



Emergency Brake Assist

Studies show that, in the event of emergency, **less than 30% of drivers fully use the braking capacities of their car**. Out of fear of wheel locking, they apply insufficient pressure to the pedal at the start of braking. Emergency Brake Assist compensates for this reluctance by demanding the maximum from the hydraulic system resources at the start of braking.



RENAULT COMMUNICATION

BASIC FACTS

When they are confronted with an emergency braking situation, most drivers do not dare to press hard enough on the break pedal for fear of blocking the wheels. In addition, drivers frequently have a tendency to release the

pressure on the pedal prematurely, well before the car has sufficiently slowed down. Both these points considerable lengthen the car's braking distances. The Emergency Brake Assist system is designed to compensate for them.

IN SHORT >>>

This complement to the ABS system detects emergency braking and then acts on the hydraulic system to increase its effectiveness by applying maximum pressure to the brakes at the start of braking.



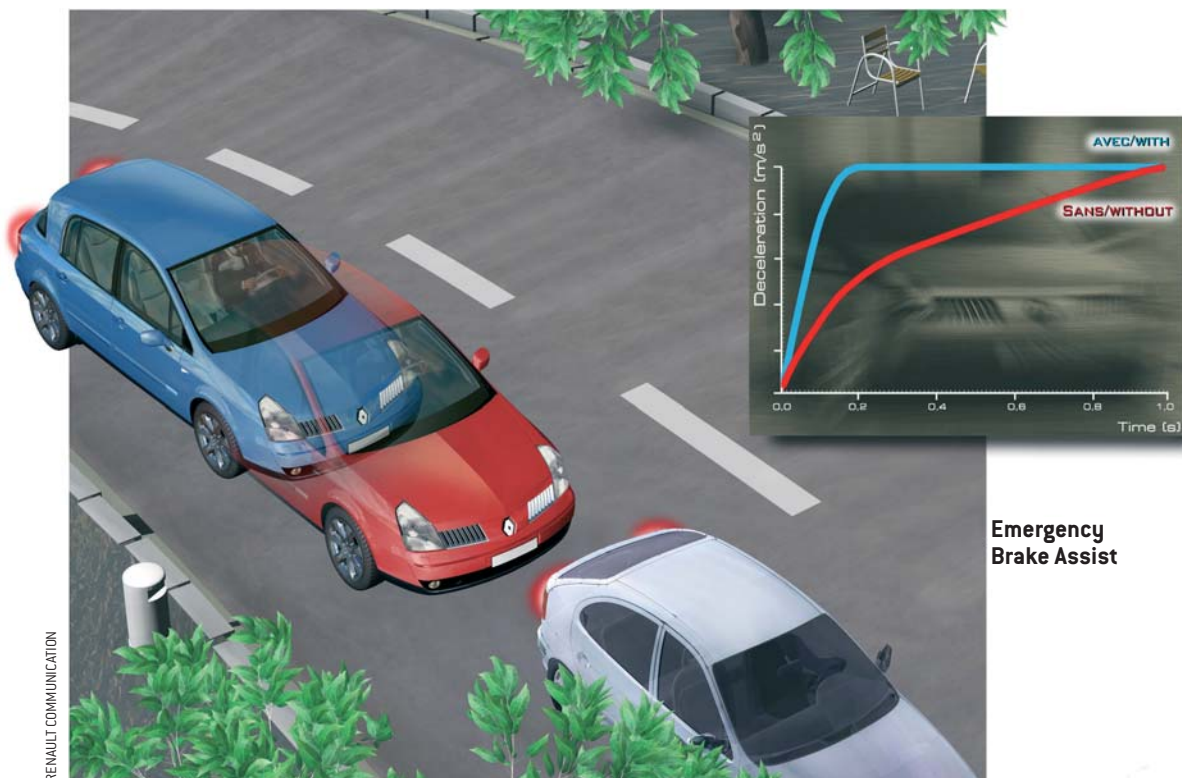
HOW DOES IT WORK?

1 DETECTING AN EMERGENCY

The speed with which the driver presses on the brake pedal is detected: even if he does not exert sufficient pressure, under the impact of surprise, the movement will be fast. This behaviour permits the Emergency Brake Assist to detect an emergency situation. Consequently, it invokes an excess of pressure in the hydraulic circuit of the braking system and maintains it until the threshold that triggers ABS. The braking

capacities of the car are thus fully exploited as of the first meter. In addition, this maximum pressure in the hydraulic circuit is maintained until the driver has largely slackened pressure on the brake pedal. The system interprets this action as signalling the end of the emergency situation. It is then deactivated to allow a return to gradual, gentle braking as in normal use.

2 CONTROLLING BRAKING Emergency Brake Assist offers all drivers an identical level of safety



To have perfect control of braking requires a lengthy apprenticeship and excellent knowledge of the capacities of the vehicle. An occasional driver, out of lack of experience or practice,

will not be able to fully exploit the braking capacity of his car. Emergency Brake Assist compensates for this weakness by interpreting and supplementing his actions.