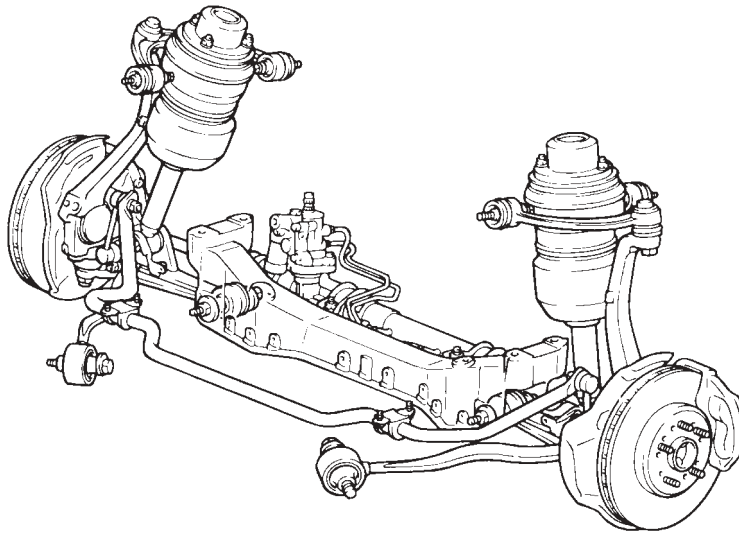


■ FRONT SUSPENSION

1. General

A double-wishbone type independent suspension with high-mount upper arm has been adopted. This suspension system provided high lateral rigidity while ensuring a high level of stability, controllability, and riding comfort.

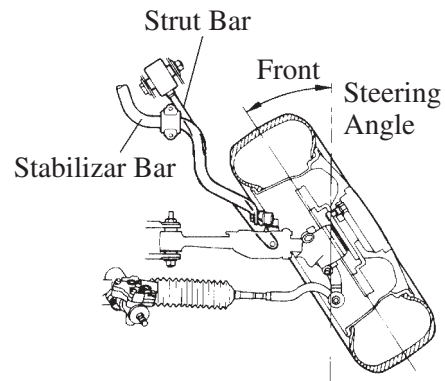


162CH36

RHD Model

2. Steering Angle

A large steering angle has been provided by optimizing the location and the shape of the front stabilizer bar and the strut bar and by ensuring the amount of rack stroke. Thus, the minimum turning radius of 5.7m has been achieved despite the vehicle's long wheelbase.

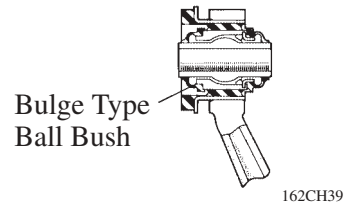
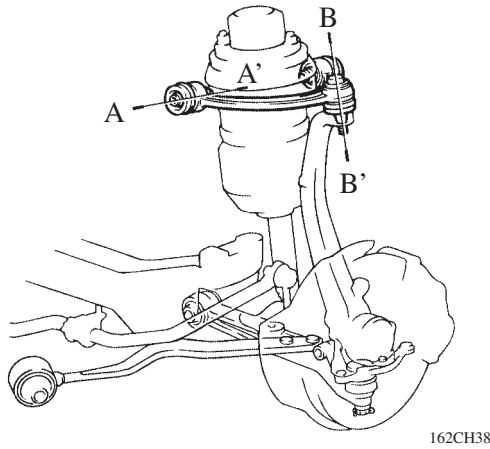


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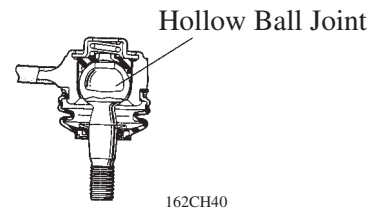
Top View

3. Upper and Lower Arms

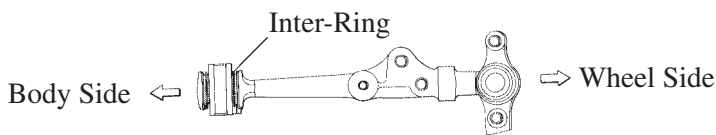
- Upper and lower arms made of forged iron, which have an I-shaped cross section that provides high lateral rigidity, have been adopted.
- To enhance riding comfort, a bulge type ball bushing, which is harder in the radial direction but softer in the thrust direction, has been adopted on the body side of the upper arm, and a hollow ball joint has been adopted on the axle side.
- The lower arm bushing has a steel inter-ring which makes the arm more flexible to force applied in the axial and torsional directions, and harder to a force perpendicular to the axis, providing good controllability and riding comfort.



Upper Arm A – A' Cross Section



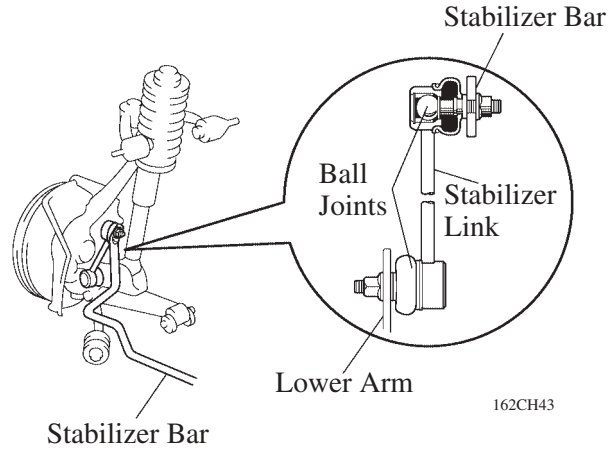
Upper Arm B – B' Cross Section



Lower Arm

4. Stabilizer bar

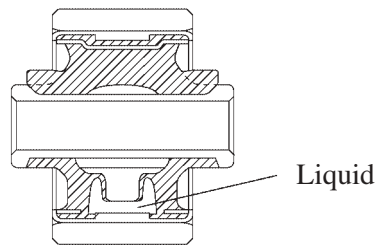
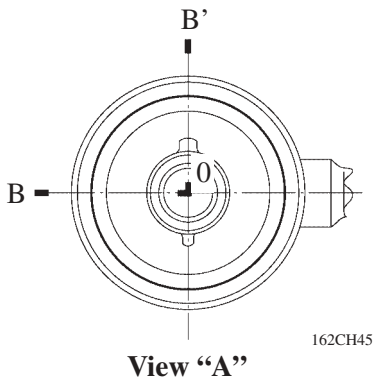
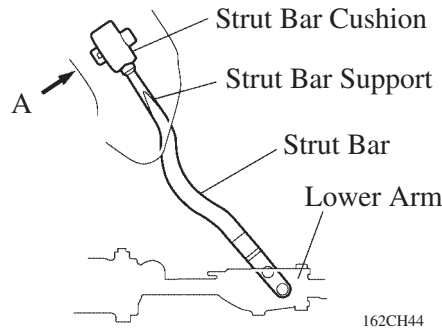
The stabilizer bar is made of a hollow bar, reducing the weight. A ball joint is used between the stabilizer link and the stabilizer bar, and between the stabilizer link and the lower arm. This helps reduce suspension friction and increase link rigidity. As a result, the ball joints perform effectively even for slight rolling and maintains stable roll feeling.



5. Strut Bar

A strut bar made of forged iron has been adopted, and the anti-dive geometry effect has been increased by optimizing the position in which the strut bar is mounted to the body. Also, by optimizing its shape, the steering angle has been increased.

A liquid-filled cushion is used for mounting the strut bar to the body in order to effectively dampen the bumps and dips on the road.



B - O - B' Cross Section

Strut Bar Cushion