4 Wheel Active Steer (4WAS)

The 4WAS (4 Wheel Active Steer) system assists drivers by automatically controlling the steering angle of a vehicle’s four wheels according to speed. By controlling the steering angle of all four wheels, this active steering system helps improve stability and response at high speed and helps reduce driver’s steering workload at low speed.

Features of the 4WAS System

- Vehicles move smoothly and are easy to drive both in the city and on winding roads
- Added stability means vehicles can be driven safely on expressways and when changing lanes
- Quick and responsive control system will allow gentle steering operation

Avoiding an obstacle during expressway driving

The driver can follow the intended target line while maintaining vehicle stability.

Components of the 4WAS System

Front-wheel steering actuator
An actuator is placed along the intermediate steering shaft, actively controlling the output shaft in response to steering operations.

Steering angle sensor

Main controller
Controlling rear-wheel steering actuator

Rear-wheel steering actuator
Attached to the suspension member to steer the rear wheels.