

GF46.50-P-5140GZ

SPS [PML] solenoid valve, component description

13.12.05

MODEL 164

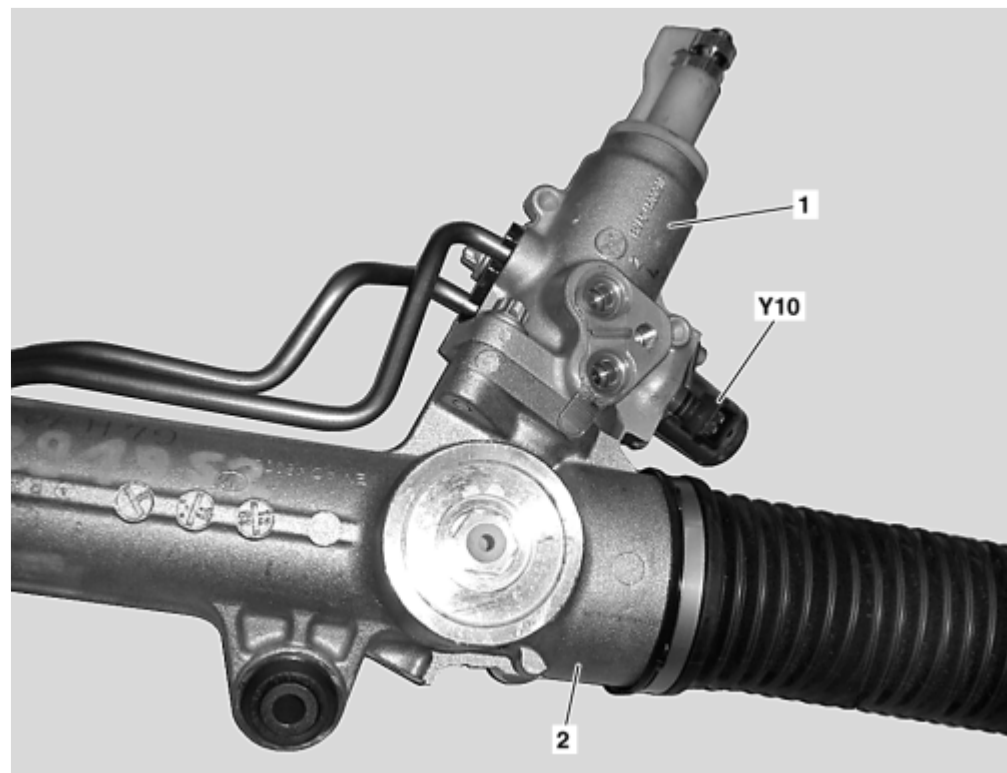
Shown on model designation 164.1

1 Rotary valve and control bush housing
2 Rack-and-pinion steering

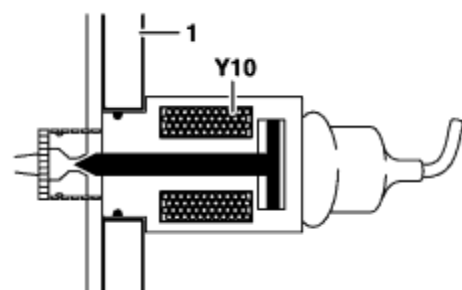
Y10 SPS [PML] solenoid valve

The SPS [PML] solenoid valve serves the control of the steering wheel torque in the vehicle speed range of $v = 0$ km/h to $v = 100$ km/h.

The SPS [PML] solenoid valve is a flow-controlled proportioning valve.

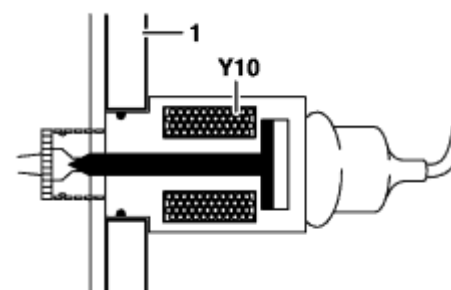


P46.50-2032-06



**SPS [PML] solenoid
valve open**

**SPS [PML] solenoid
valve closed**



P46.50-0203-01

P46.50-0202-01

Function

The electronics for the actuation of the SPS [PML] solenoid valve are integrated in the ESP control unit (N47-5). The SPS [PML] solenoid valve is actuated in a pulsed manner. As the vehicle speed increases, the current flow reduces and the SPS [PML] solenoid valve continuously opens the control valve as per a characteristic defined in the ESP control unit.

This regulates the oil flow and thus the torque to be applied to the steering wheel. If the SPS [PML] solenoid valve is actuated with the maximum current ($v = 0$ km/h), the control valve is closed. As a result there is no oil flow and the smallest steering wheel torque to be used is adjusted (parking situation).