SAFETY FEATURES

■ IMPACT ABSORBING STRUCTURE

1. General

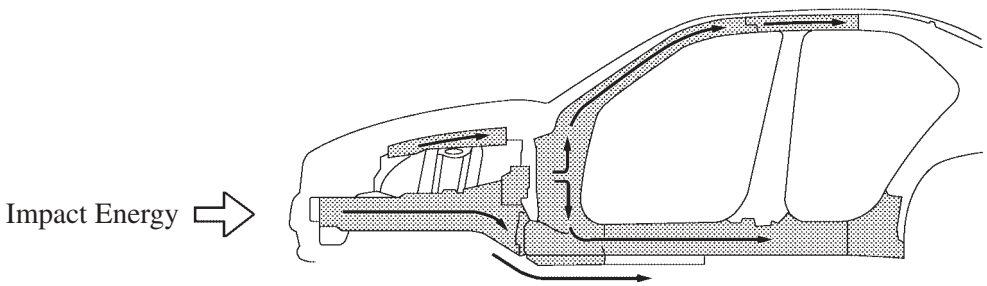
The impact absorbing structure of the IS200 provides a body construction that can effectively absorb the energy of impact in the event of a front or side collision. Also, it realizes an excellent occupant protection performance through the use of reinforcements and members that help minimize cabin deformation.

2. Construction

Impact Absorbing Structure for Front Collision

In conjunction with the revision made to the impact absorbing structure for a front collision, the cross section of the underbody members, pillars, and reinforcements have been increased in size and thickness of the material used.
According, the underbody and cabin framework were made to absorb and dissipate the impact energy efficiency in case of a front collision, thus realizing a body structure to minimize cabine deformation.

▶ Impact Absorbing Structure for Front Collision ◀



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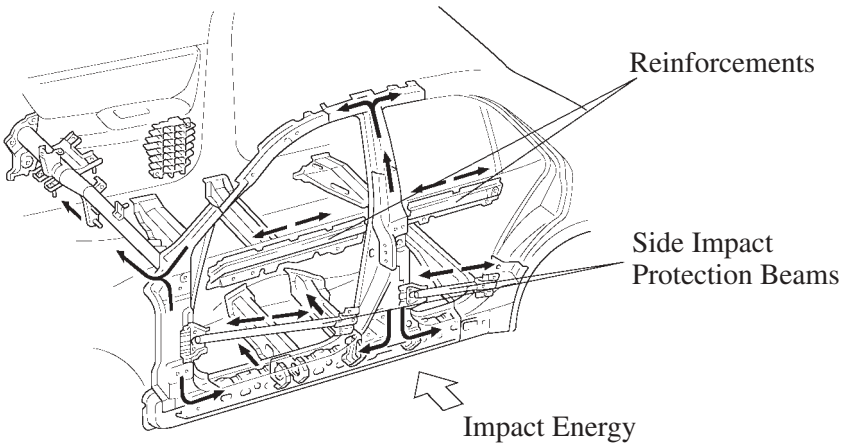
Impact Absorbing Structure for Side Collision

A pipe type side impact protection beams are mounted at the bottom of the front and rear doors.
Also, in order to make the door energy absorbent, the inner and outer reinforcements are applied to the belt line area of the front and rear doors.
Impact energy of a side collision directed to the cabin area is dispersed throughout the body via pillar reinforcements, side impact protection beams, floor cross members, etc. This dispersion of energy keeps the energy directed to the cabin to minimum level. In addition, the body is made highly rigid through reinforced joints and the use of high strength sheet steel in order to maintain the maximum preservation of the cabin space. And, in order to make the door energy absorbent, a closed cross section configuration is provided at the belt line area of the front and rear doors.
Also, a head impact protection structure has been adopted. With this type of construction, if the occupant's head hits against the roof side rail and pillar in reaction to a collision, the inner rids of the roof side rail and pillar collapses to help reduce the impact.

▶ Impact Absorbing Structure for Side Collision ◀



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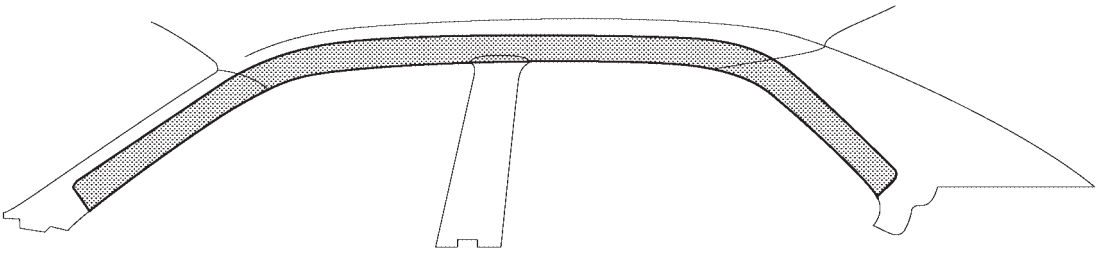
▶ Head Impact Protection Structure ◀

: Head Impact Protection



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