



# SURFACE VEHICLE RECOMMENDED PRACTICE

J1819

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Superseding J1819 JUL1999

## Securing Child Restraint Systems in Motor Vehicles

### RATIONALE

J1819 has been reaffirmed to comply with the SAE five-year review policy.

**Foreword**—The use of child restraint systems in motor vehicles is required by law in all fifty of the United States. Further, add-on child restraint systems are required by Federal Motor Vehicle Safety Standard No. 213 to be designed to use the vehicle seat belt for attachment to the vehicle and vehicle seat. Accordingly, compatibility between these restraint systems and vehicle seats and seat belts is necessary for their proper functioning and performance. To promote proper installation of child restraint systems in motor vehicles, it is important that manufacturers of both child restraint systems and vehicles design them to conform to this SAE Recommended Practice. Child restraint systems and vehicle seats and seat belts having features that conform to this document are more likely to be compatible with one another.

- 1. Scope**—The scope of this SAE Recommended Practice is to promote compatibility between child restraint systems and vehicle seats and seat belts. Design guidelines are provided to vehicle manufacturers for certain characteristics of seats and seat belts, and to child restraint system (CRS) manufacturers for corresponding CRS features so that each can be made more compatible with the other.

The Child Restraint System Accommodation Fixture, shown in Figure 1, is used to represent a CRS to the designers of both the vehicle interior and the CRS for evaluation of each product for compatibility with the other. The features of the accommodation fixture are described as each is used. A CRS accommodation template of transparent plastic, not shown, represents the side of the accommodation fixture for use in approximating its installed position on design drawings.

### 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 J1369—Anchorage Provisions for Installation of Child Restraint Tether Straps in Rear Seating Positions

SAE 870324—Performance Evaluation of Child Restraints Relative to Vehicle Lap-Belt Anchorage Location, Weber, K. and Radovich, V. G.

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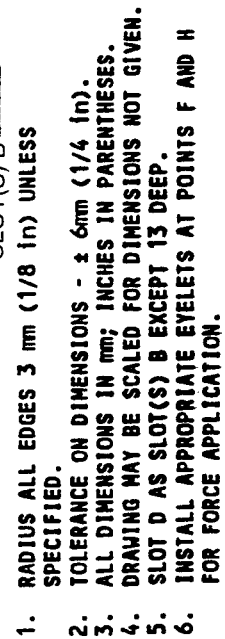
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