

■ IMPACT ABSORBING STRUCTURE

1. General

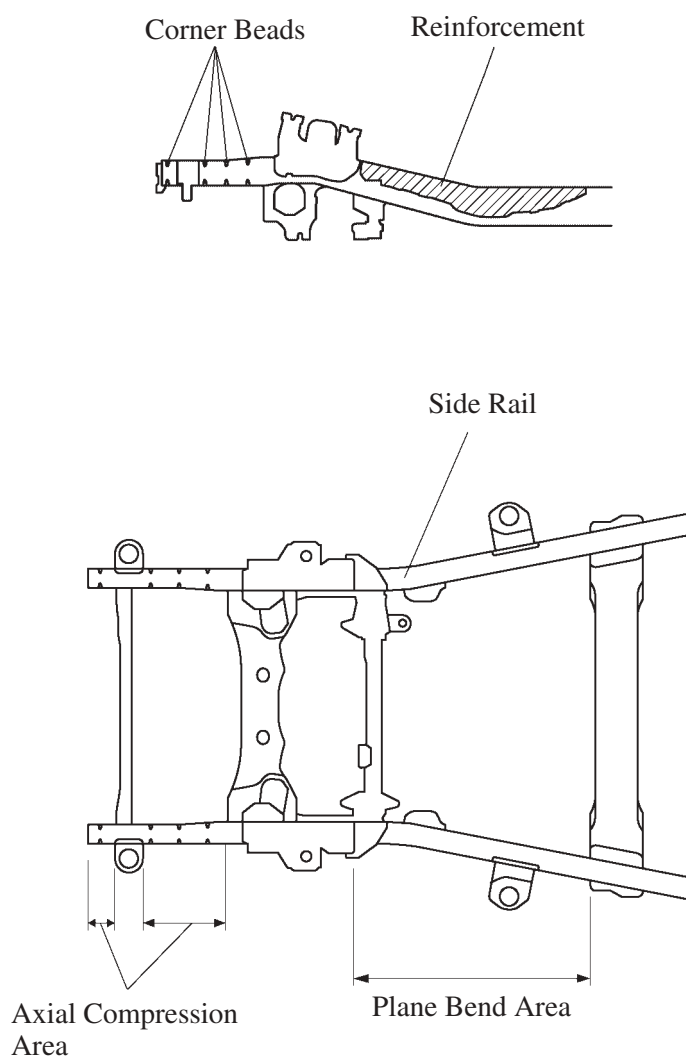
The impact absorbing structure of the new Land Cruiser provides a body and frame construction that can effectively absorb the energy of impact in the event of a front, rear or side collision.

Also, an excellent occupant protection performance has been realized by adopting a frame construction that effectively absorbs and disperses the impact energy, and a strong body construction has been made possible through the use of the large and optimally allocated frame materials around the cabin.

2. Construction

Impact Absorbing Structure for Front Collision

Corner beads have been provided in the front area of the side rail. Also, the cross section area of the side rail has been enlarged and reinforcements have been provided inside the side rail. Through these measures, the deformation of the frame can be controlled in accordance with the impact energy that is applied during a frontal collision, thus effectively absorbing the impact energy that is transmitted to the cabin and minimizing the deformation of the cabin.



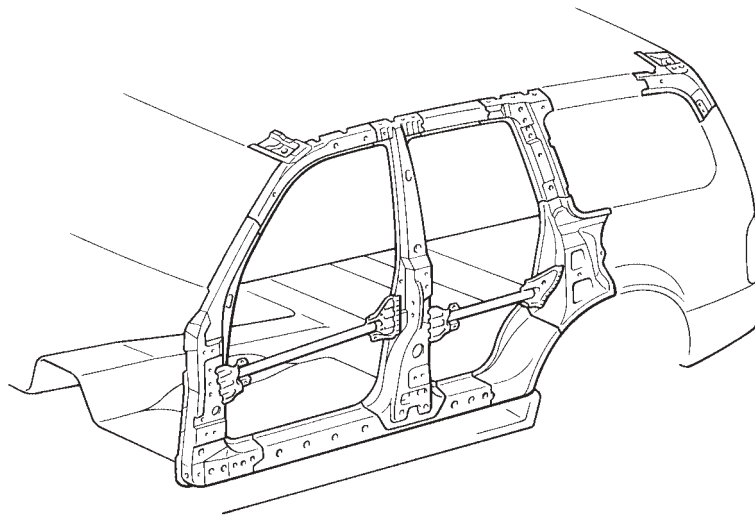
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Impact Absorbing Structure for Side Collision

- 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.
As a result, the deformation of the cabin is minimized.
- 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 ribs of the roof side rail and pillars collapse to help reduce the impact.

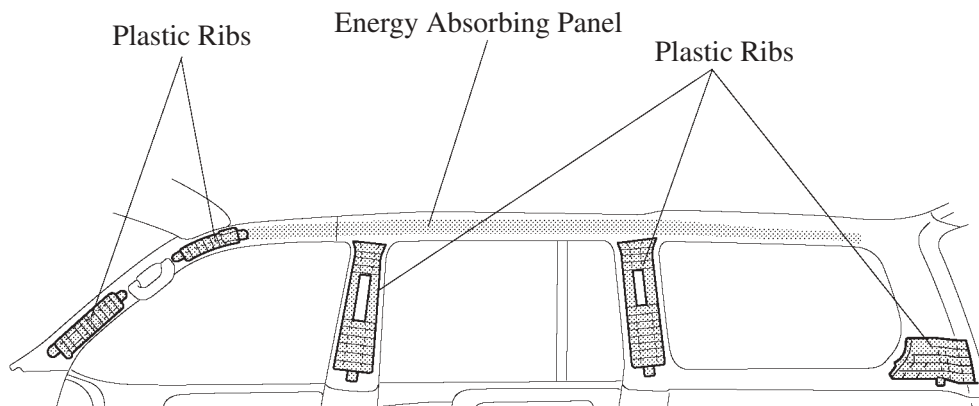
► Impact Absorbing Structure for Side Collision ◀



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► Head Impact Protection Structure ◀



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