



SURFACE VEHICLE RECOMMENDED PRACTICE

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Vehicle Passenger Door Hinge Systems

RATIONALE

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1. **Scope**—The scope of this SAE Recommended Practice is to establish recommended uniform test procedures and minimum static load requirements for vehicle passenger door hinge systems. Tests are described that can be conducted on test fixtures and equipment in laboratory test facilities.

The test procedures and minimum performance requirements outlined in this document are based on currently available engineering data. It is intended that all portions of the document be periodically reviewed and revised as additional knowledge regarding vehicle hinge system performance under impact conditions is developed.

2. **References**—There are no referenced publications specified herein.

3. **Definitions**

- 3.1 **Hinge System**—That system used to position the door relative to the body structure and control the path of the door swing for passenger ingress and egress.

- 3.2 **Hinge Assembly**—That portion of the hinge assembly comprised of a pair of pivotally interconnected hinge members.

- 3.3 **Hinge Components**

- 3.3.1 **DOOR MEMBER**—That portion of the hinge assembly normally affixed to the door structure and constituting the swinging member.

- 3.3.2 **BODY MEMBER**—That portion of the hinge assembly normally affixed to the body structure and constituting the fixed member.

- 3.3.3 **HINGE PIN**—That portion of the hinge assembly normally interconnecting the body and door members and establishing the swing axis.