



# VOLVO BRAKE SYSTEMS



## TAKE A LOOK AT VOLVO GENUINE BRAKE SYSTEMS

SIDE IMPACT PROTECTION. ENERGY-ABSORBING BODY STRUCTURES. CITY SAFETY. THESE ARE ALL GREAT EXAMPLES OF VOLVO'S SOPHISTICATED AND INNOVATIVE SAFETY ENGINEERING. BUT WHEN IT COMES TO YOUR

PROTECTION, NOT EVERY STEP WE TAKE IS AS OBVIOUS AS THESE. IN FACT, YOU'LL FIND SOME OF OUR MOST VITAL SAFETY ENGINEERING APPLIED TO THE MOST BASIC AREAS OF YOUR VOLVO.

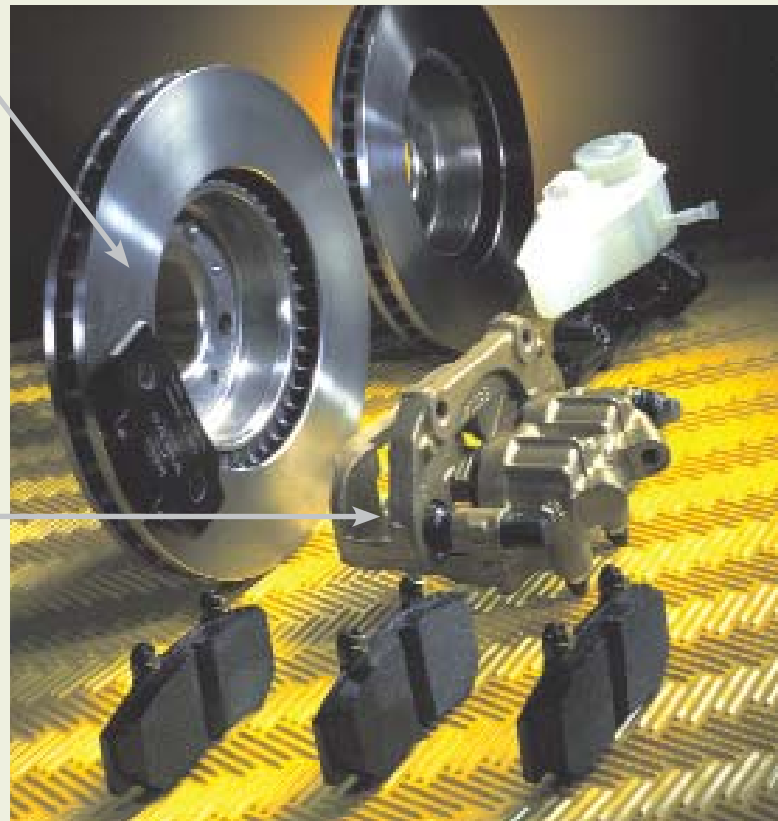
### **VOLVO GENUINE BRAKE DISKS**

Behind every wheel is a disc or rotor. The friction of the brake pads pressed against these discs is what stops your Volvo. Here, uniformity is critical in preventing "wobbling" (that off-balance feeling in the steering wheel) or a pumping sensation during braking. Whether solid or ventilated, exceptionally tight tolerances allow Volvo to produce discs that are true-round, perfectly flat and consistently thick. Volvo machines these discs from a precision-engineered, rust-resistant graphite material that provides superb heat conduction.

### **VOLVO GENUINE CALIPERS**

It's a caliper that applies the brake pads to the surface of each disc. Hydraulic pressure exerted on a plunger in a cylinder within the caliper housing is what moves the pads.

Volvo employs an expensive and complex precision-machining procedure to achieve a perfect fit between the plunger and cylinder. This ensures that caliper function is smooth and with no loss in pressure. The use of an extremely resilient rubber seal also keeps out contaminants and prevents the loss of brake fluid. It can also withstand enormous pressure (up to 10 kgf/cm<sup>2</sup>) and will retain consistent elasticity across a broad temperature range of -40°F to 392°F.



### **THE VOLVO GENUINE BRAKE SYSTEM**

Don't let anything stop you from a safe driving experience. For all brake system repairs, demand Genuine Parts from the company who knows best how to keep your car at its safest. Volvo.

CONSIDER BRAKE SYSTEMS. THE ABILITY TO STOP YOUR VOLVO QUICKLY, AND WITH CERTAINTY, IS ESSENTIAL TO A SAFE DRIVING EXPERIENCE. VOLVO GENUINE BRAKE SYSTEMS HELP MAKE THIS POSSIBLE BY TYING TOGETHER COMPONENTS MANUFACTURED TO

EXACTING STANDARDS. COMPONENTS THAT CAN TAKE THE PUNISHMENT OF TEMPERATURE, MOISTURE, DIRT AND ROAD SALT, AND STILL DELIVER CONSISTENT BRAKING ACTION.



#### **VOLVO GENUINE MASTER CYLINDER**

Step down on your brake pedal. You're activating the master cylinder. It pressurizes the brake fluid, which in turn, operates the calipers. Both the master cylinder and its hydraulic reservoir have a common enemy: internal corrosion. Its formation can lead to the premature failure of both pistons and seals.

Every master cylinder made by Volvo features high quality pistons, seals and a precision-machined cylinder bore for maximum protection against pressure or fluid loss. To prevent internal corrosion, Volvo ships every hydraulic reservoir unattached to the master cylinder and with a protective fluid sealed inside.

#### **VOLVO GENUINE BRAKE PADS**

Brake pads are applied to both sides of each disc. The resulting friction generates an abundance of heat. Volvo's testing and careful design process creates brake pads that can take this kind of torture. What's more, the "cleaning" effect these pads have on the disc surface helps keep it free of rust.

## **VOLVO GENUINE BRAKE SYSTEMS**

- Deliver positive, consistent braking action for maximum driver control and occupant safety.
- Constructed from precision-engineered graphite and other high quality materials for reliable performance and maximum durability.
- Provide excellent resistance to extreme temperatures, dirt, dust, moisture and corrosion-inducing road salt.
- Manufactured especially for Volvo automobiles.
- Road and laboratory tested by Volvo.