

SPRING AUTOMOTIVE

Brake fluid has vital role in automotive safety

Have you ever counted the number of times you need to stop your car during an average trip? Have you ever thought about what you'd do if you couldn't stop?

Every driver depends on brake fluid for stopping capability.

The average driver uses his or her brakes approximately 75,000 times a year and expects them to

function properly each and every time. Within the braking system of all automobiles exists brake fluid, a highly critical component essential to brake operation.

Brake fluid produces braking (stopping) action, and protects and lubricates brake system components. The use of a high quality brake fluid is essential to assure

the safety of the driver and passengers traveling in the automobile.

Do your brakes work?

An automotive hydraulic braking system consists of a master cylinder of metal piping and flexible hoses.

This hydraulic system attaches to frictional components, which are comprised of brake shoes and drums or brake pads and discs.

Brake fluid is contained within the system assembly. When pressure is applied to the brake pedal, the piston in the master cylinder exerts a force on the fluid.

Since the system is completely filled, the piston is acting on a virtually incompressible column of fluid which transmits the applied force to pistons within the wheel cylinder at each of the wheels. This pushes the brake shoes against the drums (drum brakes) or the disc pad against the rotor disc (disc brakes), resulting in braking action.

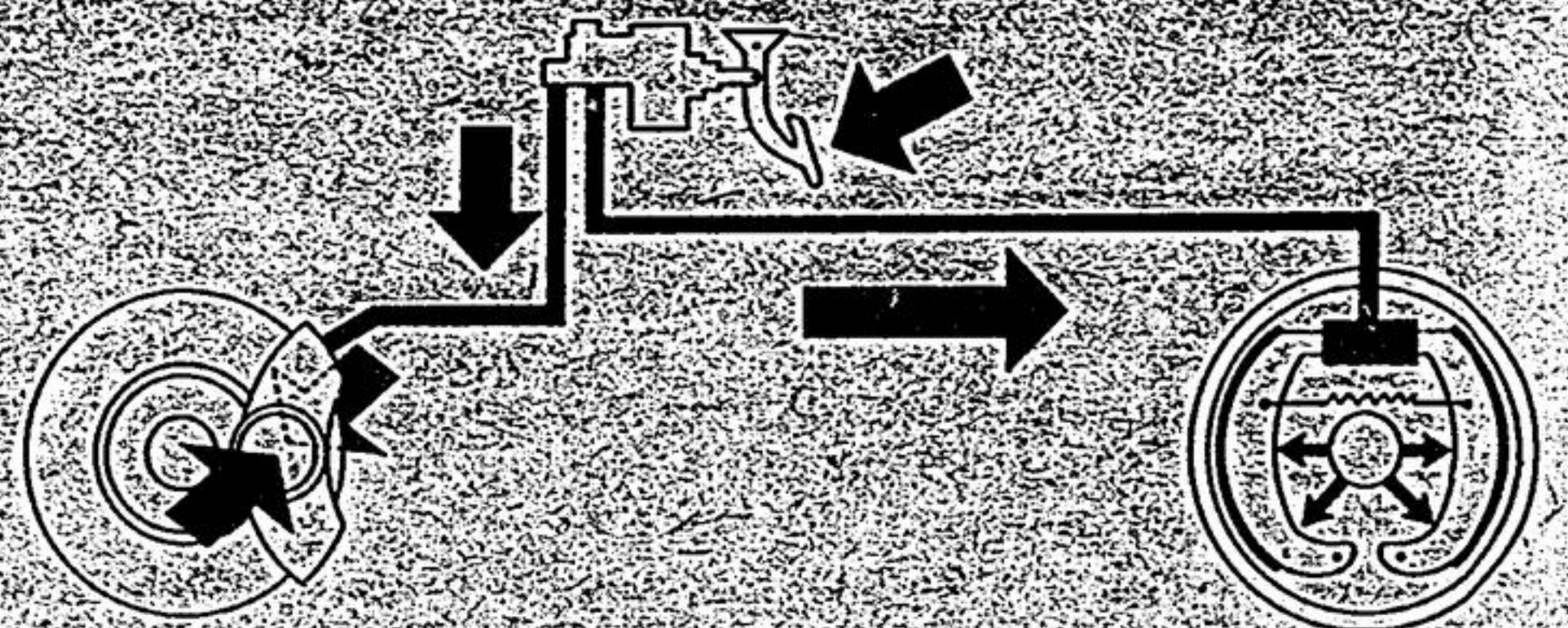
Advances in automotive technology have allowed manufacturers to introduce Anti-lock Brake Systems (ABS) in recent model cars. The ABS is a feedback control system that adjusts brake pressure in response to measured deceleration of each wheel, preventing brake lock-up and vehicle skidding.

The ABS is the most effective braking system and should replace drum and disc systems by the mid-1990s.

The dependence of the motorist on brake fluid for safe vehicle operation absolutely necessitates the selection of a high quality dependable product.

To reduce the possibility of

Automotive Braking System



Disc Brakes

Drum Brakes

New sources of brake system stress require a brake fluid that can manage that stress. Always keep brakes in good working order.

excessive moisture accumulation in the braking system, and to protect against the possibility of complete brake fluid periodically, or whenever moisture contamination is indicated or suspected.

Today's smaller high-performance cars put additional demands on brake fluids.

A number of recent automobile design changes affect braking systems:

Front wheel drive vehicles have an increased load on front brakes, which can lead to higher brake fluid temperatures.

Reduction in turbulent air flow to lower the "drag" factor, and the trend toward smaller, wider tires, can lead to higher brake fluid temperatures in the wheel cylinder area.

Semi-metallic pads now used for disc brakes can transfer heat much more readily than asbestos pads and increase brake fluid temperatures by as much as 50 F under severe operating conditions.

A brake fluid must perform effectively on a moment's notice. This performance is critical to safe brake operation, and must not be compromised by vehicle/brake system design or by driving condi-

tions. Today's cars need a brake fluid that can handle new sources of "brake system stress."

Vapor lock

Vapor lock is a loss of braking power, caused when brake fluid begins to turn to vapor when it reaches its boiling point.

Unlike a liquid, vapors are highly compressible. As a brake fluid becomes more compressible, it loses its ability to transmit the force necessary to effectively stop the automobile.

Loss of response to pedal pressure or even total brake failure can result.

Water absorption lowers the brake fluid boiling point, leaving your brake system more susceptible to Vapor Lock.

A DOT 4 fluid with LMA becomes essential in assuring safe braking operation, especially under severe conditions.

DOT 3 fluids cannot guarantee the same degree of antivapor lock protection for your car's braking system as a DOT 4 fluid can.

Motorists must always keep their braking systems in proper working order, to ensure the maximum amount of safety for automobile owners and their passengers.

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