

CERTAIN 2015-2017 F-150 AND 2017 F-SUPER DUTY VEHICLES EQUIPPED WITH REAR INFLATABLE SEATBELTS — LEFT-HAND REAR INFLATABLE SEATBELT BUCKLE INSPECTION & REPAIR

OVERVIEW

Some of the affected vehicles may not conform to the requirements specified by Federal Motor Vehicle Safety Standard (FMVSS) 210: Seat Belt Assembly Anchorages. An inadequate rivet head thickness may allow separation of the left-hand rear inflatable seatbelt buckle from its mounting bracket during a crash, increasing the risk of injury. Dealers are to inspect the left-hand rear inflatable seatbelt buckle following the Service Procedure below and repair, if necessary.

NEW ! SERVICE PROCEDURE

Recommended Tool List:

Seatbelt Rivet Gauge 501-420
3/8" Drive Impact Gun
3/8" Drive 13mm and 19mm Deep Socket
3/8" Drive Extension 3 in (76 mm) and 6 in (152 mm)
3/8" Drive Torque Wrench
<i>3/8" Drive ratchet</i>
<i>T50 Torx® Bit</i>
<i>Drill</i>
<i>1/8", 11/32" and 7/16" Drill Bits</i>
<i>Punch</i>
<i>Die Grinder</i>
<i>Hammer</i>

1. Position the rear seat cushion up to access the left-hand (LH) rear inflatable seatbelt buckle assembly. See Figure 1.

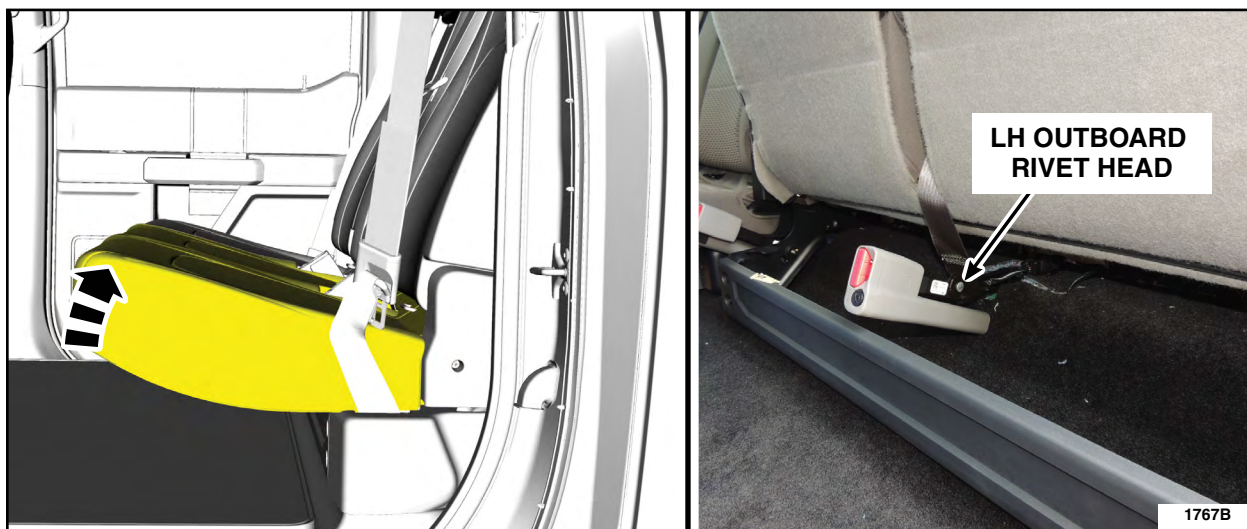


FIGURE 1



2. Using Seatbelt Rivet Gauge 501-420, check the outboard rivet head height.
 - a. Place the wide groove (height measurement) of the gauge flat against the outboard rivet head bracket. See Figure 2.
 - b. Attempt to slide the gauge over the rivet.
 - c. Does the gauge stop at the edge of the rivet?

Yes – Rivet head height meets specification, proceed to Step 3.

No – Proceed to Inflatable Seatbelt Buckle Repair on Page 4.

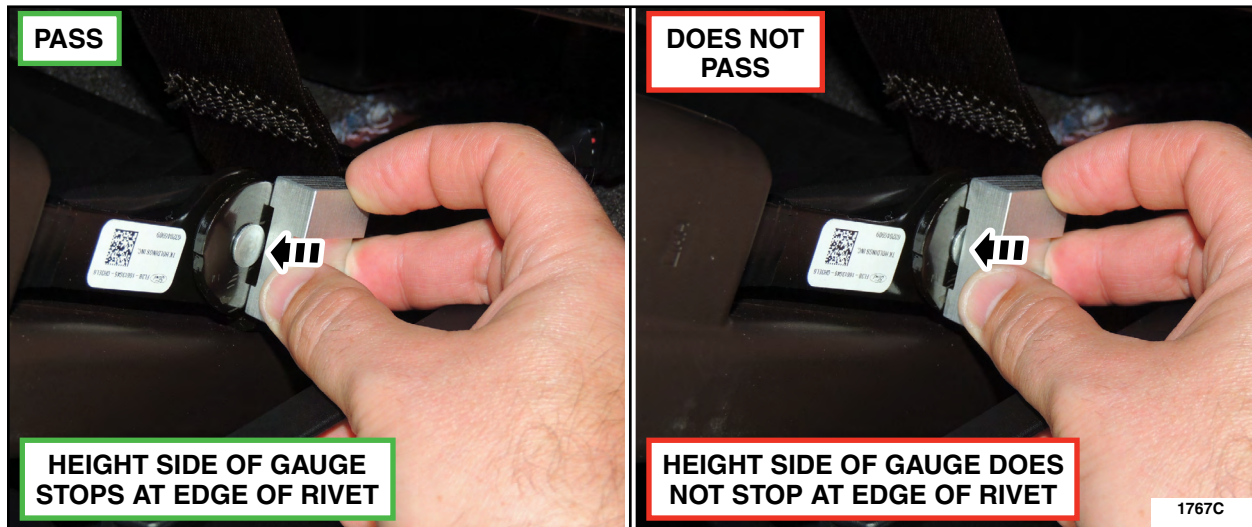


FIGURE 2



3. Using the same Seatbelt Rivet Gauge, measure the outboard rivet head width.
 - a. Place the narrow groove (width measurement) of the gauge flat against the outboard rivet head bracket. See Figure 3.
 - b. Attempt to slide the gauge over the rivet.
 - c. Does the gauge stop before sliding completely over the rivet head?

Yes – Rivet head width and height PASSES inspection, replacement not required.

No – Proceed to Inflatable Seatbelt Buckle Repair on Page 4.

NOTE: The gauge has to hit and stop ON BOTH SIDES of the gauge. If the gauge slides over the outboard rivet head on either side of the gauge, repair of the LH rear inflatable seatbelt buckle will be required.

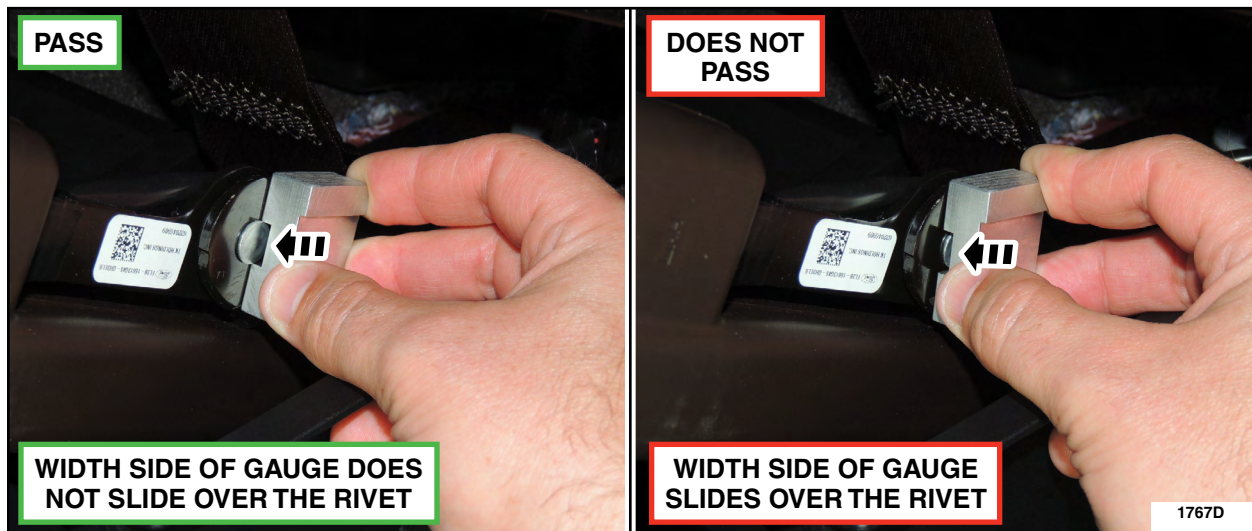


FIGURE 3



NEW ! Inflation Seatbelt Buckle Repair

1. Remove the LH rear inflatable seatbelt buckle. Please follow the WSM procedures in Section 501-20A.
2. Disconnect the two pin-type wire harness retainers from the seatbelt buckle anchor bracket.
3. Secure the seatbelt buckle assembly anchor bracket in a vise as shown in Figure 4.

NOTE: To protect the finish of the seatbelt buckle anchor bracket, use a pair of shop rags or equivalent to cover the clamping surface of the vise.



FIGURE 4

4. Use a punch to create a pilot mark in the center of the rivet head. See Figure 5.

NOTE: It is critical to align the pilot mark at the center of the rivet head. If the alignment is incorrect, the rivet head will not drill out and separate properly.

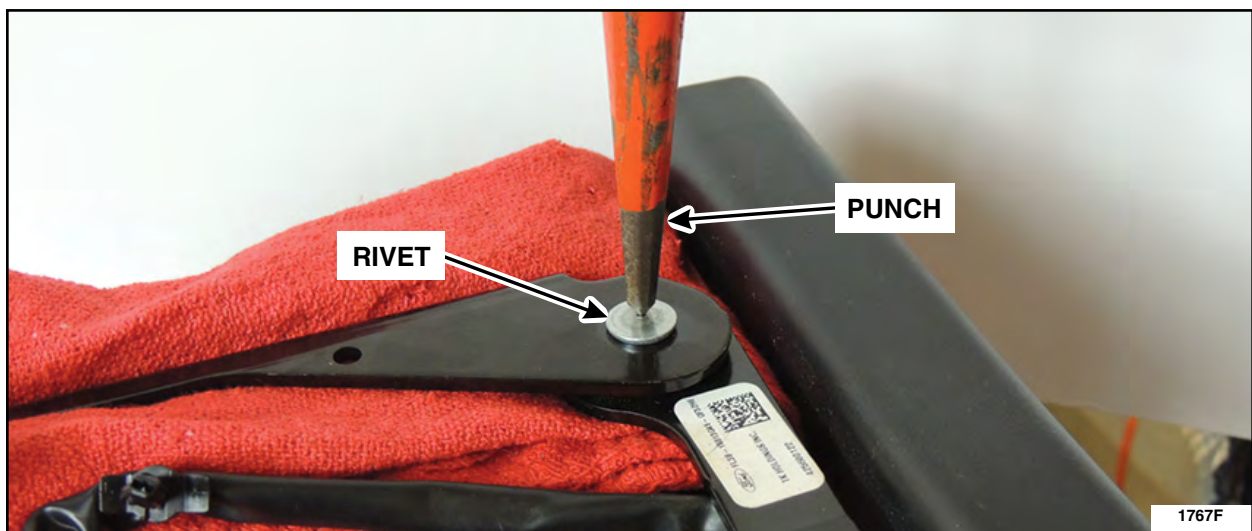


FIGURE 5



5. With the help of an assistant to hold the inflatable seatbelt buckle, drill out the rivet to separate the inflatable seatbelt buckle from the anchor bracket.
- Cover the inflatable seatbelt buckle with a shop rag during drilling to prevent metal shavings from entering the buckle assembly.
 - Using a 1/8" drill bit, drill a pilot hole in the center of the rivet no more than 1/8" (3.2 mm) depth.
 - Using a 11/32" drill bit, drill out the rivet head. If the drill bit begins to contact the anchor bracket, stop drilling and use a punch to separate the remaining portion of the rivet from the anchor bracket. See Figure 6.

NOTE: It is important to have an assistant hold the inflatable seatbelt buckle assembly during the drilling procedure to catch the assembly once separated to prevent dropping and damaging the inflatable seatbelt buckle. See Figure 6.

NOTE: If the drill bit immediately begins to drill off center, grind the top of the rivet and return to Step 4. Use caution not to contact and/or damage the anchor bracket.

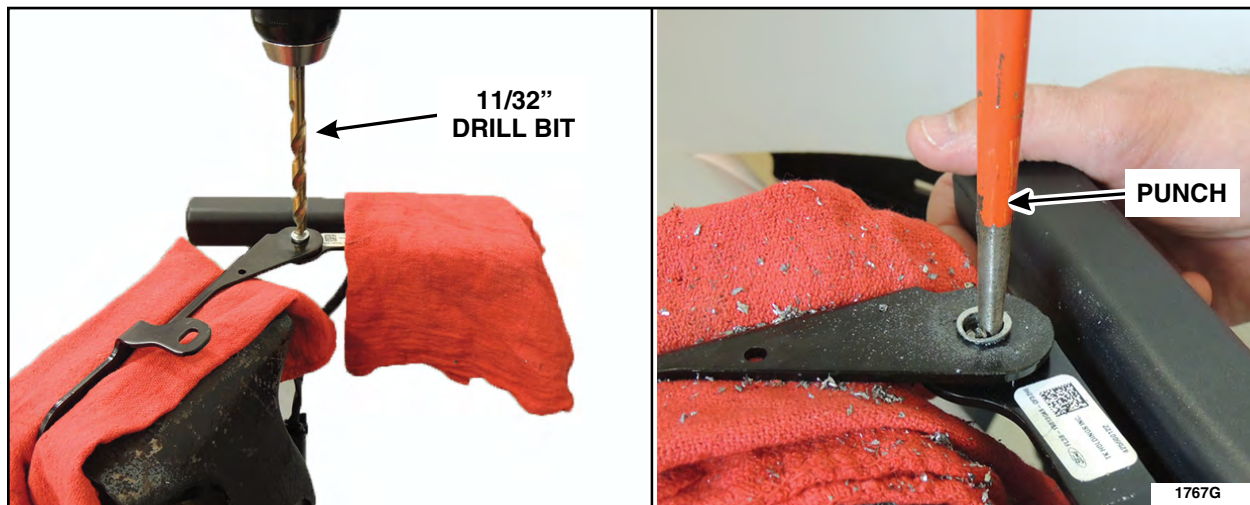


FIGURE 6

6. Using a 7/16" drill bit, enlarge the anchor bracket to match the specified bolt. See Figure 7.



FIGURE 7



7. Place the shoulder of the bolt through the white plastic bushing on the inflatable seatbelt buckle anchor bracket. Install the bolt, wave washer and nut to secure the inflatable seatbelt buckle to the anchor bracket. See Figure 8.

- Tighten fastener to 30 lb.ft (40 Nm).

NOTE: Ensure that the wave washer is centered around the shoulder of the bolt and is not pinched between the shoulder and the bracket prior to final torque.

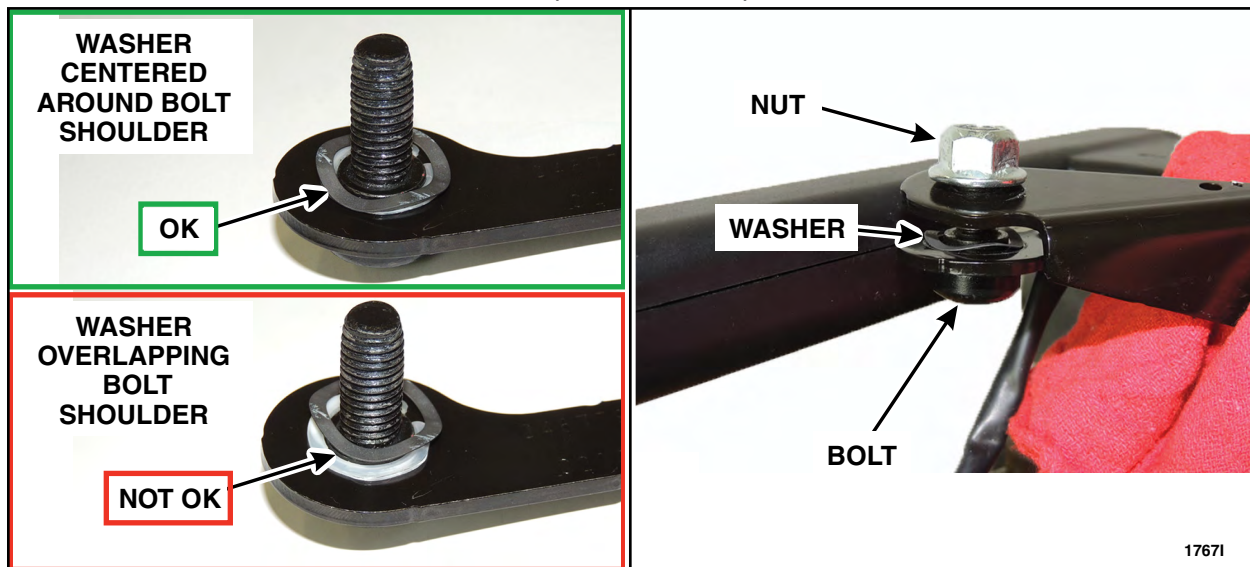


FIGURE 8

8. Ensure the inflatable seatbelt buckle freely rotates on the attaching bolt shoulder.
9. Connect the two pin-type wire harness retainers to the seatbelt buckle anchor bracket. See Figure 9.
10. Install the LH rear inflatable seatbelt buckle. Please follow the WSM procedures in Section 501-20A. See Figure 9.



FIGURE 9

