

Model all (CAR)**Overview**

This document contains information on:

- **General**
- **Function requirements**
- **Function**

General

The damping mode selected by the driver adjusts the damping behavior on specific wheels to the road surface condition and the driving style.

Within the selected drive program, the vehicle's damping behavior is regulated depending on the road surface condition and the driver's driving style.

Function requirements

- Ignition ON (circuit 15)

- Drive train operational
- Vehicle speed >0 km/h

Function

Damping mode can be selected by the driver using the DYNAMIC SELECT switch.

The adaptive damping system control unit determines the optimal damping stage in each case and actuates the damping valve units of the four shock absorbers.

The damping valve units are mounted in the damper on the piston rod. The damping valve unit regulates the amount of oil flow from one chamber to another by changing the flow area.

The characteristic of the dampers can be changed using the amount of oil flow. For strong damping, the coil in the damping valve unit remains deenergized.

The flat slide valve closes the flow to the comfort valve and the entire oil flow must pass the main piston.

During acceleration, braking or steering maneuvers, damping is adjusted harder in order to reduce the body's pitch and rolling motions and optimize wheel loads and adhesion of the tires.

	Further basic functions		
	Damping valve unit, basic function		GF32.32-P-2002A
	Control units		
	Adaptive damping system control unit, basic function		GF32.32-P-9891A