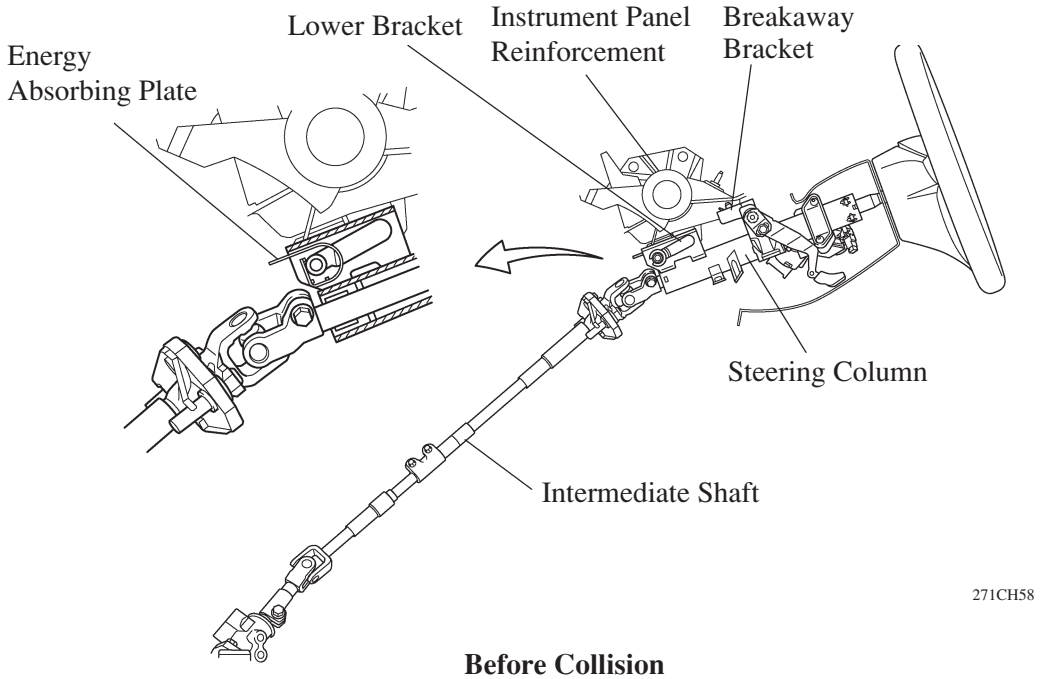
■ENERGY ABSORBING MECHANISM

1. General

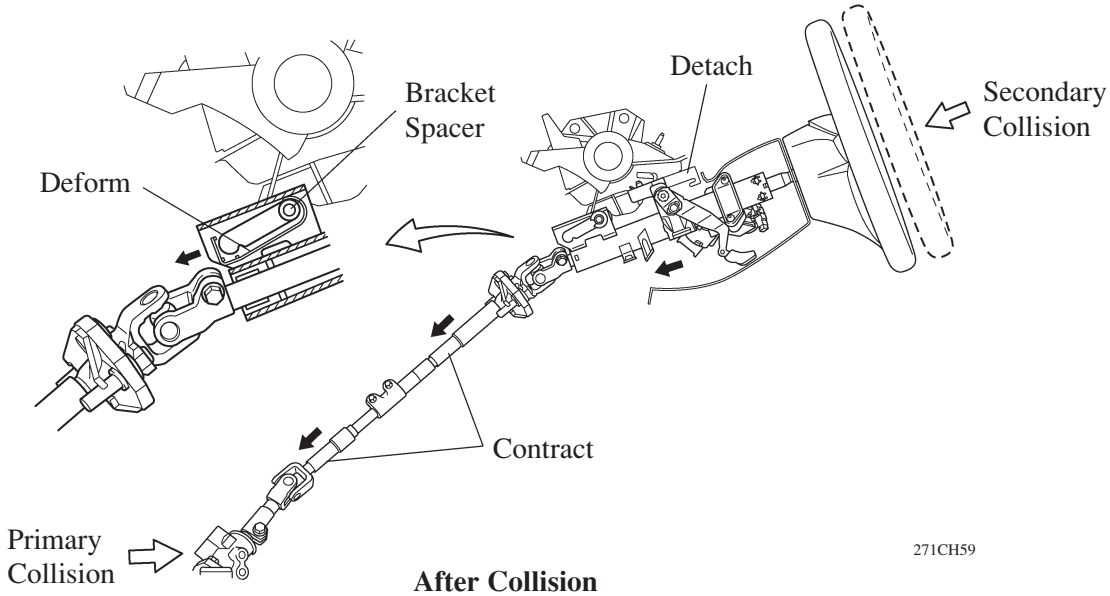
The energy absorbing mechanism in the steering column consists of a lower bracket, breakaway bracket, intermediate shaft and energy absorbing plate. The steering column is mounted onto the instrument panel reinforcement via a lower bracket and breakaway bracket. The steering column and the steering gear box are connected with a contractile intermediate shaft.

2. Operation

- When the steering gear box moves during a collision (primary collision), the intermediate shaft contracts, thus helps reduce the chance that the steering column and the steering wheel protrude into the cabin.
- When an impact is transmitted to the steering wheel in a collision (secondary collision), the steering wheel and the driver airbag help absorb the impact. In addition, the breakaway bracket and the lower bracket separate, causing the entire steering column to move forward.
  At this time, the energy absorbing plate becomes deformed to help absorbing the impact of the secondary collision.



Before Collision



After Collision