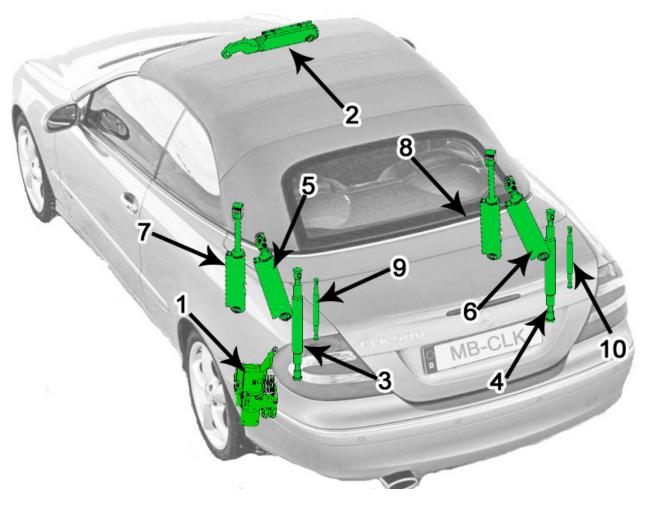
Mercedes-Benz

W209

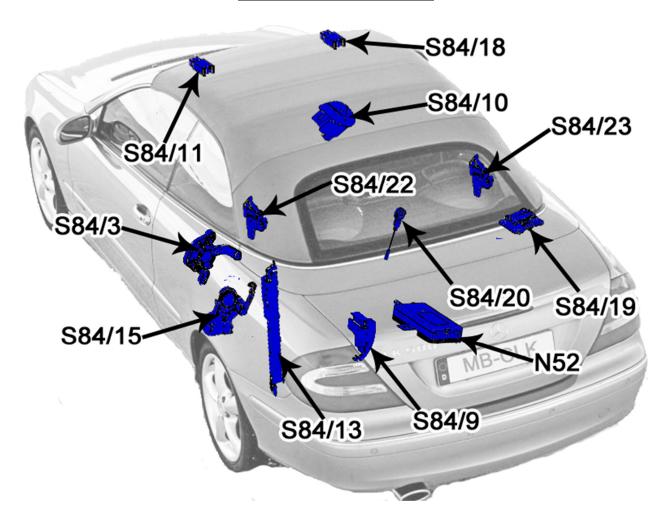
Soft Top
Operation
Diagnostic Aid

Hydraulic Parts



Cylinder Designation	Name of Cylinder
1	Hydraulic Pump - A2098000648
2	Front Lock Cylinder - A2098001172
3	Left Soft Top Compartment Cover Lid Cylinder - A2098001272
4	Right Soft Top Compartment Cver Lid Cylinder - A2098001272
5	Left Bow Cylinder - A2098000972
6	Right Bow Cylinder - A2098000972
7	Left Top Actuation Cylinder - A2098000772
8	Right Top Actuation Cylinder - A2098000872
9	Left Trunk Lid Cylinder (with trunk closer option 881) - A2098001472
10	Right Trunk Lid Cylinder (with trunk closer option 881) - A2098001472

Electrical Parts

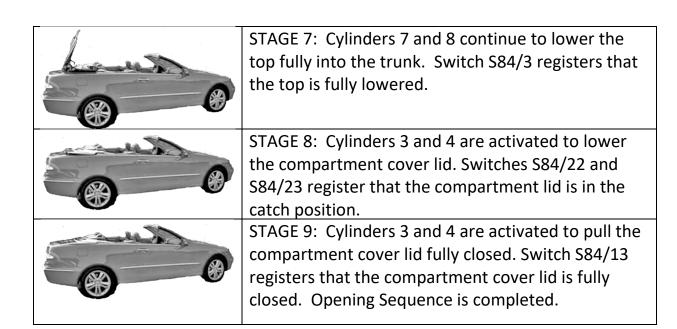


Switch Designation	Name of Switch
S84/3	Soft Top Open Limit Switch - A2098202010
S84/9	Trunk Partition Limit Switch - A2098209310
S84/10	Soft Top Actuation Switch (dual Position) - A2098203110
S84/11	Soft Top Locked Limit Switch - A2098201151
S84/13	Compartment Cover Lid Open/Close Limit Switch (dual position) - A2098201810
S84/15	Bow Up/Down Limit Switch (dual position) - A2098202110
S84/18	Soft Top in Catch Position Limit Switch - A2098202410
S84/19	Bow Locked Limit Switch - A2098201710
S84/20	Ski Bag Limit Switch (optional with ski bag) - A2098209410
S84/22	Compartment Cover Lid in Catch Position Limit Switch, Left - A2098201910
S84/23	Compartment Cover Lid in Catch Position Limit Switch, Right - A2098201910
N52	Soft Top Actuation Control Module (part no. varies)

- Note that S84/20 only exists if the car has the options ski bag pass-through in the rear seatback.
- S84/23 may not exist on early models (pre-MY2005 facelift). This was added and is wired in parallel with S84/22 so that both switches must be activated in order for the compartment cover lid to be recognized in the "catch" position.
- The "catch" position of the soft top means that it has reached the windshield, but is not necessarily locked in place.
- The "catch" position of the compartment cover lid means that the front edge of the lid has lowered and locked into the C-shaped hooks behind the rear seat headrests, but the trailing edge of the lid may not yet be fully lowered.

Opening Sequence

	STACE 0: S94/10 is continuously activated S94/0
	STAGE 0: S84/10 is continuously activated. S84/9 and S84/20 verify that the trunk partition and
	optional ski bag are closed. Side windows lower.
	STAGE 1: Cylinders 3 and 4 are activated to raise the
	compartment cover lid until switch S84/19 registers
	that the bow has released from the lid and switch
	S84/13 registers that the lid is no longer in the
	closed position.
	·
	STAGE 2: Cylinders 5 and 6 are activated to raise the rear glass (bow). Switch S84/15 registers that the
	bow is now in the fully upright position
	bow is now in the fully apright position
	STAGE 3: Cylinder 2 is activated to release the front
	latch. Switch S84/11 registers that the roof is no
	longer locked, and S84/18 registers that the roof is
	still in the catch position.
A .a	STAGE 4: Cylinders 3 and 4 are activated to raise the
1	compartment cover lid fully. Switch S84/13
	registers that the compartment cover lid is in the
	fully raised position.
	STAGE 5: Cylinders 5 and 6 are activated to lower
	the bow (rear glass). Switch S84/15 registers that
	the bow is lowered.
	STAGE 6: Cylinders 7 and 8 are activated to begin
	lowering the top into the trunk. Switch S84/18
	registers that the roof is no longer n the catch
	position. As the lop lowers, the flaps are
	mechanically connected to the mechanism and are
	extended.



Closing Sequence

STAGE 0: S84/10 is continuously activated.
STAGE 1: Cylinders 3 and 4 are activated to fully raise the compartment cover lid Switch S84/13 registers that the compart cover lid is fully raised
STAGE 2: Cylinders 7 and 8 are activated to raise the soft top from the trunk. Switch S84/3 registers that the soft top is no longer lowered. As the lop lowers, the flaps are mechanically connected to the mechanism and are extended.
STAGE 3: Switch S84/18 registers that the soft top has reached the windshield.
STAGE 4: Cylinder 2 is activated to lock the roof onto the windshield. Switch S84/11 registers that the roof is locked to the windshield.
STAGE 5: Cylinders 5 and 6 are activated to raise the bow (rear glass). Switch S84/15 registers that the bow is in the fully raised position.

STAGE 6: Cylinders 3 and 4 are activated to lower the compartment cover lid. Switch S84/13 registers that the lid is no longer in the fully raised position. The lid continues to lower until switches S84/22 and S84/23 register that the compartment cover lid is in the catch position
STAGE 7: Cylinders 5 and 6 are activated to lower the bow (rear glass). Switch S84/15 registers that the bow is no longer in the fully raised position as the bow lowers. Switch S85/14 registers that the bow is in the lowered position
STAGE 8: Cylinders 3 and 4 are activated to fully close the compartment cover lid. Switch S84/19 registers that the bow is locked to the lid. Switch S84/13 registers that the compartment cover lid is fully closed
STAGE 9: Side windows raise. Closing sequence is completed

Revision History

Version	Date	Notes
1.0	2017-08-05	Initial document creation
1.1	2017-08-06	Formatted open/close stages into tabular format, added diagrams
		showing component positions, added page numbers
1.2	2017-08-06	Corrections based on feedback from forum member Keyhole,
		added notes section to electrical components list, added revision
		history