

TITLE

POWER PLANT - INSPECT FOR MISSING WASHERS ON THE ROCKER COVERS

EFFECTIVITY**MODEL**

172S

SERIAL NUMBERS172S12281 thru 172S12293, 172S12303 thru
172S12310, 172S12312**REASON**

To inspect for missing washers on the rocker covers which could cause damage/cracking to the support bracket.

DESCRIPTION

This service letter provides parts and instructions to inspect for missing washers on the rocker covers and install washers and support bracket if needed.

COMPLIANCE

RECOMMENDED. This service document should 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.
- 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.

December 3, 2019

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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
Color Chemical Film	U074093	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To prepare aluminum surface for intermediate primer.
Corrosion Resistant Primer	K000574	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	Final finish for aluminum.

TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Model 172R/172S Maintenance Manual

PUBLICATIONS AFFECTED

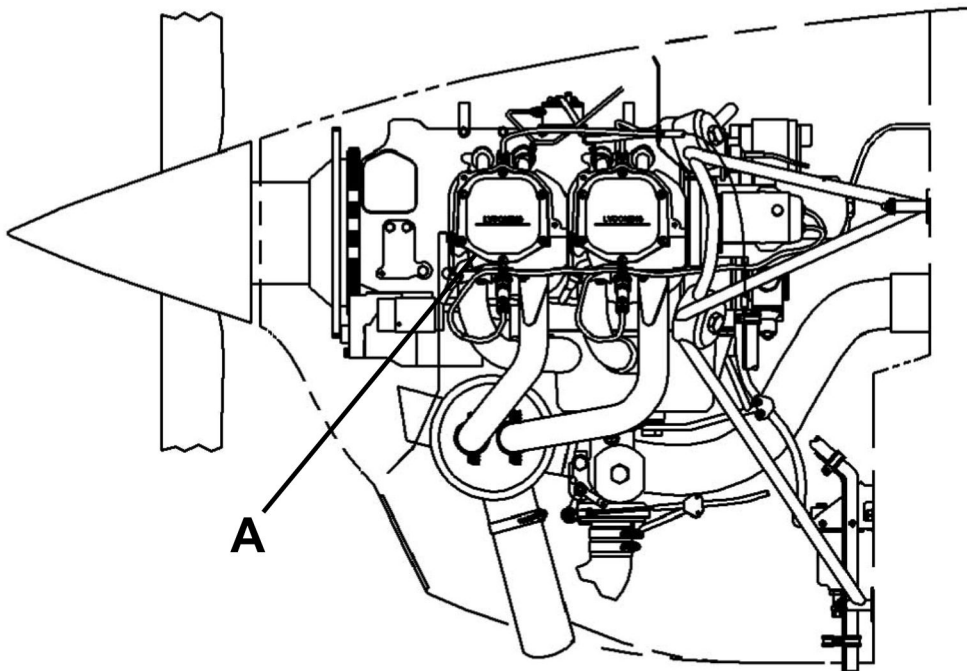
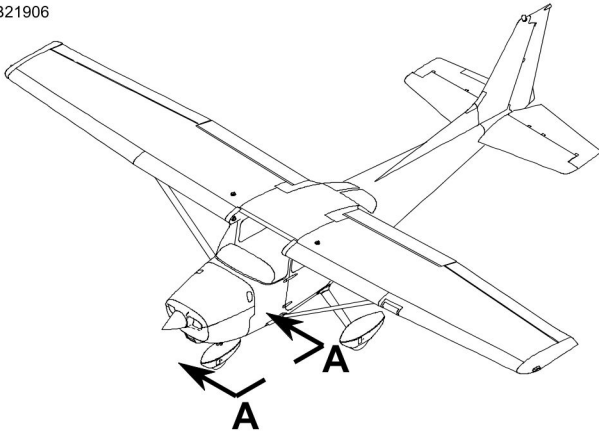
None

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 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 the engine cowl. (Refer to the Model 172R/172S Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
3. (Refer to Figure 1, View A-A and Detail A.) Inspect the left and right rocker boxes.
 - A. If the two NAS1149F0463P Washers are installed on the left rocker box as shown go to Step 3.C.
 - B. If the two NAS1149F0463P Washers are not installed on the left rocker box as shown, do the steps that follow:
 - (1) Remove the screw from the left rocker box.
 - (2) (Refer to Figure 1, Detail A and Detail B.) Inspect the support bracket.
 - (a) If the support bracket is not bent or cracked, go to Step 3.(B).(3).

- (b) If the support bracket is bent or cracked, do the steps that follow:
- 1 Remove the current 2455034-1S Support Bracket.
 - 2 Put the new 2455034-1S Support Bracket on the removed 2455034-1 Support Bracket.
 - 3 Drill two Number 30 (0.128 inch-diameter) holes in the 2455034-1S Support Bracket to match the holes in the removed 2455034-1 Support Bracket.
 - 4 Countersink the holes in the 2455034-1S Support Bracket 100° x 0.225 inch-diameter.
 - 5 Deburr the holes that were drilled.
 - 6 Apply U074093 color chem film treatment to the drilled holes.
 - 7 Apply K000574 corrosion resistant primer to the drilled holes.
 - 8 Attach the 2455034-1S Support Bracket to the structure with two MS20426AD4-4 Rivets.
- (3) Install the two NAS1149F0463P Washers and the kept screw.
- (4) Torque the fasteners to 96 to 106 inch-pounds. (Refer to Lycoming Special Service Publication No. SSP-1776-4.)
- C. Do Step 3.A and 3.B for the right side.
- D. Remove the maintenance warning tags and connect the airplane battery.
- E. Operate the engine and make sure there are no oil leaks at the rocker screws that were removed.
4. Remove the maintenance warning tags.
5. Install the engine cowl. (Refer to the Model 172R/172S Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
6. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

B21906



VIEW A-A

Figure 1. Washer Inspection (Sheet 1)

0510T1007
AA0518R1049

B21907

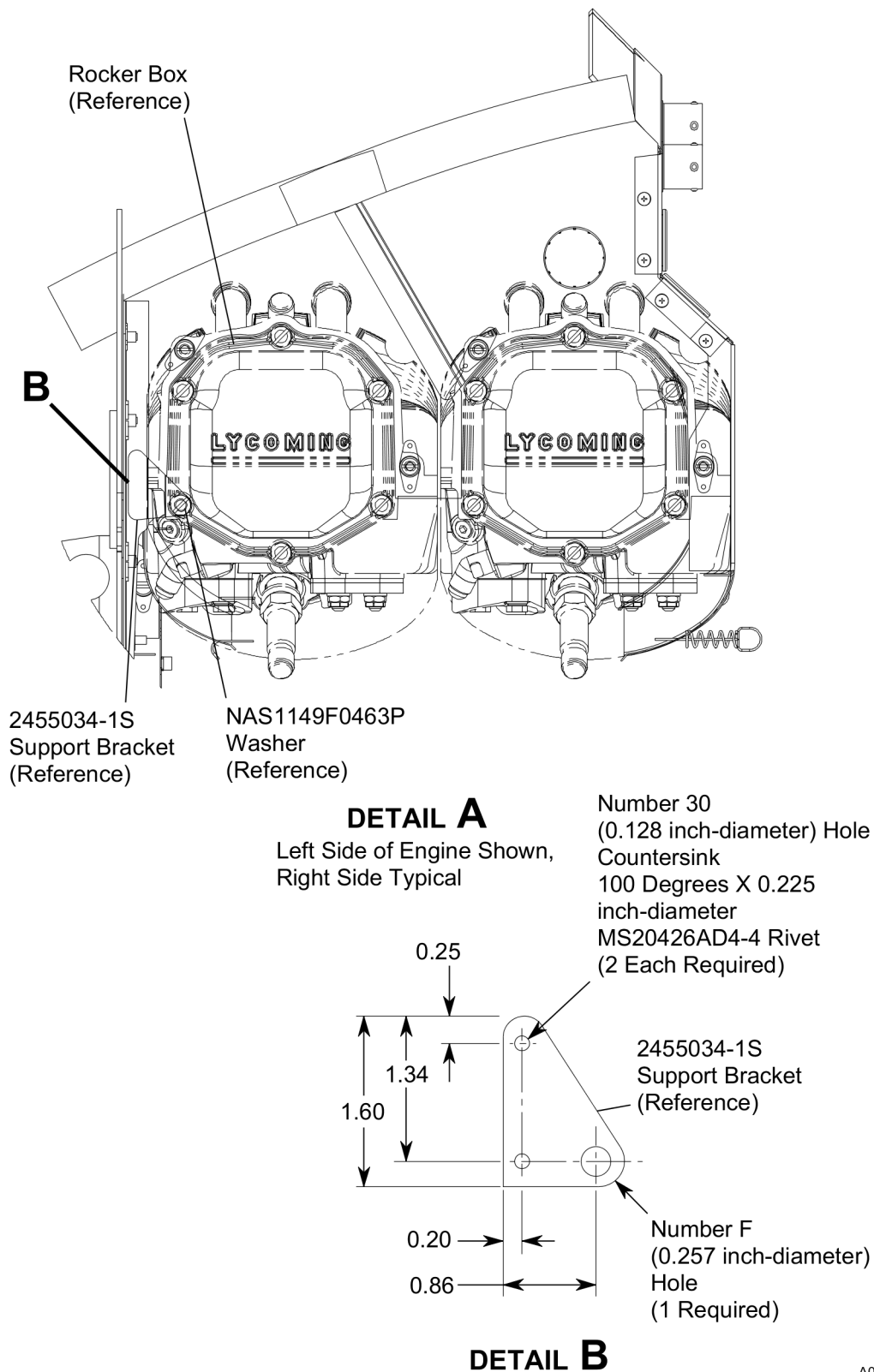


Figure 1. Washer Inspection (Sheet 2)

A0555T330-1
B2455T034-1

MATERIAL INFORMATION

The parts below may be needed to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MS20426AD4-4	If Required	Rivet	Same	Discard
NAS1149F0463P	If Required	Washer	Same	Discard
2455034-1S	If Required	Support Bracket	Same	Discard

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

TITLE

POWER PLANT - INSPECT FOR MISSING WASHERS ON THE ROCKER COVERS

TO:

Cessna Model 172S Aircraft Owner

REASON

To inspect for missing washers on the rocker covers which could cause damage/cracking to the bracket.

COMPLIANCE

RECOMMENDED. This service document should be accomplished at the next 100-hour or 12-month (annual-type) inspection.

LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Inspection	0.5
Modification	1.0 to install missing washers (If necessary)
Modification	2.0 to replace each support bracket (If necessary)

MATERIAL AVAILABILITY

No part are required to complete this service document.

PART NUMBER	AVAILABILITY	COST
MS20426AD4-4	*	*
NAS1149F0463P	*	*
2455034-1S	*	*

* 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 *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.

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 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 3, 2020 (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.