Model   all (CAR)

Overview
This document contains the following information:
- **General**
- **Function requirements**
- **Speed control**
- **Shutoff conditions**

General
Speed control independently accelerates and decelerates the vehicle to a defined value. The driver can remove his foot from the accelerator pedal. Speed control ensures relaxed driving. It is activated as soon as the driver defines a speed value.

Function requirements
- Engine running or drivetrain operational
- Vehicle in forward travel
- Vehicle speed over 20 km/h

Speed control
 Speed control adapts the vehicle speed to the specified speed value. In doing so, speed control accelerates or decelerates the vehicle.

If the vehicle is accelerated to overtake, the set specified speed remains stored. If the foot is taken off the accelerator pedal again after the overtaking maneuver, speed control returns to the specified speed value.

Vehicles with Driving Assistance Package:
Indicated speed limits registered by the traffic sign recognition system or location-related limitations from the navigation system can be adopted as the specified speed.

Shutoff conditions
Speed control is shut off under the following conditions:
- Vehicles with manual transmission:
  - Very low engine speed
  - Engine speed near the maximum engine speed
  - transmission in neutral
  - Clutch pedal operated
- Brake pedal operated
- Electronic Stability Program (ESP®) shut off
- ESP® regulating
- Braking request from an external system

	Function schematics		
	Function schematic for detection of transmission position	Model 118, 177, 247Model 167Model 293	PE27.19-P-2500-97A
	Regulate speed, function schematic	Model 118, 177, 247, 293 except code 239 (Active Distance Assist DISTRONIC) except code 23P (Driving Assistance package)Model 167 except code 239 (Active Distance Assist DISTRONIC) except code 23P (Driving Assistance package) except code P20 (Driving Assistance package Plus)	PE30.30-P-2501-97A
		Model 118, 167, 177, 247, 293 with code 239 (Active Distance Assist DISTRONIC)Model 118, 167, 177, 247, 293 with code 23P (Driving Assistance package)Model 167 with code P20 (Driving Assistance package Plus)	PE30.30-P-2501-97B
	Subsystems		
	Increase speed, basic function		GF30.30-P-1000A
	Reduce speed, basic function		GF30.30-P-1001A
	Traffic sign recognition, basic function	Model all (CAR) with code 513 (Traffic Sign Assist)	GF54.30-P-9901A