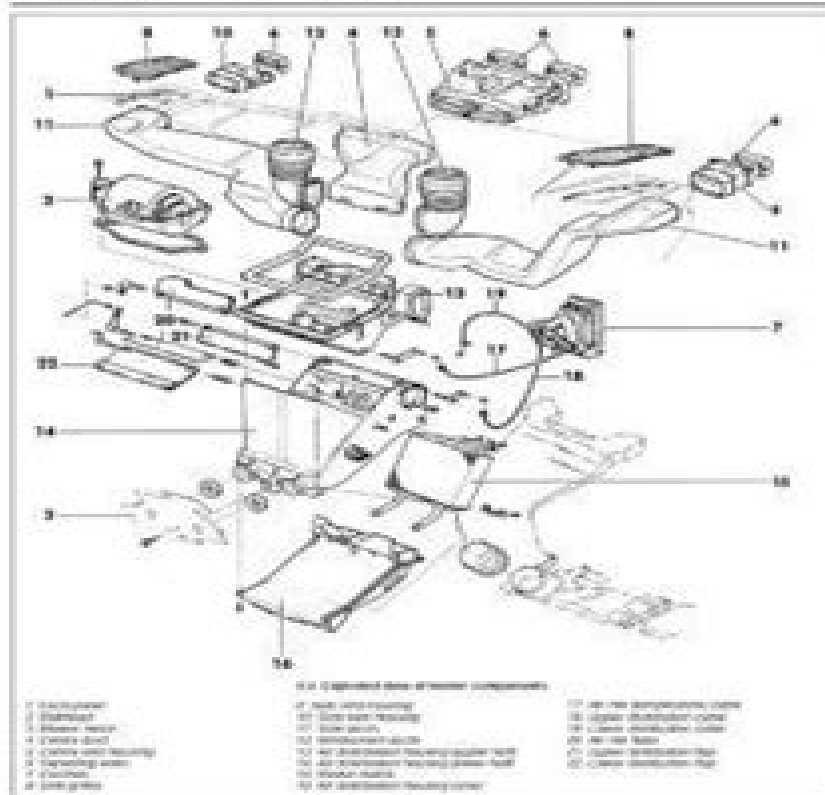


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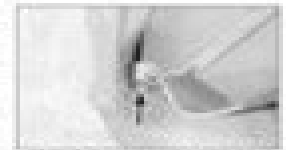
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today's series cars the active shock absorbers are switched to a passive damping usually hard damping during ABS braking. Several approaches to reduce oscillations of vertical dynamic tire forces are known implemented and some of them tested in non braking situations refer to Yi Val ek and Nouillant. The approach presented in this paper goes a step further by connecting the vertical with the longitudinal dynamics. To influence the vertical dynamics a switching control logic called MiniMax controller is used. It is named after the fact that it changes only from soft to hard damping and vice versa. A control quantity was identified that connects the vertical dynamics with the longitudinal dynamics the integral of dynamic wheel load. The control algorithm is implemented in a compact class passenger car. Simulations with a quarter car model have been undertaken as well as tests on a 4 post test rig driving tests with defined excitations like defined obstacles and test drives on a real road using a braking machine for reproducibility reasons. It could be shown that it is possible to reduce the braking distance by affecting on the vertical dynamics of a passenger car in general. The amount of reduction depends on the elevation profile of the chosen testing track and on the initial velocity. On a road with an unevenness comparable to the one that is found on a typical German Autobahn a reduction of typically 1-2% compared to the best passive damping was achieved.

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