



SURFACE VEHICLE RECOMMENDED PRACTICE

J141™

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Seat Belt Hardware Performance Requirements

RATIONALE

This technical report is being stabilized because it covers technology, products, or processes for which technical expertise no longer resides in the owning committee.

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1. SCOPE

This SAE Recommended Practice describes performance requirements for hardware used in motor vehicle seat belt assemblies when tested in accordance with the test procedures specified in SAE J140.

Test procedures and performance requirements for retractors will be covered in separate SAE Recommended Practices to be issued later.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J140 Seat Belt Hardware Test Procedure

3. DEFINITIONS

See SAE J1803

4. REQUIREMENTS FOR HARDWARE

4.1 General

4.1.1 Hardware

All hardware which contacts, under normal usage, an occupant, his or her clothing, or his or her seat belt assembly, webbing shall be free from burrs and sharp edges, and shall be designed and located in the assembly that the possibility of injury to the occupant shall be minimized.

4.1.2 Buckle Release Mechanism

The buckle release mechanism shall be designed to minimize the possibility of accidental release. A buckle, with the release mechanism in the normal position, shall have only one opening into which the latch plate can be inserted on the end of the buckle which is designed to receive and latch the latch plate.

4.1.3 Attachment Hardware

Attaching bolts shall be 7/16-20 UNF-2A or 1/3-13 UNC-2A or equivalent metric hardware. The hardware should be designed to prevent attachment bolts from becoming disengaged from the vehicle while in service.

4.2 Corrosion Resistance

4.3 Any hardware of a seat belt assembly shall be adequately protected by plating, paint, or other protective coating or made of a corrosion resistant material so that, after exposure to the conditions specified in 4.2 of SAE J140, it will not allow any ferrous corrosion or non ferrous corrosion which may be transferred, either directly or by means of the webbing, to a person or his clothing during the use of a seat belt assembly incorporating the hardware, and must still meet all functional and static strength requirements of SAE J140 and SAE J141. Temperature Resistance