

**MANDATORY****SEL-71-15****TITLE**

POWER PLANT - O-RING INSPECTION AND INSTALLATION FOR TURBOCHARGER WASTE GATE OIL DRAIN LINE

**EFFECTIVITY****MODEL**

T206H

**SERIAL NUMBERS**T20609595 thru T20609607, T20609609 thru  
T20609611

The equivalent of this service document has been incorporated on production airplanes T20609608, T20609612 and On.

**REASON**

It is possible that the MS28778-4 O-ring was not installed on the waste gate oil drain line. If the O-ring was not installed and the wastegate actuator develops an internal leak, oil can leak into the engine compartment and not drain overboard correctly.

**DESCRIPTION**

This service document provides parts and instructions to do an inspection of the O-ring installation on the drain line for the turbocharger waste gate, and if not installed, to install an O-ring.

**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.
- 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.

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**MANDATORY****SEL-71-15****TOOLING**

No specialized tooling is required to complete this service document.

**REFERENCES**

Cessna Model 206H/T206H 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.
2. Remove the upper and the lower engine cowling. (Refer to the Maintenance Manual, Chapter 71, Cowls - Maintenance Practices.)
3. (Refer to Figure 1.) Do an inspection of the AN838-4D 90-Degree fitting for a MS28778-4 O-ring.

**NOTE:** The O-ring will be installed on the 90-Degree fitting between the waste gate and the nut.

  - A. If the O-ring is installed, no further action is required. Go to Step 8.
  - B. If the O-ring is not installed, install the O-ring. Go to Step 4.
4. (Refer to Figure 1.) Remove the clamp and the drain hose from the AN838-4D 90-Degree fitting.
5. (Refer to Figure 1.) Disconnect the AN838-4D 90-Degree fitting from the waste gate.
6. (Refer to Figure 1.) Install the AN924-4 Nut and the MS28778-4 O-Ring on the AN838-4D 90-Degree fitting as follows:
  - A. Install the nut on the fitting past the thread relief.
  - B. Install the O-ring on the fitting.
  - C. Lubricate the male threads of the fitting and the O-ring with a small quantity of oil.
7. Install the AN838-4D 90-Degree fitting to the waste gate actuator without turning the nut until the MS28778-4 O-Ring lightly seats against wastegate actuator and nut.
8. If AN838-4D 90-Degree fitting is not aligned for proper drainage, turn it Counter-Clock-Wise no more than 1 full turn until it is aligned for proper drainage.
9. Hold the AN838-4D 90-Degree fitting with a wrench and torque the AN924-4 Nut to between 38 and 42 inch-pounds.
10. (Refer to Figure 1.) Install the drain hose and the clamp to the AN838-4D 90-Degree fitting.
11. Install the upper and the lower engine cowling. (Refer to the Maintenance Manual, Chapter 71, Cowls - Maintenance Practices.)
12. Remove the maintenance warning tags and connect the airplane battery.

**MANDATORY**

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13. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

**MANDATORY**

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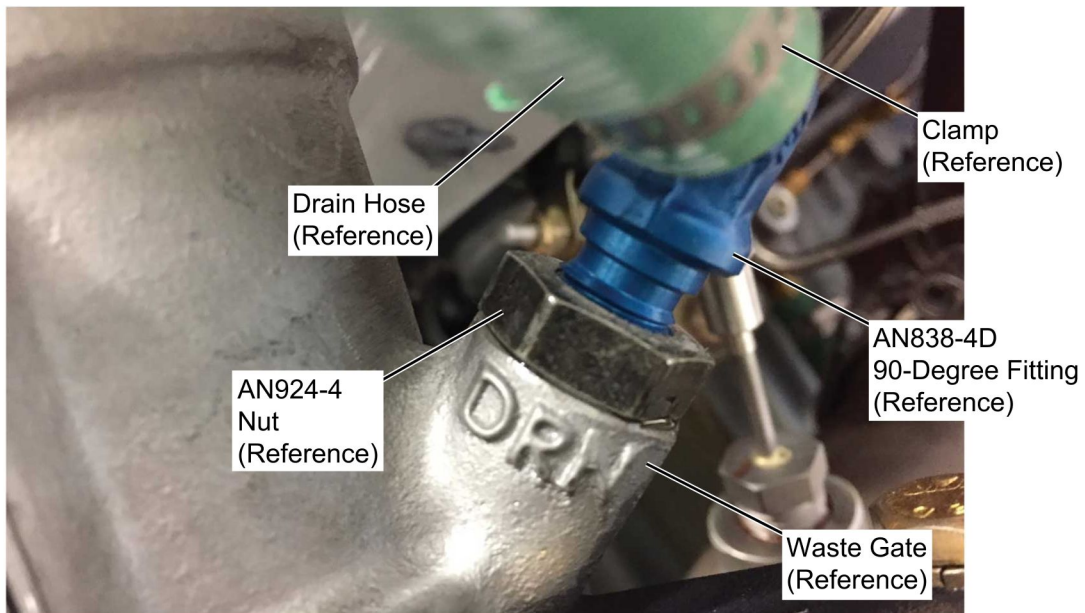
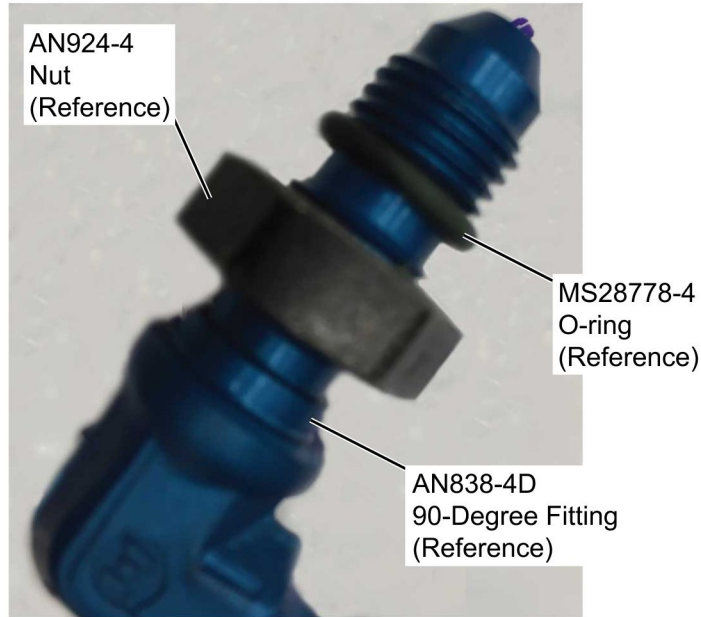


Figure 1. O-RING INSTALLATION FOR TURBOCHARGER WASTE GATE OIL DRAIN LINE (Sheet 1)

**MANDATORY**

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## MATERIAL INFORMATION

It may be necessary to order the parts below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MS28778-4	If Required	O-ring		

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



## TITLE

POWER PLANT - O-RING INSPECTION AND INSTALLATION FOR TURBOCHARGER WASTE GATE OIL DRAIN LINE

## TO:

Cessna Model T206H Aircraft Owner

## REASON

It is possible that the MS28778-4 O-ring was not installed on the waste gate oil drain line. If the O-ring was not installed and the wastegate actuator develops an internal leak, oil can leak into the engine compartment and not drain overboard correctly.

## COMPLIANCE

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

## LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Modification	0.5
Test and Inspection	0.5

## MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
MS28778-4	*	*

\* 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.

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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](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:** July 19, 2022 (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.