

Mercedes-Benz

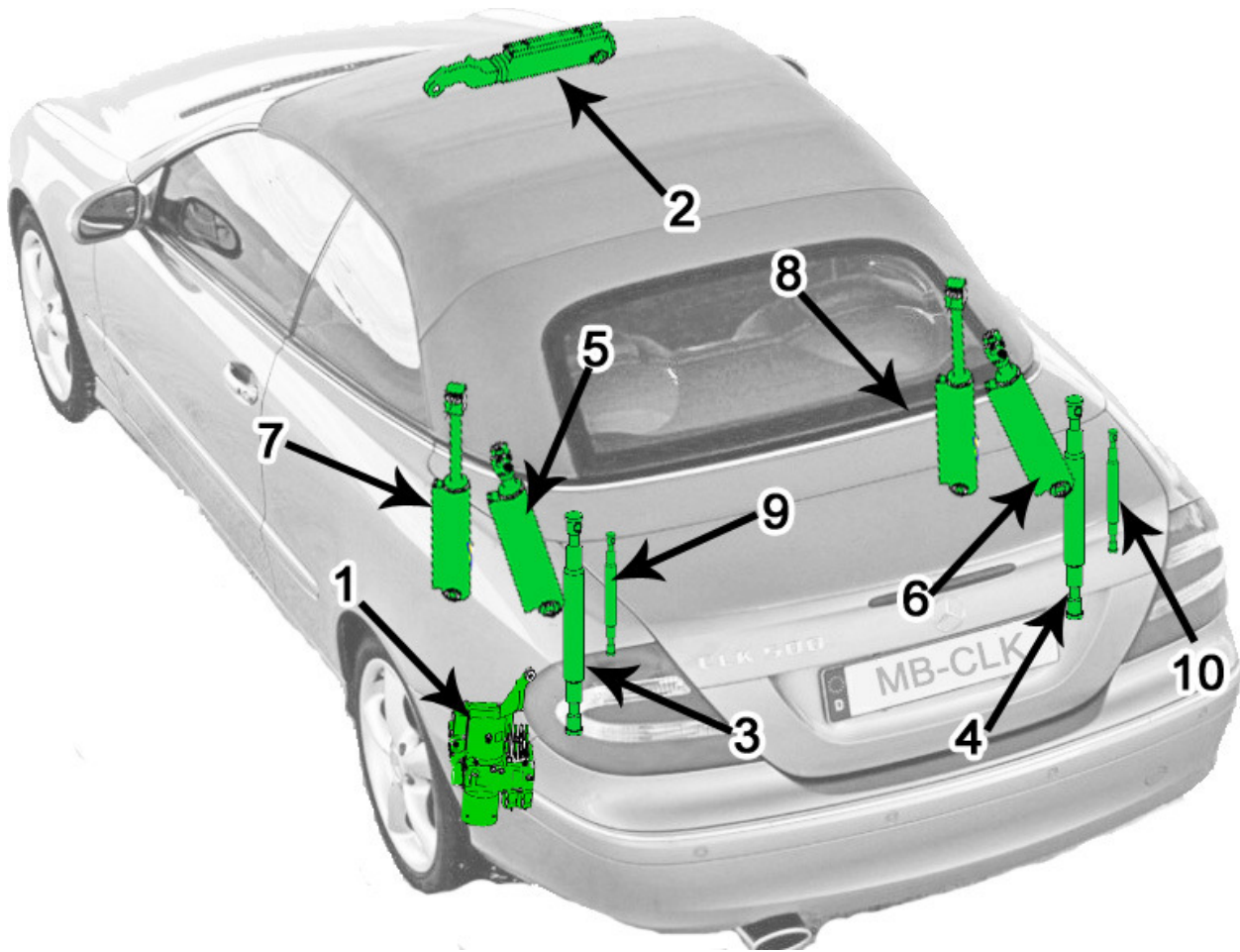
W209

Soft Top

Operation

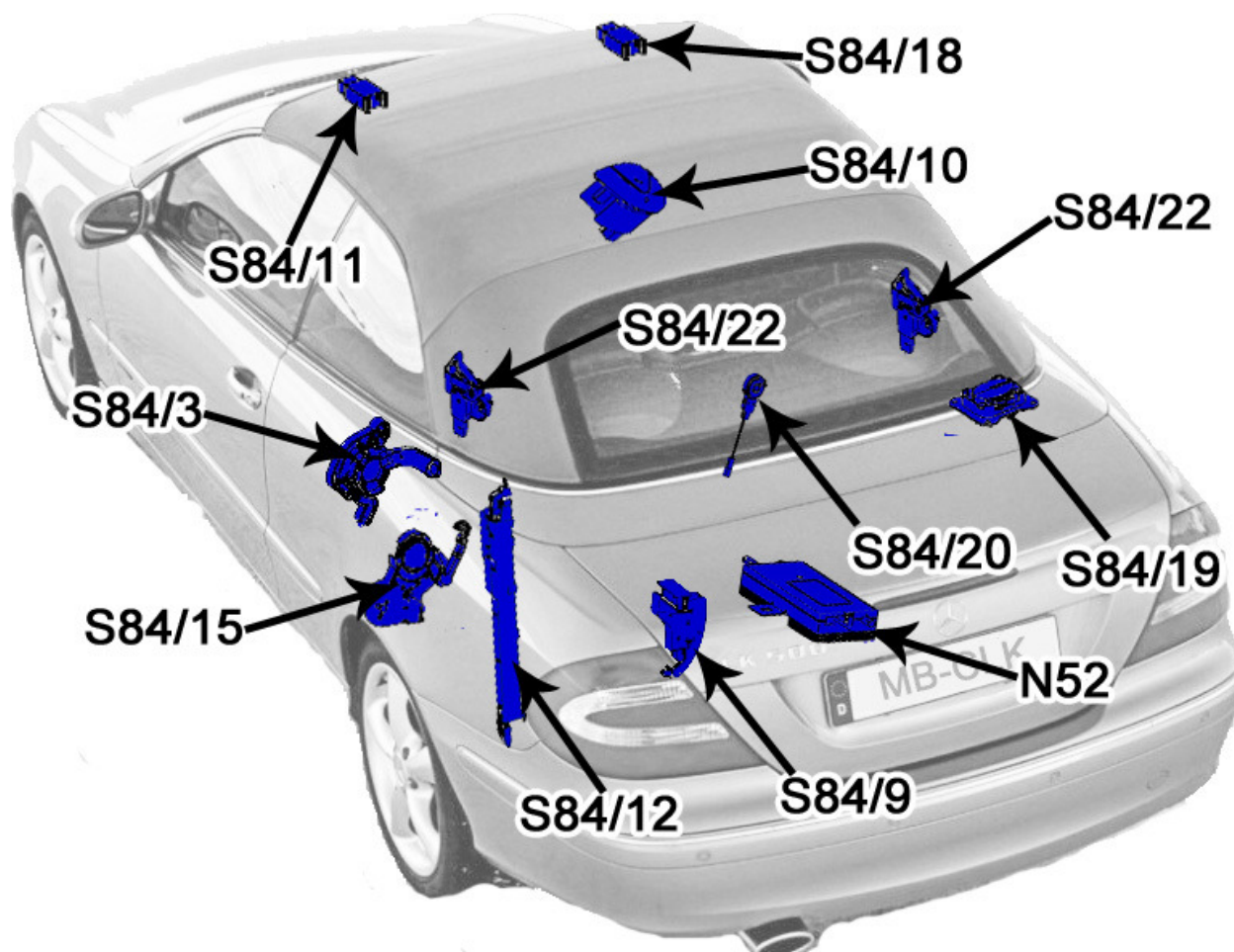
Diagnostic Aid

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

# Opening

1. S84/9 and S84/20 verify that the trunk partition and optional ski bag are closed
2. Side windows lower
3. 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 S84/12 registers that the lid is no longer in the closed position.
4. Cylinder 2 is activated to release the front latch.
5. Switch S84/11 registers that the roof is no longer locked, and S84/18 registers that the roof is still in the catch position.
6. Cylinders 5 and 6 are activated to raise the rear glass (bow).
7. Switch S84/15 registers that the bow is now in the fully upright position
8. Cylinders 3 and 4 are activated to raise the compartment cover lid fully.
9. Switch S84/12 registers that the compartment cover lid is in the fully raised position.
10. Cylinders 5 and 6 are activated to lower the bow (rear glass)
11. Switch S84/15 registers that the bow is lowered
12. Cylinders 7 and 8 are activated to begin lowering the top into the trunk
13. Switch S84/18 registers that the roof is no longer in the catch position
14. The flaps are extended
15. Cylinders 7 and 8 continue to lower the top fully into the trunk
16. Switch S84/2 registers that the top is fully lowered
17. Cylinders 3 and 4 are activated to lower the compartment cover lid
18. Switches S84/22 register that the compartment lid is in the catch position
19. Cylinders 3 and 4 are activated to pull the compartment cover lid fully closed
20. Switch S84/12 registers that the compartment cover lid is fully closed
21. Opening Sequence is completed.

# Closing

1. Cylinders 3 and 4 are activated to fully raise the compartment cover lid
2. Switch S84/12 registers that the compartment cover lid is fully raised
3. Cylinders 7 and 8 are activated to raise the soft top from the trunk
4. Switch S84/3 registers that the soft top is no longer lowered
5. At peak height, flaps retract
6. Switch S84/18 registers that the soft top has reached the windshield
7. Cylinders 5 and 6 are activated to raise the bow (rear glass)
8. Switch S84/15 registers that the bow is in the fully raised position
9. Cylinder 2 is activated to lock the roof onto the windshield
10. Switch S84/11 registers that the roof is locked to the windshield
11. Cylinders 3 and 4 are activated to lower the compartment cover lid
12. Switch S84/12 registers that the lid is no longer in the fully raised position
13. The lid continues to lower until switches S84/22 register that the compartment cover lid is in the catch position
14. Cylinders 5 and 6 are activated to lower the bow (rear glass)
15. Switch S84/15 registers that the bow is no longer in the fully raised position as the bow lowers
16. Switch S85/14 registers that the bow is in the lowered position
17. Cylinders 3 and 4 are activated to fully close the compartment cover lid
18. Switch S84/19 registers that the bow is locked to the lid
19. Switch S84/12 registers that the compartment cover lid is fully closed
20. Side windows raise
21. Closing sequence is completed