

SAFETY



Passive Safety

We carry on a constant and thorough search to discover and implement everything that can be done to the car to make it safe; just in case.

SRS Airbag System

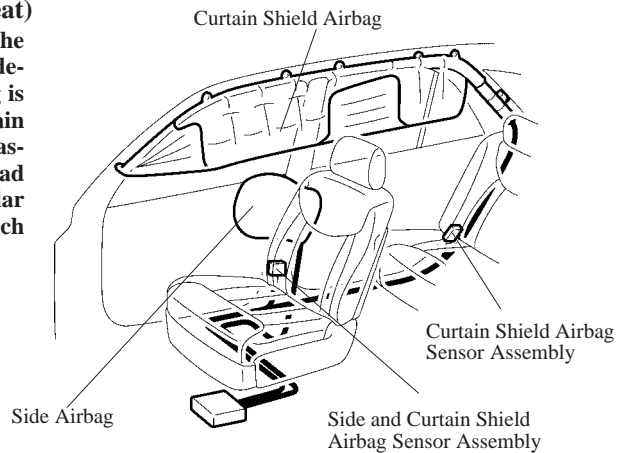
The LS430 is equipped with SRS (Supplement Restraint System) front airbags and SRS side airbags on both driver and front passenger; it's also equipped with curtain shield airbags, front and rear, to help prevent secondary injuries during collisions.

- **2-stage Airbag System for Front Passenger**

Two newly installed electrical (deceleration sensor) type front airbag sensor assembly mounted on the center floor under the instrument panel.

- **Curtain Shield Airbag (Front/Rear Seat)**

If the sensors, mounted in the bottom of the center pillar and of the rear quarter pillar, detects an impact from the side, a side airbag is deployed, and at the same time, a curtain shield airbag is deployed. This enables the passengers to avoid direct impact to the head from objects inside the car, such as the pillar garnish, and from objects outside the car, such as power poles.



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Seat Belts with Pretensioner and Force Limiter

Seat belt for the front seats and the rear outside seats are equipped with pretensioners, which snugly restraint the occupants at the time of a collision, and force limiters, which soften the impact to the chest from the seat belt itself.

Head Impact Protection Structure

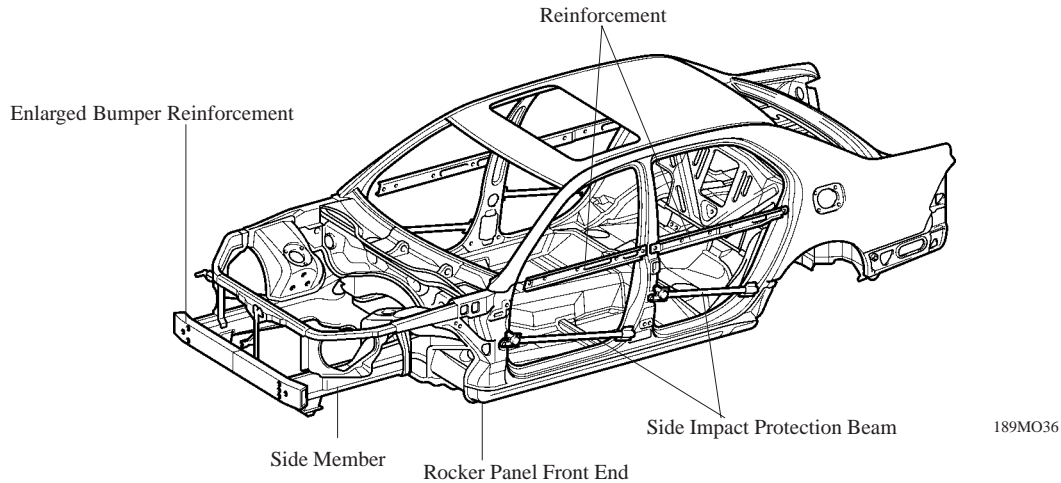
A head impact protection structure has been adopted. With this type of construction, if the occupant's head hits against the roof side rail and pillar in reaction to a collision, the inner panel of the roof side rail and pillar collapses to help reduce the impact.

Laminated Door Glass (Option)

2-layer laminated glass is used for all the door windows. In the event of an accident, etc., pieces of broken glass are prevented from scattering. Laminated glass can shut out ultraviolet rays approximate 100%, which consequently presents deterioration of interior trim from sunshine.

Impact Absorbing Structure

The impact absorbing body adopted for the new LS430 effectively absorbs and distributes the impact from front and side collision to ease the impact on the driver and passengers, and the high-strength cabin minimizes deformation of the cabin itself.



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Compatibility

Enlarged bumper reinforcement for impact in wide area of another vehicle for considering harmness. Adopted tailored blank to front side member and front end of member for crushable construction for consideration.

Frontal Collision

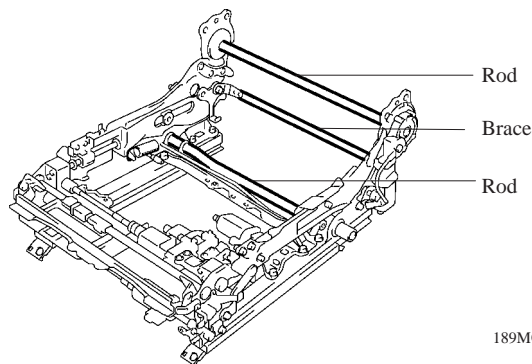
The side member, as an impact absorbing structure, strengthens parts connected to the cabin, to minimize cabin deformation.

We raised the edge in front of the rocker panels to create a crumple zone, which enables impact absorption and also minimizes cabin deformation.

Side Collision

Impact absorbing efficiency has been provided by placing a side impact protection beam inside the door, to reinforce it.

The front seat rod and brace have been provided, allowing the energy of a side collision to be transmitted to the floor tunnel in order to minimize the deformation of cabin space.



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Reasonable Repair Cost

LS430's large bumper reinforcements absorb collision impact across a boarder area and strengthened body structure help to keep damage low level to large and expensive parts.