month (annual-type) inspection.

**No Affect.** Airplanes that completed the original release and did not complete Revision 1 of this Service Letter, no further action is required.

**LABOR HOURS**

For planning purposes only:

WORK PHASE	LABOR-HOURS
Modification	2.5

**MATERIAL AVAILABILITY**

PART NUMBER	AVAILABILITY	COST
NAS1149F0763P	*	*
MS21044N7	*	*

\* Please contact a Textron Aviation Authorized Service Facility for current cost and availability of parts listed in 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

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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.

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.

**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:** September 23, 2021 (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.