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INTERNATIONAL
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SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J114

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Submitted for recognition as an American National Standard

(R) SEAT BELT HARDWARE WEBBING ABRASION PERFORMANCE REQUIREMENTS

***Foreword*—**This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

***1. Scope*—**This SAE Recommended Practice describes the performance requirements for abrasion resistance of webbing when used in adjustment hardware normally used to adjust the length of seat belt assemblies such as those described in SAE J140. These requirements are applicable to tests conducted according to the procedure described in SAE J339. Although adjustment hardware is normally the primary source of webbing abrasion in a seat belt assembly, consideration should be given to other areas of normal webbing contact in the restraint system that may provide a more severe condition of webbing abrasion.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J140—Seat Belt Hardware Test Procedure
SAE J339—Seat Belt Assembly Webbing Abrasion Test Procedure

3. Requirements

3.1 General—The seat belt assembly webbing abrasion test shall consist of 2500 cycles.

3.2 Adjustment Force—See SAE J140. At the completion of the abrasion test, the force required to adjust the length of the seat belt shall not exceed 50 N (11 lb) when tested with that portion of the webbing having undergone the cycle test in the adjustment area.

3.3 Tilt-Lock Adjustment—See SAE J140. At the completion of the abrasion test, the adjustment hardware of a seat belt assembly having tilt-lock adjustment normally used to adjust the length of the assembly shall lock the webbing at an angle of not less than 30 degrees between the plane of the adjustment means and the anchor webbing. This test shall be conducted in the abraded area of the webbing.

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3.4 Webbing Breaking Strength—See SAE J140. At the completion of the abrasion test, the webbing breaking strength shall be determined. No breaking strength shall be less than 20 kN (4500 lb) for a Type 1 belt, 16.7 kN (3750 lb) for pelvic portion, 13.3 kN (3000 lb) for upper torso portion of a Type 2 belt, or 13.3 kN (3000 lb) for a type 2a upper torso restraint.

4. Notes

4.1 Marginal Indicia—The change bar (l) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

PREPARED BY THE SAE RESTRAINTS STANDARDS COMMITTEE