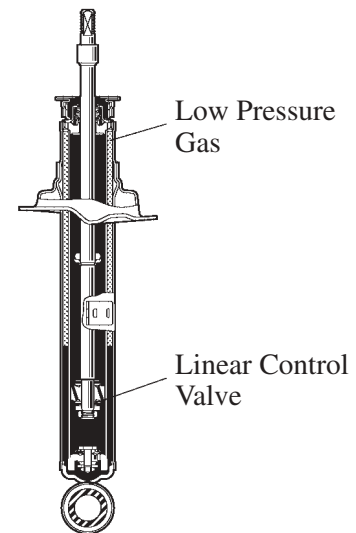


SUSPENSION

SHOCK ABSORBER

1. General

A linear control valve has been adopted in the front and rear shock absorbers of the IS300/IS300 SportCross models to realize both driving stability and ride comfort.



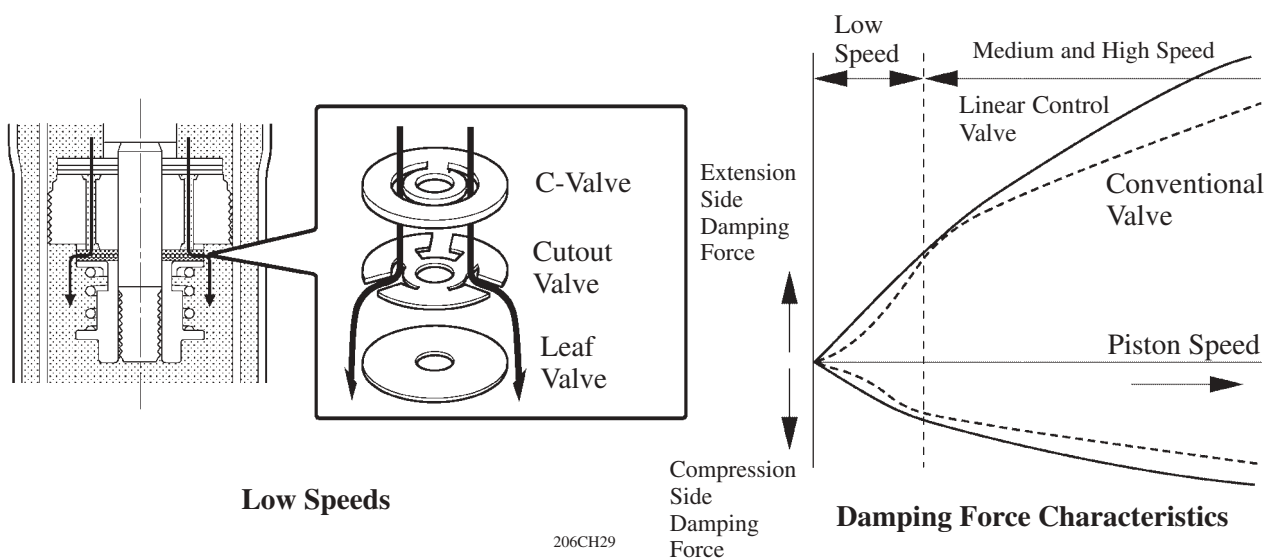
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Service Tip

To prevent hazardous conditions, make sure to empty the gas from the shock absorber before discarding a low-pressure (N₂) gas sealed shock absorber. For details, refer to the LEXUS IS300/200 Repair Manual Supplement (Pub. No. RM870E).

2. Linear Control Valve

The linear control valve consists of a C-valve, a cutout vale, and a leaf valve. These valves have adopted a laminate construction and form orifices. When the vehicle is rolling due to a steering operation, the piston in the shock absorber is in the low-speed state. At that time, the oil flows through the cutouts of the valves to achieve a linear damping force. Through the adoption of the linear control valve, the changes in the damping force are made constant at low piston speed, thus making the vehicle behave more smoothly in relation to the steering operation.



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