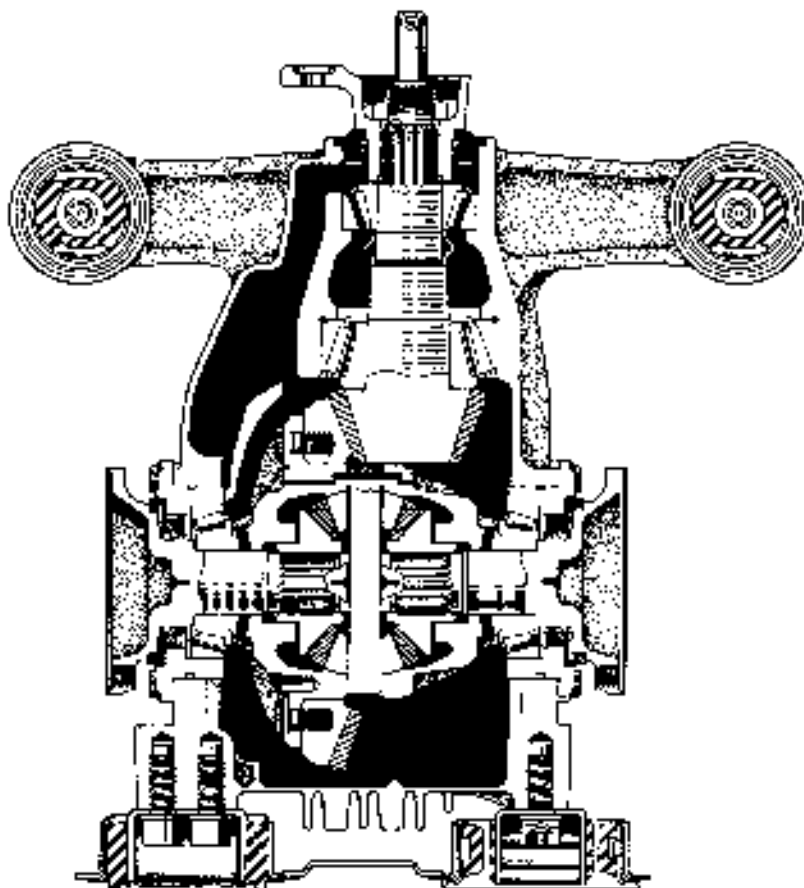


## DIFFERENTIAL

### ■ DESCRIPTION

The differential of the SC400 is the same 2–pinion hypoid gear type differential as in the LS400. The basic construction and operation are the same as in the LS400, but it differs mainly in the following points.

- Gear Ratio
- Support method in the differential case.
- Method of mounting the differential on the suspension member.



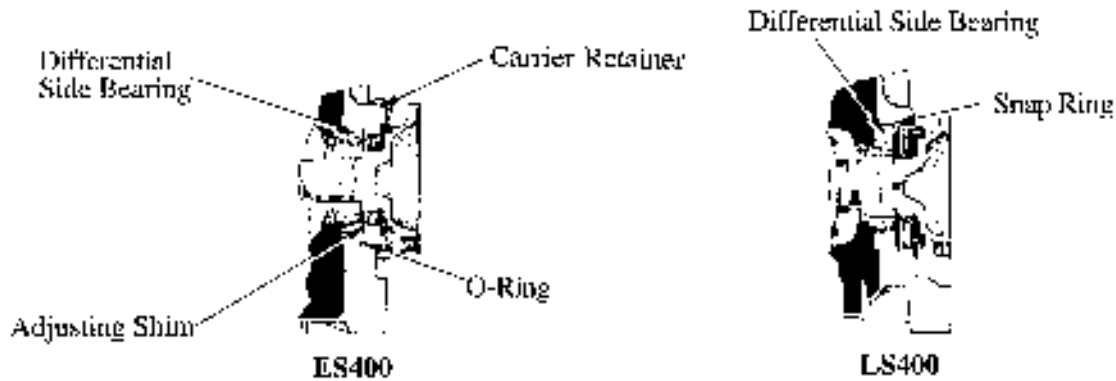
### ► Specifications ◀

Model		SC400	LS400
Item			
Differential Gear Ratio		3.916	3.615
Drive Pinion	No. of Teeth	12	13
Ring Gear	Size	8"	←
	No. of Teeth	47	←
No. of Differential Pinion		2	←

## ■ DIFFERENTIAL CASE

The hypoid gear is basically the same as in the LS400, but the support method of the differential case differs. In the LS400, this gear is supported by a snap ring, but in the SC400, it is supported directly by a carrier retainer.

The carrier retainer is mounted in the differential carrier via O-rings with bolts on the left and right sides of the carrier retainer.



### Service Tip

When making the total preload adjustment, select adjusting shims of the proper thickness for installation between the carrier retainer and the differential side bearing. For the adjustment method, see the SC400 Repair Manual (Pub. No. RM221U1).

## ■ DIFFERENTIAL SUPPORT

As in the LS400, a double vibration-preventive design with a rubber mount is used for the differential support, but in the SC400, the differential support is supported at 2 points on the front of the differential while on the rear right side a fluid seal type mount with excellent quietness is used.

