SAFETY FEATURES

■IMPACT ABSORBING STRUCTURE

1. General

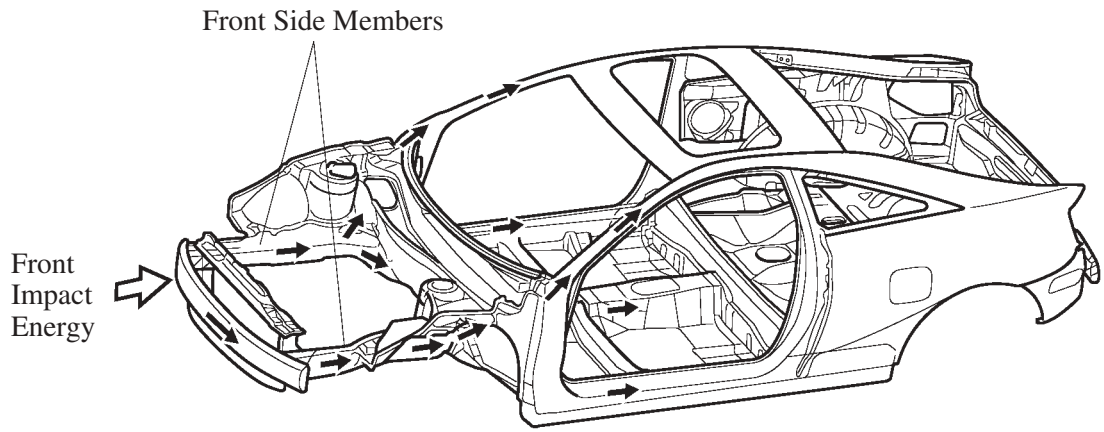
The impact absorbing structure of the new CELICA provides a body construction that can effectively helps absorb the energy of impact in the event of a front, or side collision. Also, it realizes a high level of occupant protection performance through the use of reinforcements and members that help to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

2. Construction

Impact Absorbing Structure for Front Collision

In conjunction with the high level of impact absorbing structure for a front collision, the front bumper reinforcement, the side members, the reinforcements and members that surround the cabin have been optimally allocated.
Accordingly, the frameworks of the underbody and cabin help to absorb and dissipate the impact energy efficiently, and to realize the minimized cabin deformation, in case of a front collision.
The impact of a front collision is effectively absorbed by thinner sheet metal used in the front of the side members.

▶ Impact Absorbing Structure for Front Collision ◀



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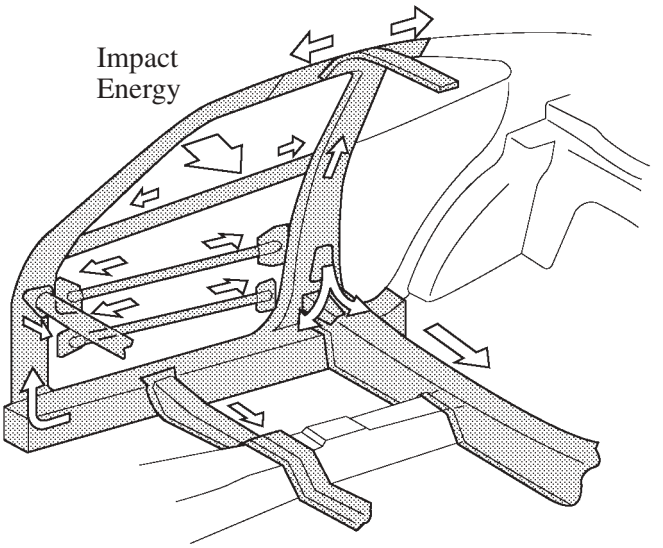
Impact Absorbing Structure for Side Collision

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 a minimum level. In addition, the cabin is made of reinforced joints and high strength sheet steel, in order to help 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 door.

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 panel of the roof side rail and pillar collapses to help reduce the impact.

The Head Impact Protection Structure, which consists of the front and center pillars containing thin-walled aluminum pipes, helps reduce the impact while ensuring the proper visibility and in-and-out access.

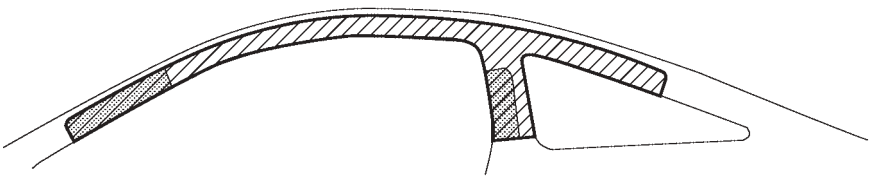
▶ Impact Absorbing Structure for Side Collision ◀



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▶ Head Impact Protection Structure ◀

: Head Impact Protection
: Thin-Walled Aluminum Pipe



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