

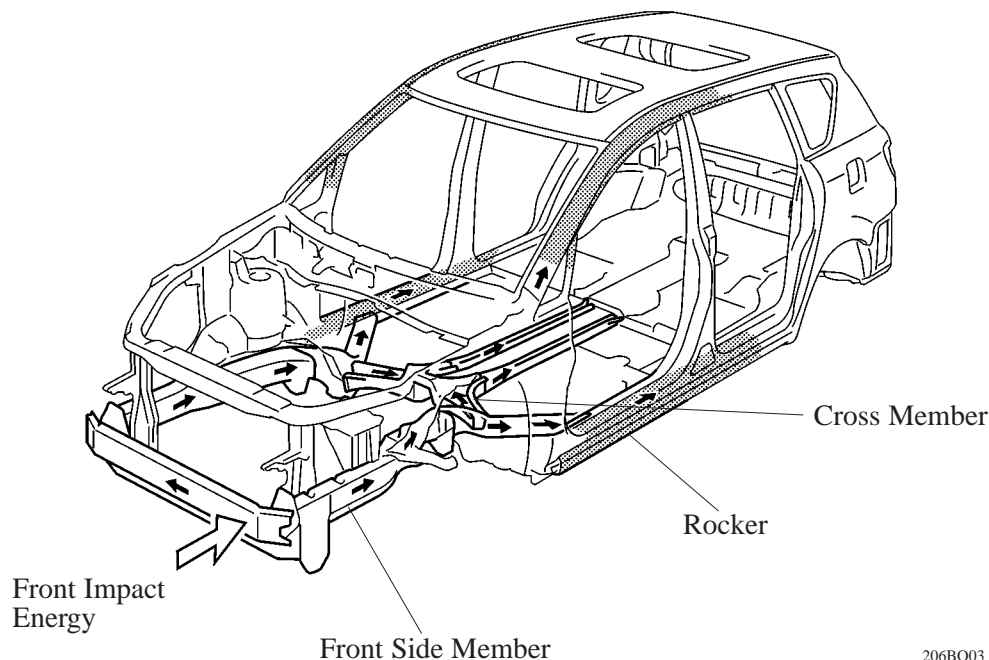
## ■ SAFETY FEATURES

### 1. General

The impact absorbing structure of the new Avensis Verso/Picnic can effectively help absorb the energy of impact in the event of a front, side, or rear collision. This structure also realizes high-performance occupant protection through the use of reinforcements and members that help to minimize cabin deformation.

### 2. Impact Absorbing Structure for Frontal Collision

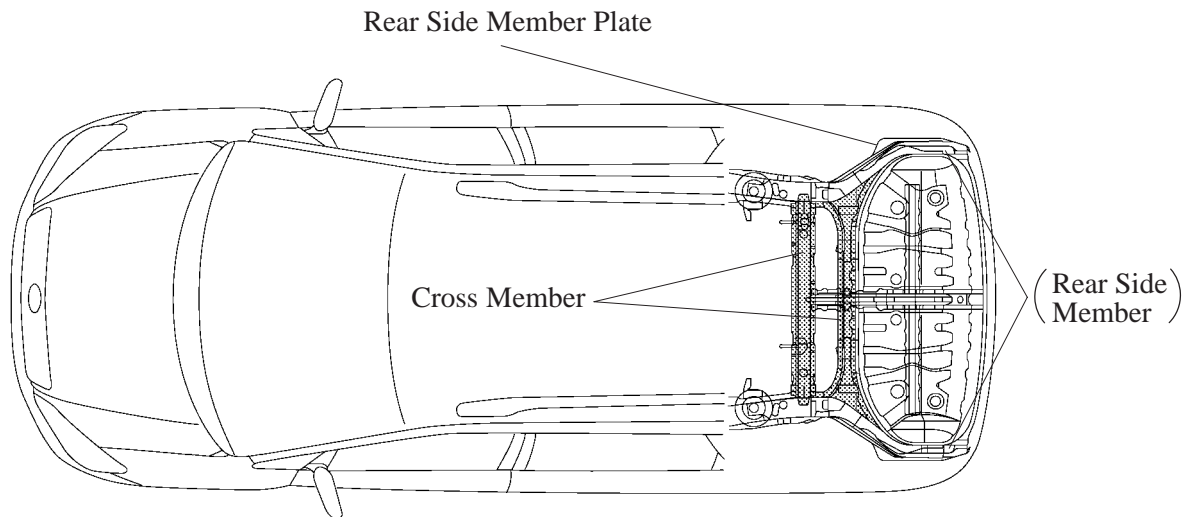
- The right and left side members are joined by a cross member, and the rear ends of the side members are connected to the rocker, thus creating a structure that absorbs the impact by dissipating the energy to both sides.
- Differential-thickness sheet steel is used at the front end of the front side members. The thinner front portion and the thicker rear portion enable the front end of the side members to collapse efficiently in order to effectively absorb the impact energy.
- Reinforcement has been established in the rocker area to ensure body rigidity.
- Reinforcement has been provided in the front area of the roof to help minimize cabin deformation.



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### 3. Impact Absorbing Structure for Rear Collision

- Differential-thickness sheet steel is used at the rear end of the rear side members and rear side member plates. The thicker front portion and the thinner rear portion enable the rear end of the side members and rear side member plates to collapse efficiently in order to effectively absorb the impact energy.
- Two cross members have been provided at the rear side members to prevent the side members from opening outward during a collision, thus helping to minimize cabin deformation.

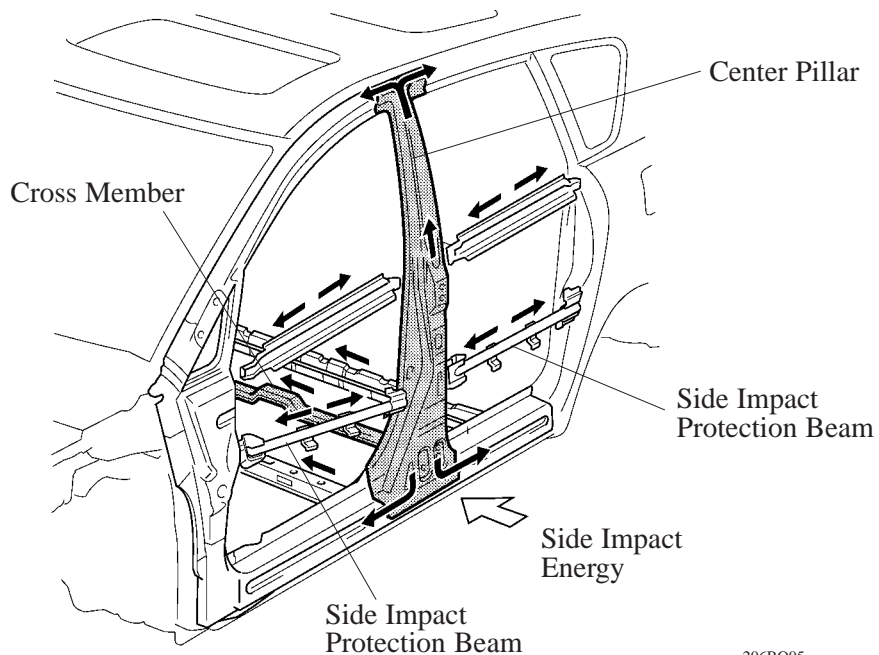


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### 4. Impact Absorbing Structure for Side Collision

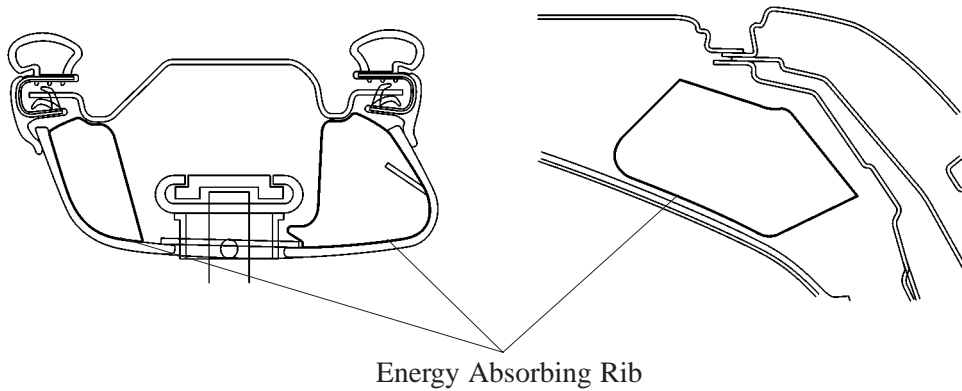
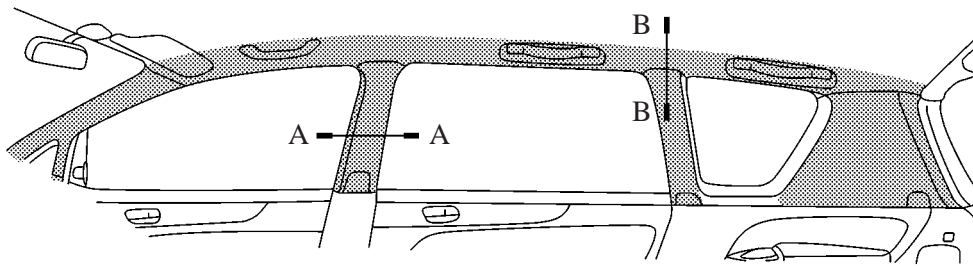
- A cross member has been provided directly below the center pillar to dissipate the impact energy.
- The thickness of the upper sheet steel of the center pillar reinforcement has been increased to increase body rigidity.



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- A Head Impact Protection Structure has been adopted. With this type of structure, if the occupant's head hits against the roof side rail and pillar in reaction to a collision, the Energy Absorbing Rib of the roof side rail and pillar collapses to help reduce the impact.

 : Head Impact Protection Structure Area



**A – A Cross Section**

**B – B Cross Section**