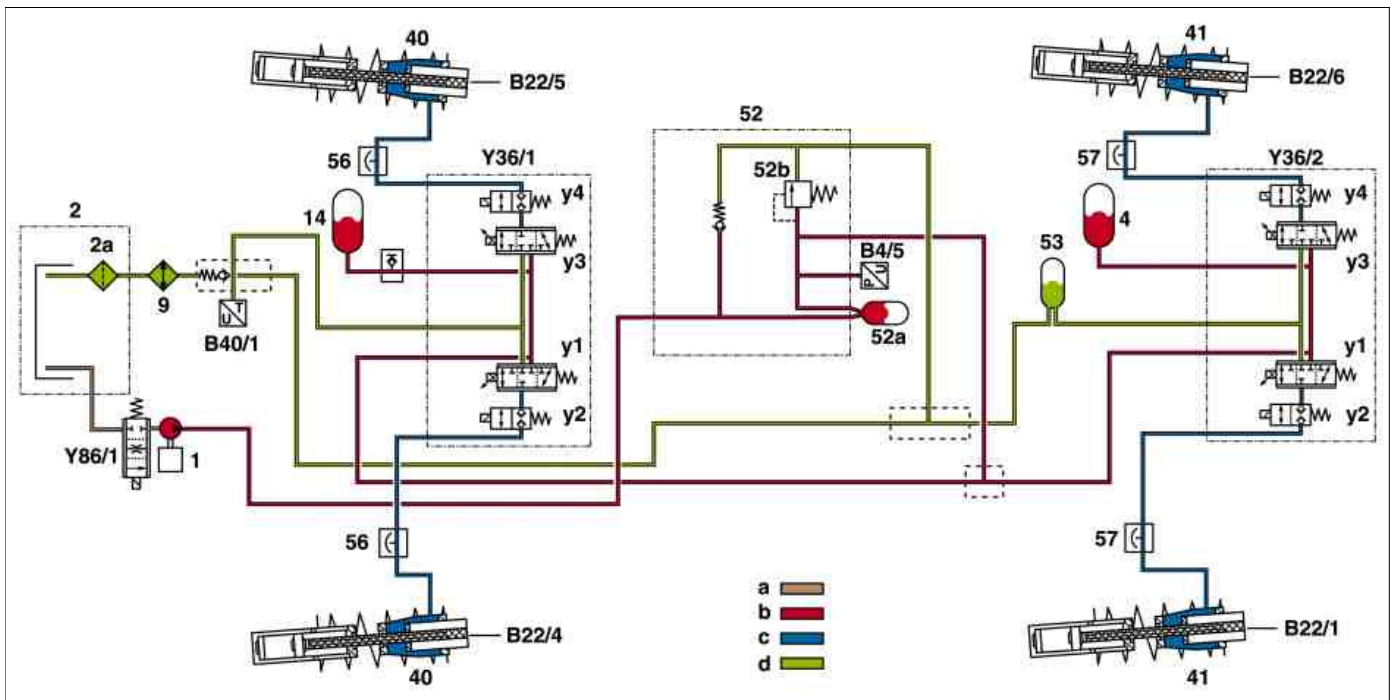


MODEL 215, 220,

230 up to 28.2.06 with CODE (487) Active body control (ABC)



P32.50-2012-79

a	Suction pipe	52	Pressure supply valve unit	Y36/1	ABC front axle valve unit
b	Working pressure	52a	Pulsation damper	y1	Left front suspension strut control valve
c	Control pressure	52b	Valve pressure limiting valve	y2	Left front suspension strut shut-off valve
d	Return flow	53	Return flow pressure reservoir	y3	Right front suspension strut control valve
1	Radial piston pump	56	Front bleeder screw	y4	Right front suspension strut shut-off valve
2	Oil reservoir	57	Rear bleeder screw	Y36/2	ABC rear axle valve unit
2a	Oil filter	B4/5	ABC pressure sensor	y1	Left rear suspension strut control valve
9	Oil cooler	B22/1	Left rear plunger travel sensor	y2	Left rear suspension strut shut-off valve
14	Front axle pressure reservoir	B22/4	Left front plunger travel sensor	y3	Right rear suspension strut control valve
40	Front suspension strut	B22/5	Right front plunger travel sensor	y4	Right rear suspension strut shut-off valve
41	Rear suspension strut	B22/6	Right rear plunger travel sensor	Y86/1	ABC suction restrictor valve
		B40/1	ABC oil temperature sensor		

The suspension and damping in the case of the active body control is performed by a hydraulic positioning cylinder (plunger) in each spring strut for the low-frequency body movements (up to approx. 5 Hertz). This cylinder alters the position of the base point of the coil spring for this purpose.

This makes it possible to minimize and optimally damp the following body movements:

- in the direction of the vehicle vertical axis (lift), produced in particular by uneven road surfaces.
- about the vehicle transverse axis (pitch), produced by braking and accelerating as well as undulating road surfaces.
- about the vehicle longitudinal axis (roll), produced in particular by cornering and by a road surface with a differing degree of flatness on the left and right.

The higher-frequency oscillations of the wheels are insulated vis-à-vis the body and damped in a conventional way by means of passive elements (steel springs and shock absorbers with a uniform setting).

	Pressure supply, function	GF32.22-P-4010B
	ABC control module, location/task/function	GF32.50-P-4500A