
Service Bulletin

November 4, 2002

MEB02-12

TITLE

MAIN LANDING GEAR TORQUE LINK INSPECTION

EFFECTIVITY

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>
310P/T310P	1969	310P0001 thru 310P0240
310Q/T310Q	1970 thru 1974	310Q0001 thru 310Q1160
310R/T310R	1975 thru 1981	310R0001 thru 310R2140

PURPOSE

This service bulletin requires an inspection of the main landing gear torque link assembly. The inspection is to make sure the correct thickness washers are installed and to make sure the washers are installed in the correct position. Non-compliance with this service bulletin could allow the retaining bolt and bushings to pull through the torque link assembly. This condition, if not corrected could result in failure of the torque link to hold the main landing gear wheel in proper alignment.

COMPLIANCE

Mandatory; shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MAN-HOURS

Approximately 3.0 man-hours per airplane.

MATERIAL

The following are available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<u>Part Number</u>	<u>Description</u>	<u>Qty/Airplane</u>	<u>Price</u>
AN175-20	Bolt	2 (if required)	\$ 2.69 (PS) ea. MQ 10
MS17825-5	Nut	2	\$ 2.12 (PS) ea. MQ 10
MS24665-153	Cotter Pin	2	\$ 0.03 (PS) ea. MQ 100
S1450-5H12-063	Washer	2 (if required)	\$ 1.37 (PS) ea. MQ 10

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ACCOMPLISHMENT INSTRUCTIONS

Change In Weight And Balance

Negligible

Material Information

Some or all of following parts may be necessary.

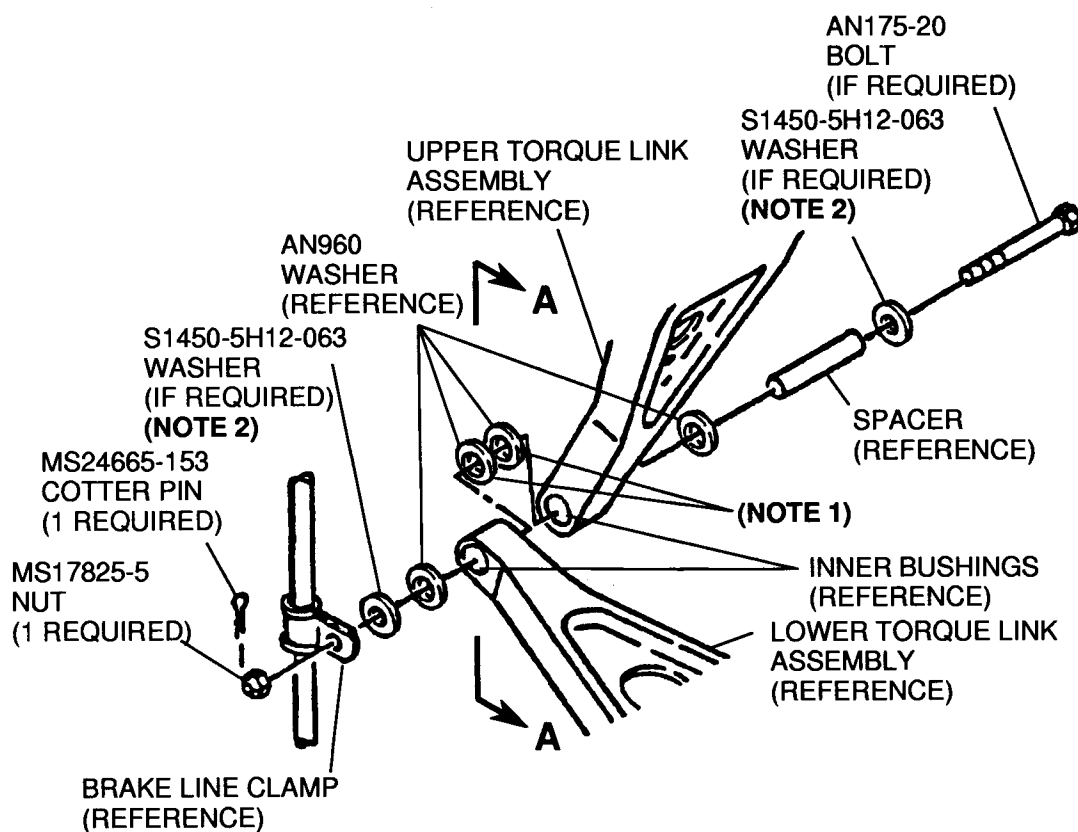
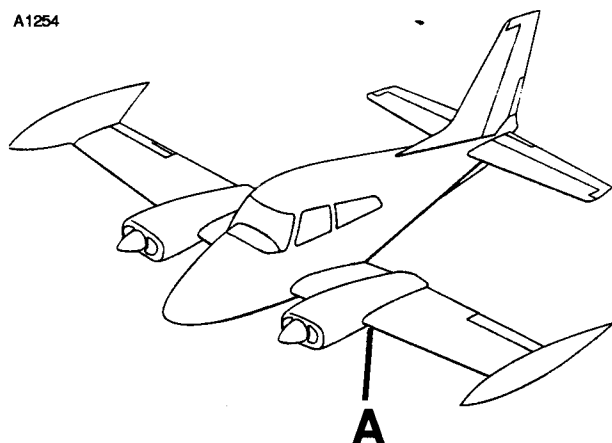
NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
AN175-20	1 or 2 (If required)	Bolt	Same	Discard
MS17825-5	2	Nut	Same	Discard
MS24665-153	2	Cotter Pin	Same	Discard
S1450-5H12-063	1 or 2 (If required)	Washer	5045018-1, 5045018-2 or S1450-5H12-063	Discard

Instructions

NOTE: Refer to applicable sections of the Service Manual as necessary to complete the following instructions.

1. Jack the airplane in accordance with the Service Manual.
2. (Refer to Figure 1, Detail A.) Look at the main landing gear upper and lower torque links and record the number of washers installed at each location.

3. Remove the AN175-20 bolt, spacer, S1450-5H12-063, 5045018-1 or 5045018-2 washers, AN960 washers, MS24665-153 cotter pin and MS17825-5 nut. Discard the MS24665-153 cotter pin and MS17825-5 nut. Discard the AN175-20 bolt if it is excessively worn.
4. Measure the outside diameter of the washer under the brake line clamp and the washer under the head of the bolt.
 - A. If the outside diameter of the washer(s) is 0.5625, discard the washer(s). Go to Step 5.
 - B. If the outside diameter of the washer(s) is 0.75, keep the washer(s) for reinstallation. Go to Step 5.
5. (Refer to Figure 1, Detail A.) Reassemble the torque link with the parts below.
 - A. Install one new or kept AN175-20 bolt, kept spacer and one new S1450-5H12-063 washer or kept S1450-5H12-063, 5045018-1 or 5045018-2 washer under the head of the bolt.
 - B. (Refer to Figure 1, Detail A.) Install one new MS17825-5 nut and one new S1450-5H12-063 washer or kept S1450-5H12-063, 5045018-1 or 5045018-2 washer under the brake line clamp as shown.
 - (1) Tighten the nut and check for proper cotter pin hole alignment and side play of the torque link assemblies.
 - (2) (Refer to Figure 1, View B-B.) Maintain a 0.004 inch (minimum) to 0.020 inch (maximum) side play of the torque link assemblies.
 - (3) Make sure that the spacer washers are centered on the bushing.
 - (4) Torque the nut 100 to 140 inch-pounds.
 - C. (Refer to Figure 1, Detail A.) Install one new MS24665-153 cotter pin.
6. Do Steps 2 through 5 for the opposite side.
7. Remove the airplane from the jacks in accordance with the Service Manual.
8. (Refer to Figure 1, View A-A.) Check for proper toe-out alignment. Reposition AN960 washers as necessary to obtain proper wheel alignment. (Refer to applicable sections of the Service Manual.)
9. Make an entry in the airplane logbook stating compliance and method of compliance with this Service Bulletin.

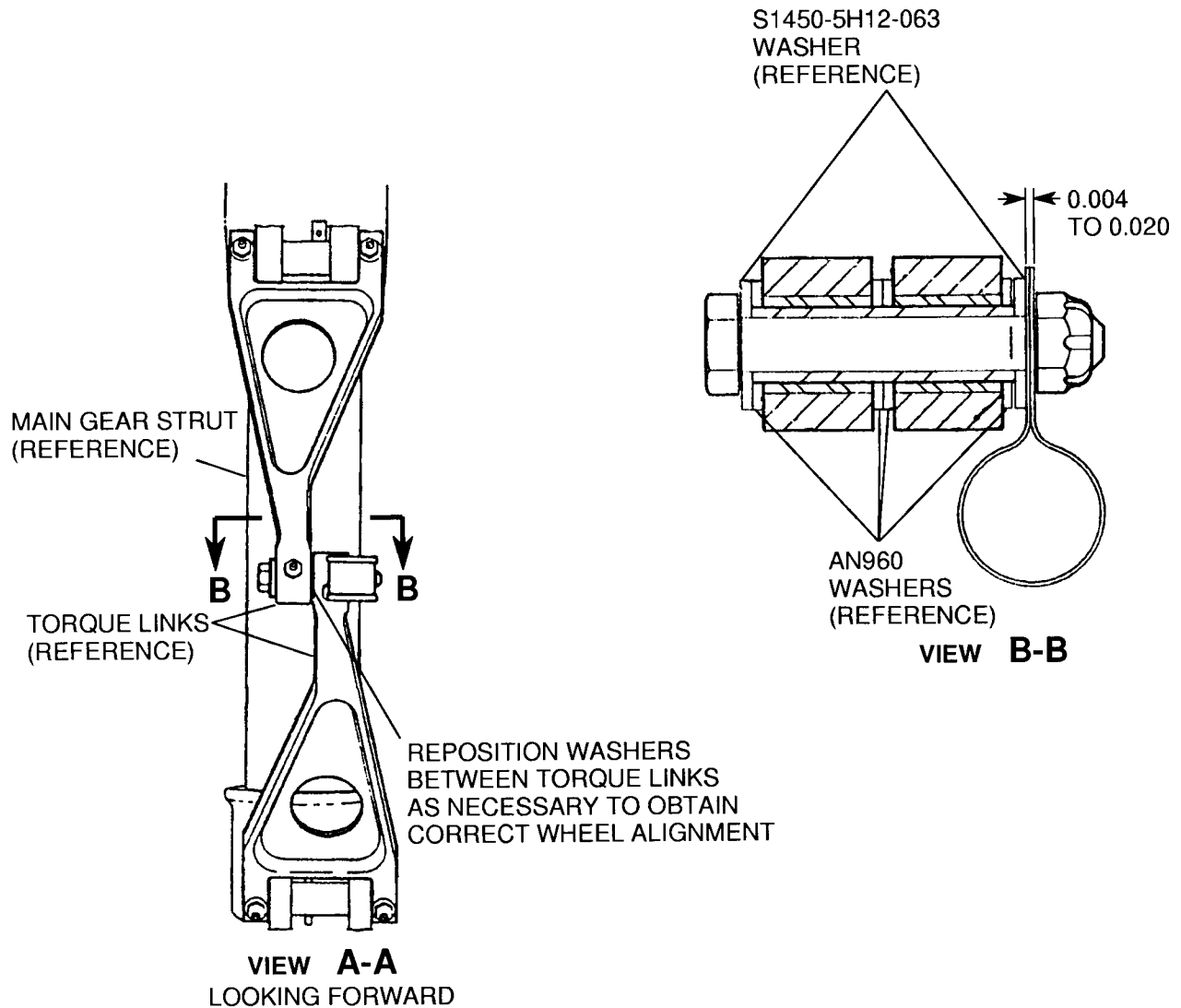


DETAIL A

NOTE 1: RECORD NUMBER OF WASHERS AT EACH LOCATION BEFORE DISASSEMBLY AND REINSTALL SAME NUMBER OF WASHERS UPON REASSEMBLY.

NOTE 2: REPLACE ANY WASHERS AT THESE LOCATIONS THAT HAVE AN OUTSIDE DIAMETER OF LESS THAN 0.75 INCH WITH S1450-5H12-063 WASHERS.

Main Landing Gear Torque Link Washer Inspection/Replacement
Figure 1 (Sheet 1)



NOTE 3: ALL DIMENSIONS SHOWN ARE IN INCHES.

Main Landing Gear Torque Link Washer Inspection/Replacement
Figure 1 (Sheet 2)

CREDIT

Not applicable

OWNER NOTIFICATION

On November 4, 2002 the following Owner Advisory message will be sent to applicable owners of record in MEB02-12A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin MEB02-12 has been issued and requires an inspection of the main landing gear torque link assembly on your airplane. The inspection is to make sure the correct thickness washers are installed and that the washers are installed in the correct position. Non-compliance with Service Bulletin MEB02-12 could allow the retaining bolt and busings to pull through the torque link assembly. This condition, if not corrected could result in failure of the torque link to hold the main landing gear wheel in proper alignment.

Compliance is mandatory; shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part (FAR) 43.13.

Please contact a Cessna Multi-engine Service Station for detailed information and arrange to have Cessna Service Bulletin MEB02-12 accomplished on your airplane.

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