

Seatbelt System Functional Tests

Check

Functional Test - Seatbelt Buckle and Tongue

⚠ **WARNING:** All seatbelt components must be inspected and corrected as part of any collision repair. Inspect all seatbelt components as prescribed by Seatbelt Procedure After a Collision found in Section 501-20A General Procedures of this manual. Failure to follow this instruction may result in incorrect operation of the seatbelt system and increase the risk of serious personal injury or death in a crash.

NOTE: Make sure the seatbelt buckle and tongue assembly operate freely during the latching and unlatching function. Fasten the seatbelt by inserting the tongue (male portion) into the buckle (female portion).

1. Verify the following during the latching sequence:
 - Tongue insertion does not require excessive effort.
 - A click is heard when the seatbelt buckle latches the tongue.
2. Verify the system integrity by forcefully pulling on the seatbelt webbing.
3. Unlatch the seatbelt by fully pressing the seatbelt buckle release button and allowing the seatbelt to release and retract.
4. Verify the following during the unlatching process:
 - Pressing the push button does not require excessive effort.
 - The tongue can be removed easily from the buckle.
5. Repeat the above steps 3 times.
6. If the functional test reveals a concern(s), install a new seatbelt buckle or seatbelt retractor as required.

Functional Test - Seatbelt Retractor

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NOTE: Make sure the seatbelt retractor is freely operational for extraction and retraction of the seatbelt webbing between full extension and in-vehicle stowed positions.

7. Extract and retract the seatbelt between the full extension and stowed positions.
8. Verify the seatbelt retractor operates without excessive effort or binding.
9. Install a new seatbelt retractor if any concern is found or the complaint has been verified.

Functional Test - Seatbelt Retractor, Automatic Locking Retractor (ALR) Mode

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10. Position the seat backrest fully upright (if adjustable).
11. Position the seatbelt shoulder height adjuster (if equipped) in the full down or up position.
12. Fasten the seatbelt.
13. Pull out the seatbelt webbing until the Automatic Locking Retractor (ALR) feature is activated.
14. Allow the seatbelt webbing to retract until it stops.
15. Pull on the seatbelt webbing to make sure the seatbelt retractor has remained in the Automatic Locking Retractor (ALR) mode. If the seatbelt retractor is not locked, install a new seatbelt retractor.