Sensotronic Brake Control

After five years in development, Mercedes-Benz is proud to introduce electronic braking. The SL-Class is the first car in the world to use this electrohydraulic system with brake-by-wire technology that takes deceleration and control to a higher level.

Among the virtues of this system, each wheel's braking force is continually optimized, resulting in spectacularly short stopping distances and unparalleled control.

Rapid Emergency Braking:

Sensotronic recognizes the speed with which the driver's foot transfers from accelerator to the brake pedal as an indication of a possible emergency braking situation and reacts automatically. The system immediately increases brake-line pressure so that full force can be exerted in slightly less response time once the brake pedal is pushed.

Optimized ESP: As a result of its highly efficient operation, Sensotronic makes the braking function of ESP more dynamic and precise.

Improved braking in corners: Where conventional braking systems distribute braking pressure in the same proportion to the inner and outer wheels in corners, Sensotronic distributes pressures as required by the situation. As a result, the system increases pressure to the outer wheels because of their road contact forces, enabling them to transfer braking forces more effectively. At the same time, the brake forces on the inner wheels are reduced. The result is braking that is more stable.

Vibration-free ABS function: Because the brake pedal is separated from the hydraulic system, pedal pulsations when ABS operates are virtually eliminated.

Softstop: Sensotronic causes a precisely metered reduction of brake boost before the vehicle comes to a full stop, reducing the tendency to jerk. This function automatically deactivates during hard or emergency braking.

Brake drying: Precise operation allows Sensotronic to remove moisture that accumulates on the brake discs in wet conditions by briefly and lightly applying the brakes. Dry brake discs can reduce brake response time and braking distances. Brake drying is initiated automatically when the windshield wipers are activated,

repeating every five to ten minutes if the brakes have not been applied.

Variable brake pedal characteristics: As vehicle speed increases, pedal travel is decreased in order to achieve high deceleration more quickly.

Exterior Beauty The new SL is beautiful, from the steeply raked grill and blended dual headlights to the sensuous curves of the fenders as the headlight line is carried back to the A-pillar, to the 300SL Gullwing-like side vents to the muscular tail end with monochromatic taillights.

The roof line is reminiscent of the Gullwing when the top is up. When it is down the steeply raked windshield (39° from the horizontal) makes an exciting statement.

Low Drag

The slippery-appearance is real, not just apparent, with a coefficient of drag of . 29 with the top up and .34 with the top down. Even the windshield wipers aid the low drag.

High Tech Materials

The SL's body is made of:

High-Strength, Low Alloy steel

Aluminum-hood, front fenders, trunk lid, and hardtop

Magnesium-inner shells of the doors

Composite materials-bumpers, underbody paneling, fuel tank, fuel-filler flap and license plate area on the trunk.

The new SL is 85-100 lb. less than its predecessor depending on options.

The body is 20% more rigid.

Interior

This you've got to see. It's both retro and futuristic, with gauges that take you back to the 300SL Gullwing but have unparalleled visibility and dual information panels that allow information gathering and personalization that's in a class by itself.

Of course the COMAND system is standard with on-board GPS navigation, Bose sound you've got to hear to believe, AM/FM/Weatherband, and CD (single disc

when not using the navigation CD-Rom, and 6 disc changer behind the front seat.

Dual temperature climate control with multiple large, controllable vents allow quick cool off without noise.

Manually controlled cooling of the glove-box and the center console.

Dust and pollen filter

Activated charcoal filter

Four quadrant solar sensor for optimum regulation of interior temperature.