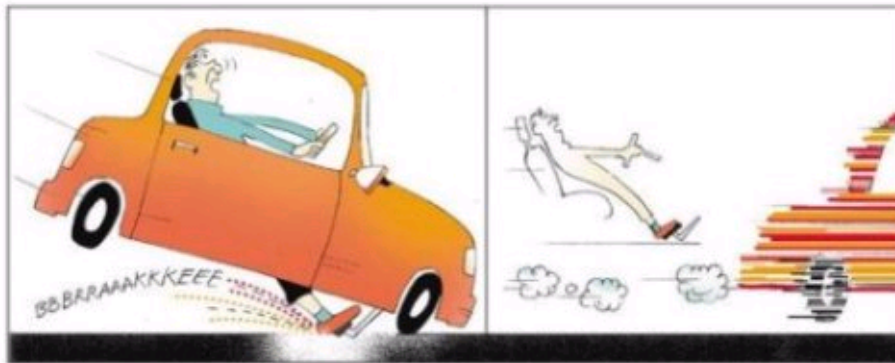




An Overview of Anti Lock Braking System Used in Automobiles

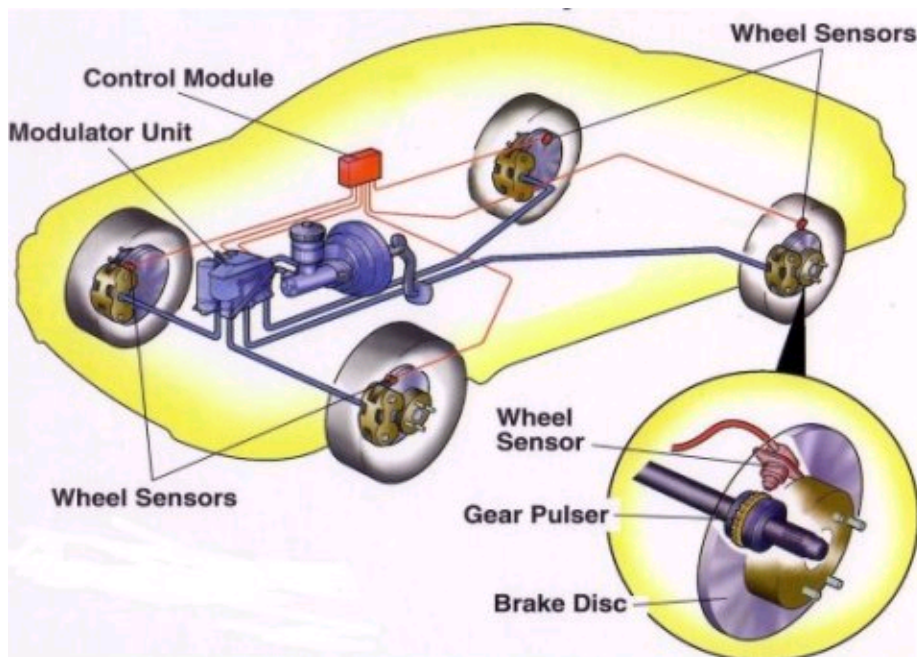
By Automotive Online on February 12, 2008 9:23 AM

The anti lock braking is considered to be the latest innovation and technological revolution in the field of a modern **automobile braking system**. ABS as it is commonly known, functions with the help of an automated and specialized computer which activates the brake pumps at the time of powerful deceleration of the wheels. During this time, the wheels will not get locked and **automobile** driver will be able to drive safely and securely. This type of system functions extremely well in wet, slippery or icy conditions, preventing skids and loss of directional control.



The exteriors of the vehicle need to be flashy, glitzy and must have the ability to grab thousands of eyeballs. Exteriors of the car can be made more appealing and interesting by adding diversity of car trimmings, customized headlight covers, hood shields, spoilers and window visors.

Even, you can also add sun guards for protecting the rear window of your vehicle against harsh weather conditions. Other additional **accessories** that you can choose are hood scoops, embellished license plates and fender flares.



In a typical anti lock braking system, each wheel is accoutered with sensors. These sensors monitor relentlessly the rotation of each wheel and when they scan that a wheel has stopped after applying powerful brake then this wheel sensor sends the signal to ABS computer immediately. After receiving the signal, the computer will control the pressure in the braking system for all the wheels and as a result the wheel lock up is reduced. Whenever the brake pedal is pressed, the ABS computer will guide the braking pump to increase and lessen the pressure in the system accordingly. The driver can easily steer the vehicle normally because ABS prevents the **automobile** from getting crashed under extreme braking conditions.

The **anti lock braking** system comprises of four chief components namely speed sensors, pumps, **valves** and controller. The speed sensors are generally installed at each and every wheel and sometimes in the differential also. Valves are positioned in the brake line of each brake regulated by the ABS. The key function of the pump installed into the anti lock braking system is to get the pressure back, which valves release. Controller acts as a computer that keeps a check on the speed sensors and valves.

At present, the automobile market is flooded with three basic types of ABS such as Four-channel four sensor ABS, Three-channel three sensor ABS and One channel one sensor ABS. The main function of all of the three systems is to prevent wheels from getting locked up and offer the shortest stopping distance on slippery areas.

Earlier automobiles had rear-wheel ABS, which pumped only the rear wheels. They were installed in SUVs, pick up trucks only, and are now no longer in vogue. Today almost all vehicles have four wheels ABS as a standard component. This type of system is very effective, expensive and offers more security than the other systems.

In order to enjoy the maximum advantage of anti lock brake systems it is mandatory to know how they operate. Keep in mind that whenever you are driving four wheel anti lock brake system, do not take your foot off the brake pedal or pump the brakes. Once you do that then the anti lock system will become free resulting into collision of the vehicle. Always expect noise and sensation in the brake pedal at the time when you apply brakes because these vibrations confirm you that the anti lock brakes are working smoothly and effectively.

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