

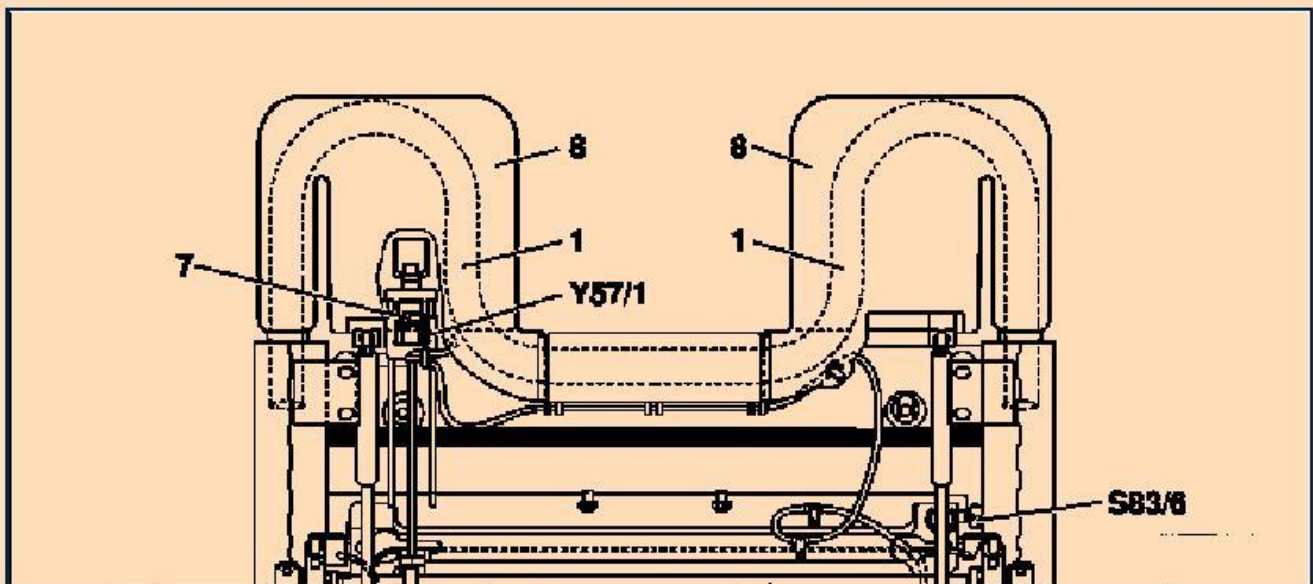
Werkstattinformationssystem Display Document

Sales designation: CLK 200 Cabriolet	Vehicle ident. number: WDB208435*	Engine number: 111.945	Automatic transmission: 722602	Gr.: 77.30	Entrv. Mod.Y.: Op. no.:
GF91.59-P-0001KA		Roll bar (RB), function		Full-size view	Validity OFF
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GF91.59-P-0001KA	Roll bar (RB), function	4.2.98
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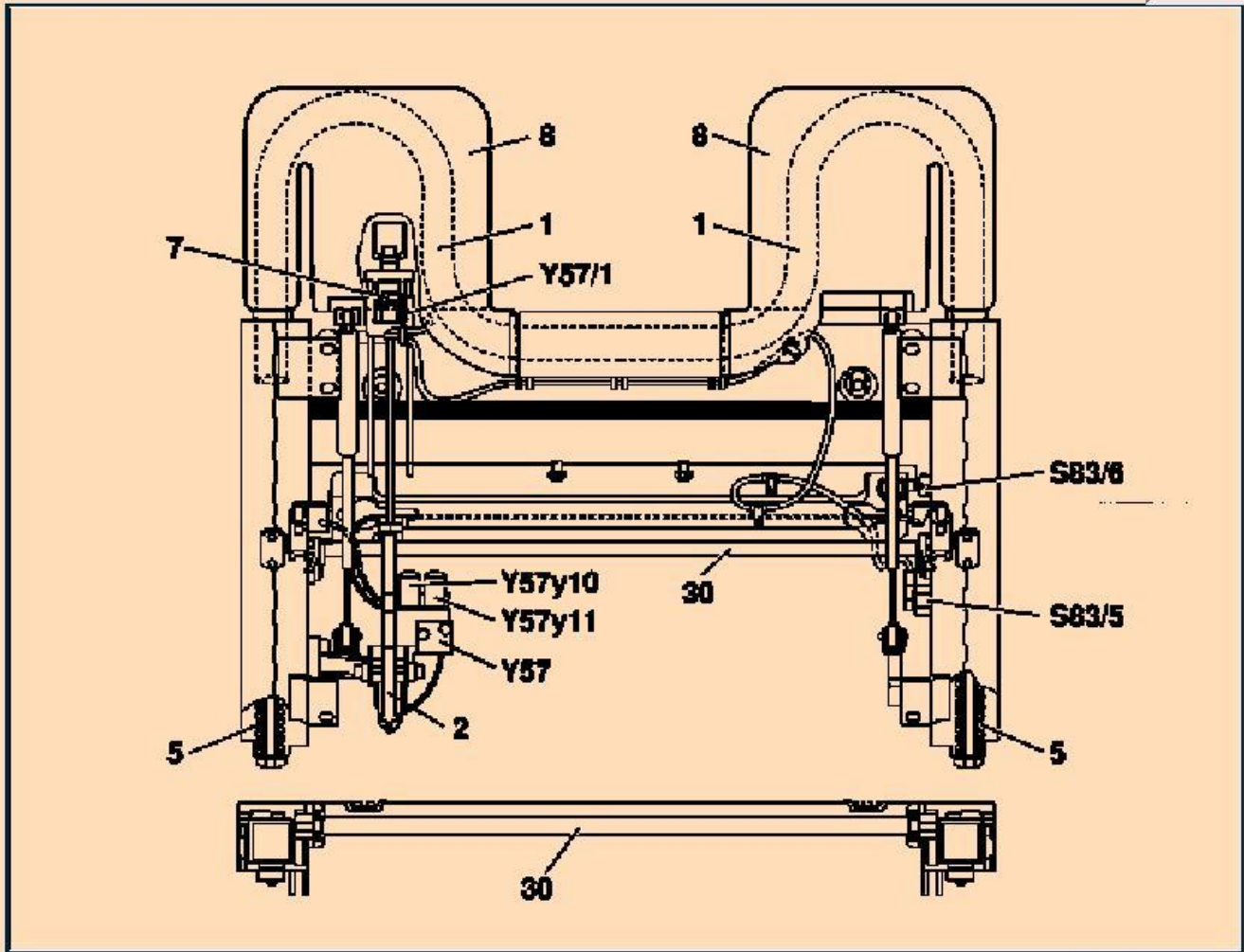
Models 208.435 /444 /445 /447 /448 /465 /470

- 1 Roll bar
- 2 Hydraulic cylinder roll bar on support and control element
- 5 Spring for crash deployment
- 7 Lock (coupling)
- 8 Head restraints
- S83/5 Roll bar (RB) lowered limit switch
- S83/6 Roll bar (RB) raised limit switch
- Y57 Roll bar (RB) valve block
- Y57/1 RB deployment solenoid
- Y57y10 Rod side valve
- Y57y11 Piston side valve



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GF91.59-P-0001KA Roll bar (RB), function Normal view validity OFF Page: 3 / 4

The roll bar serves to protect the vehicle occupants in the event of an accident (vehicle rollover) from severe injuries.

Essentially the roll bar system comprises of the following components/assemblies:

- Roll bar (RB)/soft top operation control module (N52))
- RB switch (manual operation, S83) with integrated malfunction indicator lamp
- Roll bar (RB) lowered limit switch (S83/5)
- Roll bar (RB) raised limit switch (S83/6)
- Roll bar (RB) deployment solenoid (Y57/1)

- Roll bar (RB) and soft top operation hydraulic unit (A7/5)
- Roll bar (RB) valve block (Y57)
 - a) rod side valve (Y57y10)
 - b) piston side valve (Y57y11)
- Hydraulic cylinder for lowering/raising roll bar at support and control element

The roll bar is:

- automatically raised where there is a risk of an accident (**crash deployment**),
- is raised and lowered when S83 is manually actuated (**manual actuation**),
- automatically raised and lowered when operating the soft top.

All roll bar functions are controlled by **N52**. A malfunction indicator lamp is integrated for system function check and state display purposes in the **S83**.

In **manual actuation** a **hydraulic cylinder** on the support and control element generates **(2)** the force required to raise and lower the roll bar. The **motor (A7/5m1)** of the **hydraulic unit (A7/5)** generates the necessary system pressure.

In the event of a **crash deployment** a **pre-tensioned spiral-coiled spring** will supply the required raising force. In this case, the roll bar's hydraulic system acts passively, in order to ensure that maximum operating safety is given.

In order to prevent any tilting over of the roll bar during lowering/raising operations, a synchronizer shaft **(30)** has been fitted, which runs on both sides in a gearing via a pinion gear.

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Crash deployment has priority over manual actuation, i.e. a crash deployment can take place even during manual actuation.

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GF91.59-P-0001KA Roll bar (RB), function Normal view validity OFF Page: 4 / 4

GF	Roll bar manual actuation, function		GF91.59-P-2000KA
GF	Roll bar crash deployment, function		GF91.59-P-2001KA
GF	Roll bar hydraulics, function		GF91.53-P-3000KA
GF	Roll bar system malfunction indicator lamp control, function		GF91.59-P-3000KA
GF	Locking of roll bar actuating element, function		GF91.50-P-3000KA
GF	Roll bar/soft top operation control module, location/task/design/function		GF77.39-P-3100KA
GF	Roll bar actuation (manual operation) switch, location/task/design/function		GF91.59-P-2100KA
GF	Roll bar/soft top operation hydraulic unit, location/task/design/function		GF77.30-P-3100KA
GF	Roll bar valve block, location/task/design/function		GF91.53-P-2200KA
GF	Roll bar deployment solenoid, location/task/design/function		GF91.59-P-2104KA
GF	Roll bar raised limit switch, location/task/design/function		GF91.59-P-2101KA
GF	Roll bar lowered limit switch, location/task/design/function		GF91.59-P-2102KA

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