

## DIFFERENTIAL [FW6A-EL, FW6AX-EL]

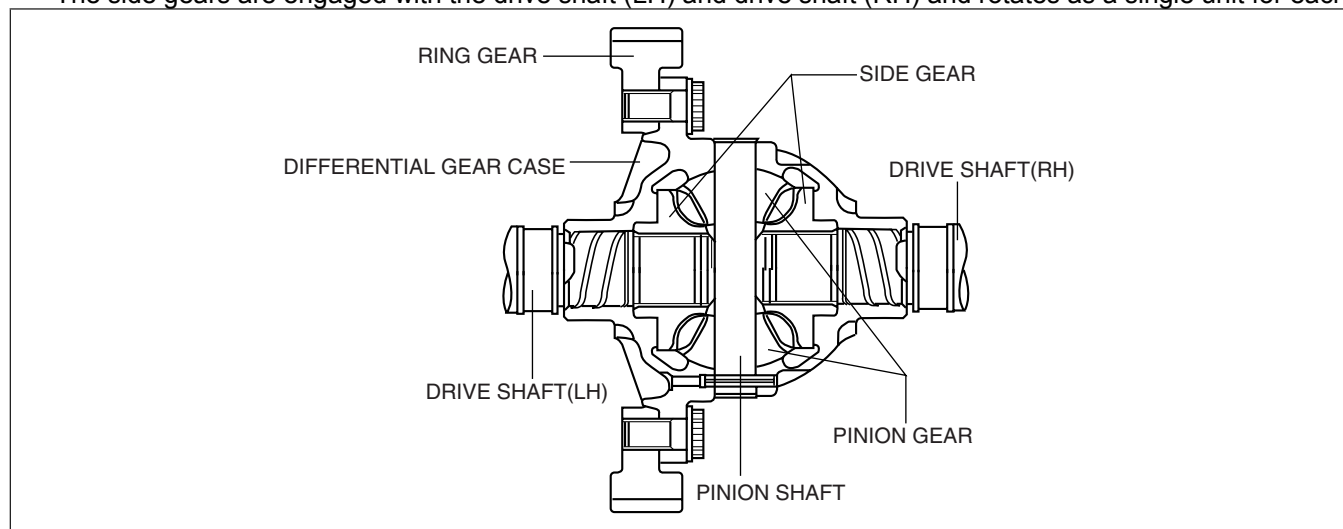
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### Purpose/Function

- The differential absorbs the difference in the rotation speed between the left and right driving wheels so that the vehicle drives smoothly when differences occur due to cornering or driving on rough roads.

### Construction

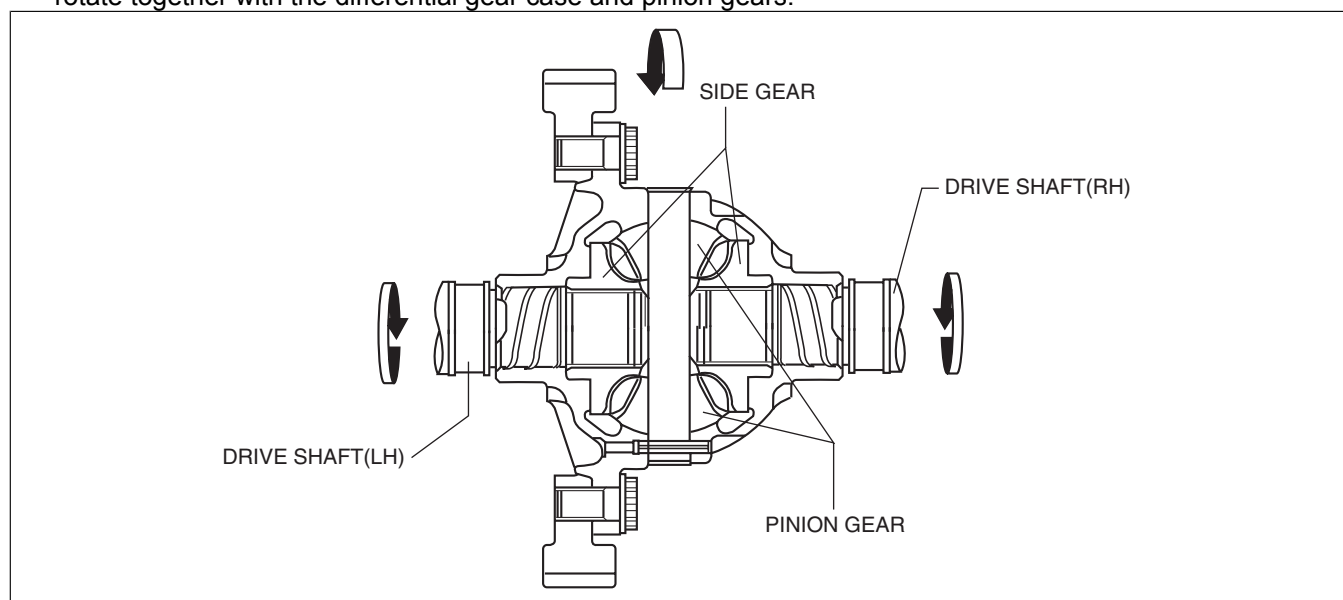
- The differential consists of the ring gear, differential gear case, side gears, pinion gears, and pinion shaft.
- The differential gear case is engaged with the ring gear and rotates as a single unit.
- The side gears are engaged with the drive shaft (LH) and drive shaft (RH) and rotates as a single unit for each.



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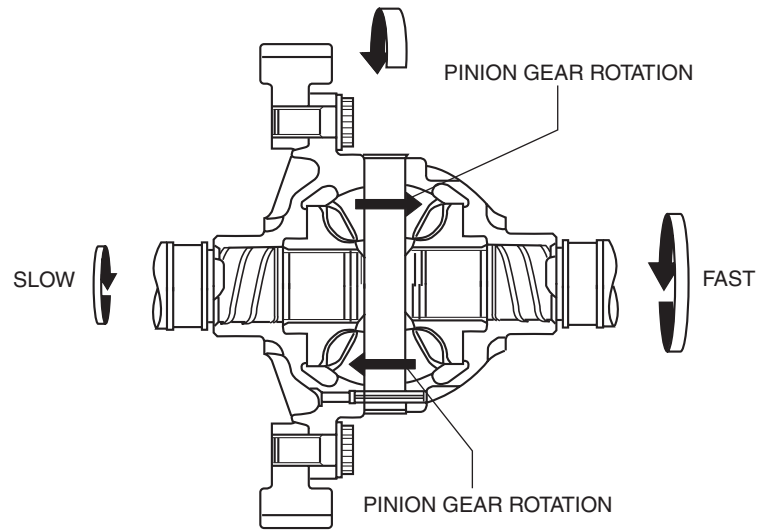
### Operation

- If there is no difference in rotation speed between the left and right driving wheels, the left and right side gears rotate together with the differential gear case and pinion gears.



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- If there is a difference in the rotation speed between the left and right driving wheels, the difference in the rotation speed between the left and right side gears is absorbed by the pinion gears rotating around the pinion shaft.



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