



SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. T-056

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DATE: May 19, 2017

1. SUBJECT: Shoulder Harness Attachment Inspection

2. MODEL: 480 and 480B

3. EFFECTIVITY: All S/N

4. BACKGROUND:

Enstrom has received a report of an incorrect shoulder harness attachment as a result of an improperly installed machined washer. The machined washer had been installed backwards behind the restraint. In this configuration, the restraint cannot react the loads from a crash and the seat belt and shoulder harness will not properly protect the occupant.

This Service Directive Bulletin (SDB) requires an inspection of the shoulder harness attachments.

5. COMPLIANCE:

WARNING

DO NOT use the rear seats until paragraph 6 has been accomplished.

5.1 Prior to the next flight, latch the rear bench seat belts and placard them inoperative. This action may be accomplished by the owner/operator.

5.2 Within the next 5 hours or at the next scheduled annual or 100 hour inspection, inspect the shoulder harness attachments for correct installation in accordance with paragraph 6.

6. INSPECTION:

NOTE

Perform all maintenance in accordance with the TH-28/480 Series Maintenance Manual.

6.1 Remove the covers from the shoulder harness attachment points on the cabin back wall (3 places).

- 6.2 Inspect each shoulder harness attachment for the installation of 4119799-‘x’ machined washer (Figure 1).
- 6.2.1 Verify that the machined washer is installed as shown in Figure 2. (The machined washer flange is under the head of the bolt and in front of the restraint.)
- 6.2.2 The washer under the bolt head should not be AN960-416 (Figure 1).
- 6.2.3 An incorrect machined washer installation is shown in Figure 3. (Machined washer is behind the restraint.)



Figure 1. Machined Washer 4119799-27 (Left), Washer AN960-416 (Right)

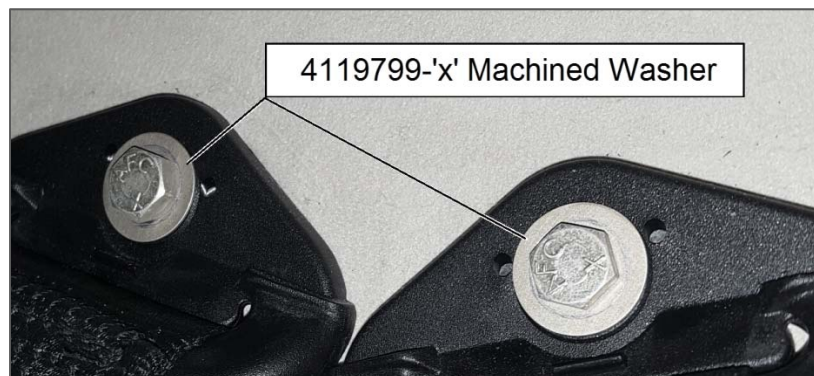


Figure 2. Correct Washer Installation – Machined Washer Installed In Front of the Restraint



Figure 3. Incorrect Washer Installation – Machined Washer Installed Behind the Restraint

- 6.3 If the machined washer is correctly installed, no further action is necessary.
- 6.3.1 Reinstall the covers.
- 6.3.2 Remove the placard.
- 6.4 If the machined washer is incorrectly installed or not installed:

NOTE

AN960-416 washers (as required) are installed under the 4119799-‘x’ machined washer to provide additional clearance between the shoulder harness attachment and the back wall upholstery. The washers may be loose or may be embedded in the upholstery after removing the bolt. If embedded, simply leave the AN960-416 washers in place.

- 6.4.1 Remove the AN4-7A bolt, shoulder harness, and 4119799-‘x’ washer.
- 6.4.1.1 Retain AN960-416 washers for reinstallation.
- 6.4.2 Install bolt, machined washer, shoulder harness, and washers as follows:
- 6.4.2.1 Apply Loctite 271 (or equivalent) threadlocker to the bolt threads.
- 6.4.2.2 Place the machined washer onto the bolt (flange side under the bolt head) (Figure 4).
- 6.4.2.3 Place the bolt with the machined washer through the shoulder harness attachment hole (the shoulder harness is under the bolt head and the machined washer flange).
- 6.4.2.4 Install loose AN960-416 washers onto the bolt, as required.
- 6.4.2.5 Install the bolt, machined washer, shoulder harness, and washer stack up into the back wall attachment point.



Figure 4. Bolt, Machined Washer, Shoulder Harness Attachment (not shown), and Washers Stack Up (shown without threadlocker)

6.4.3 Torque the bolts to 50-70 in-lb/5.7-9.3 Nm.

6.4.4 Reinstall the cover.

6.4.5 Remove the placard.

7. PARTS: N/A

8. SPECIAL TOOLS: N/A

9. MAN-HOURS: Inspection – 5 minutes

10. WARRANTY: Per Enstrom Helicopter Warranty policy

11. WEIGHT CHANGE: N/A

12. LOG BOOK ENTRY: Enter compliance with this SDB in the aircraft maintenance records.

13. REPETITIVE ACTION: N/A