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FEDERAL MOTOR VEHICLE SAFETY STANDARD NO. 207

**ANCHORAGE OF SEATS
PASSENGER CARS**



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
NATIONAL HIGHWAY SAFETY BUREAU

MOTOR VEHICLE SAFETY STANDARD NO. 207**Anchorage of Seats—Passenger Cars**

S1. Purpose and scope. This standard establishes requirements for seats, their attachment assemblies, and their installation to minimize the possibility of failure by forces acting on the seat as a result of vehicle impact.

S2. Application. This standard applies to passenger cars.

S3. Requirements.

S3.1 General. Except for folding auxiliary jump seats and side-facing seats, each occupant seat installation shall withstand the loads specified in S3.1.1, S3.1.2, and S3.1.3.

S3.1.1 The following loads shall be applied simultaneously—

(a) Twenty times the weight of the entire seat in a forward longitudinal direction; and

(b) If the seat belt assembly is directly attached to the seat, the total load imposed on the seat by simultaneous application of maximum loads required by Motor Vehicle Safety Standard No. 209 for all attached seat belt assemblies.

S3.1.2 A load equal to 20 times the weight of the entire seat shall be applied in a rearward longitudinal direction.

S3.1.3 A load equal to a 3,300 inch pound moment about the "H" point for each occupant position for which the seat is designed shall be applied to the upper cross member in a rearward longitudinal direction.

S3.2 The seat adjusters need not be operable after the application of the loads specified in S3.1.1, S3.1.2, and S3.1.3.

S3.3 Folding and hinged seats. [Except for folding auxiliary seats and seats with backs which are adjustable for occupant comfort only, a hinged or folding seat or seat back shall be equipped with a self-locking, restraining device and a control for releasing the restraining device. (32 F.R. 5498—April 4, 1967)]

S3.3.1 The release control shall be readily accessible to the occupant of that seat and to the occupant of any seat immediately behind that seat, and shall be constructed to preclude inertial release when loaded longitudinally to 20g.

S3.3.2 The restraining device shall not release or fail when a forward longitudinal load equal to 20 times the weight of the entire seat back is applied at the center of gravity of the seat back.

S4. Demonstration procedures.

S4.1 Dynamic or static testing techniques may be used.

S4.2 Static testing of seats shall be conducted in accordance with Society of Automotive Engineers Recommended Practice J879, "Passenger Car Front Seat and Seat Adjuster," November 1963, using the values specified in and the procedures applicable to this standard.

S4.3 Distributed loads may be replaced by concentrated loads at the loading centroid.

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