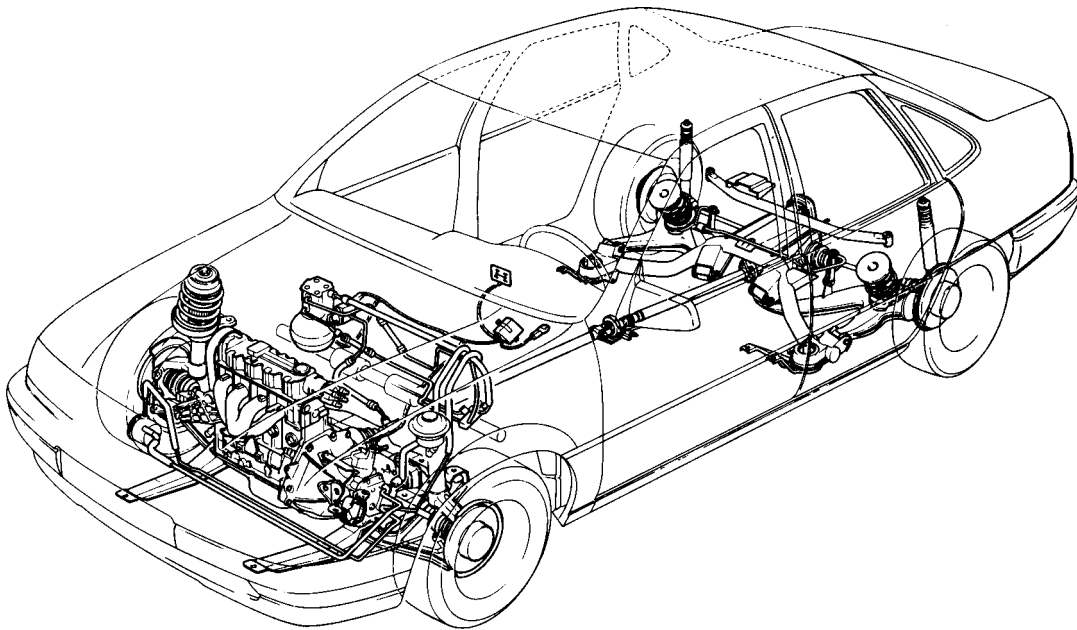


General

The Vectra-A/Cavalier and Calibra were the first cars fitted by Opel with a permanent working all wheel-drive. The distribution of the driving powers between the front axle and the rear axle is achieved by a hydraulic clutch (visco clutch) integrated into the transferbox. The amount of power directed to the rear axle depends on the differences in rpm between front and rear wheels.



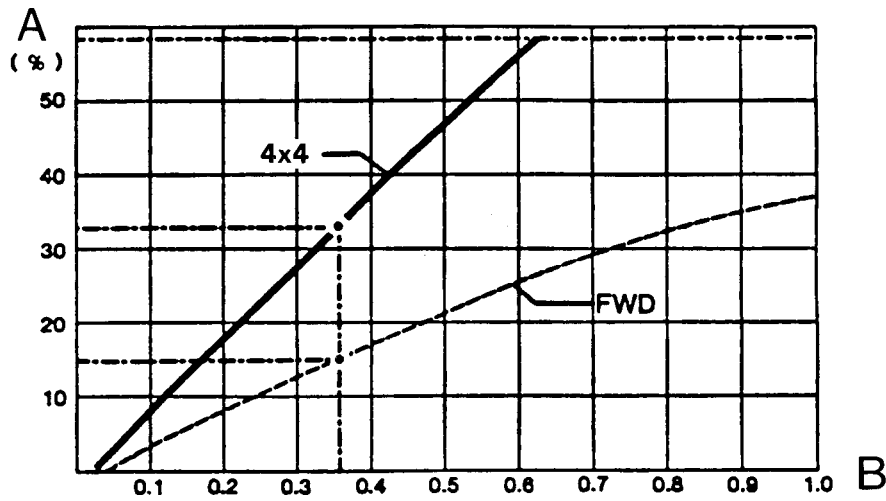
A new invention by Opel is the fact, that the AWD separates the rear axle by a multiple disk clutch controlled hydraulically from the front axle with a driving speed over 25 km/h. The multiple clutch is integrated into the transferbox.

● **Service, important!**

During dyno runs the AWD must switch off by pulling fuse 19.

The advantages of the AWD are

- good propulsion, also on slippery roadway
- small slip with accelerating
- increased grade ability on smooth roadway



The upper picture shows the grade ability (A) at a certain friction value (B), divided into AWD and standard front wheel drive. The friction is substantially increased by the permanent AWD. That becomes particularly apparent when starting and driving on difficult hilly stretches with snow and ice on the road.

Driving with all mentioned road conditions is problem-free. There is no need to worry about to be stuck on obstacles.

During breaking the same attention as with normal front wheel drive is required.