

Blogs of automotive

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1 - Here's How Do You Know That There Is a Need of Brake Ro

Guess the critical components of your car that receives maximum friction without any lubrication. These are the rotors inside your vehicle. They play an important role in stopping your vehicle. When you press the brake pedal, the pads rub against the rotors and make it possible to slow a vehicle.

Rotors tolerate a lot of friction in this process, and as a result, they wear down too quickly. Though rotors are made of robust material, but it can tolerate friction up to a limit. However, discussion revolves around getting informed about the early signs of worn rotors. If you are able to identify these signs, changing the rotors would be easy.

The steering wheel starts to vibrate

Though the steering wheel might vibrate for a number of reasons, if it vibrates when you press the pedal, your cars' rotors are not in good condition.

Constantly pressing the pedal generates a lot of heat. And this heat initiates the wear and tear of rotors. Once the rotors start to wear down, the effect is visible in terms of a lack of brakes and vibration, a result of pressing brake pads against a worn or uneven surface.

Therefore, it becomes important to deal with rotor problems because you would not like to deal with brake problems while driving on the road, especially in busy traffic.

Screeching around the wheels

Screeching is quite annoying, but it happens especially when there is a problem with rotors. Though the screeching sound comes intermittently, it could be severe, such as pressing nails against the metal surface.

Worn rotors usually develop a number of cuts over the surface, and brake pads make some serious noise against damaged rotors. However, you should not wait for rotor replacement when you hear such a sound more frequently.

On the other hand, brake pads also receive a lot of damage when working with worn rotors. Better come to Service My Car for a quick inspection. You can also get brake pads replacement at very low prices here.

Rotors have turned blue unintentionally

Blue might not be your favourite colour, but you have to deal with it when it comes to the rotors. If the rotors have turned blue, they are at risk of being damaged. However, the excessive heat poses a risk to the rotors. And it occurs when a driver uses the brakes excessively or drives with engaged brakes.

The problem also comes into effect when you drive into the mountain areas more frequently. Riding those slopes would not be possible without brakes, which leads to excessive rotor usage.

You can, however, perform a physical examination of the rotors surrounding the wheel spokes.

Besides, you can opt for an expert assessment at Service My Car.

Extreme rotor wear and tear

Just like other depreciating components, the brake rotors go through a lot of friction regularly, which results in extreme wear and tear. However, worn rotors usually do not provide great service, which could be experienced during a drive.

You should look for grooves and other problems on the rotors. If you are unable to identify with the problems, take help from an expert. Though brake rotors might need to be replaced once your car has crossed 25,000 kilometres, this is not a standard because your car might need it way before that depending on your driving habits and area.

Your habits are definitely going to force you in making a quick assessment of the problems of your car's brake rotors. However, if you would like to be sure about the problems, Service My Car would prove to be handy and may advise you on any brake repairs. If you need any type of car service & repair, service my car provides you free pickup and delivery at the nearest [land rover repair](#) center.

When do brake rotors need to be replaced?

Up to 1,000,000 kilometres, a car does not require new brake rotors under normal conditions. However, it greatly depends on a person's driving habits and the area, he or she lives in.

Hilly areas need more brake usage, while there is always a need for frequent stops. Besides, your car's brakes might be problematic if you carry a lot of weight more frequently. The quality of the parts is also vital.

However, you should be cautious when there is a need for brake pads replacement. Check for worn out rotors or seek expert help at Service My Car. However, brake pads must be replaced every 50,000 kilometres.

When you inspect the rotors, if there is not enough damage, you can go ahead and resurface the rotors. It definitely saves enough because brake rotor resurfacing costs less than replacement.

The problematic rotors often show the above mentioned signs, such as abnormal sounds, vibrations, colour changes, etc. Bad brake rotors also damage the brake pads and force you to pay more when there is always a chance of saving some money.

For more advice and a quick inspection, you can come to Service My Car. You can also contact us by booking a car service or ordering a car repair on our website or app now.

2 - Head Gasket Repair Costs

The head gasket, a humble yet vital component of any combustion engine, often remains unsung until it fails, causing significant disruption and potential damage. This in-depth guide illuminates the role, types, common issues, and the head gasket repair cost, providing a holistic understanding of this crucial engine part.

The Role of the Head Gasket A head gasket sits snugly between the engine block and the cylinder head, ensuring a tight seal. Despite its relatively simple construction, the gasket plays a pivotal role in maintaining the engine's peak performance. Its primary function lies in sustaining the maximum compression ratio and retaining the coolant or engine oil within the cylinders. It's easily recognizable by its flat, thin profile with large openings for cylinders and coolant channels.

Different Varieties of Head Gaskets

Over time, while the basic design of head gaskets has remained largely unchanged, advancements in materials and manufacturing processes have led to the creation of several distinct types of head gaskets.

Multi-Layer Steel Gaskets

Most modern head gaskets are fashioned from multi-layer steel, a material ideally suited for engines with high compression, such as diesel engines. These gaskets feature two to five layers of steel interspersed with elastic compounds, enabling them to withstand high compression and temperatures.

Copper Gaskets

Previously, copper was the go-to material for head gaskets due to its superior durability and softer texture compared to regular steel and aluminum. As the cylinder head is tightened, copper forms a perfect seal between the head and the block, offering a reliable gasket. Copper continues to find use in some high-performance applications today.

Composite Gaskets

Constructed mainly from asbestos or graphite, composite head gaskets do not offer the same durability as their copper or multi-layer steel counterparts. Additionally, the toxic nature of asbestos has led to the discontinuation of such parts.

The Breakdown of Head Gaskets

Head gasket failure transpires when the gasket ceases to provide an effective seal between the cylinder head and the engine block. This failure often results in a physical breach in the gasket, allowing the fuel-air mixture to leak out, leading to power and torque losses. Furthermore, the damaged gasket may allow oil and coolant to mix and infiltrate the cylinders, which can spell disaster for the engine if not detected promptly.

Causes and Types of Head Gasket Failure

Head gasket failure can arise from numerous causes, including wear and tear, the use of an unsuitable gasket, or a defective part. Failures can manifest externally, visible as power loss and oil leakage, or internally, exhibiting other symptoms. Owners of high-performance cars often encounter head gasket failures due to the added strain on the component resulting from increased power, torque, and operational temperatures.

Consequences of a Blown Head Gasket

When a head gasket blows, the initial symptoms include a loss of compression and power. The compromised seal affects the engine's ability to generate the compression required for delivering the specified power and torque. Furthermore, the engine may overheat as exhaust gases make their way into the cooling system. Coolant infiltration into the combustion chambers can cause hydro lock and extensive engine damage. An additional warning sign of a blown head gasket is the presence of a mayo-like residue on the oil cap, indicating an oil-coolant mix.

Repairing a Blown Head Gasket: An Overview

Although the head gasket itself is an inexpensive part, rarely exceeding \$100, the associated labor costs can make head gasket replacement an expensive operation. The process involves disassembling nearly the entire engine and removing the cylinder head to access the damaged gasket. In worst-case scenarios, the blown head gasket may cause significant damage to the cylinders, cylinder heads, or other components, necessitating their replacement.

Head Gasket Replacement and Repair Costs

While the cost of a new head gasket is relatively low, the labor-intensive nature of the repair job can make it a costly affair. Depending on the engine type and its overall condition, you can expect to pay between \$1000 to \$2000 for the entire repair. The cost is significantly lower if your engine only requires a replacement gasket. Despite the high head gasket repair cost, we strongly recommend changing the engine oil and coolant after the procedure.

A Step-by-Step Guide to Fixing a Broken Head Gasket

Repairing a broken head gasket is a complex process requiring the disassembly of the engine's top part. The first step involves removing the intake system, hoses, wires, and fuel lines, after which you can access the cylinder head. Always consult a shop manual for your specific car/engine type to ensure the correct removal procedure for the cylinder heads. After this, you can assess the damage to the head gaskets, cylinders, and engine block. If you need any type of head gasket service & repair, service my car provides you free pickup and delivery at the nearest [toyota specialist](#) center.

In conclusion, while the head gasket may appear simple and unassuming, it plays a crucial role in the efficient functioning of an engine. Regular maintenance and timely repairs can prevent catastrophic engine damage and save you from bearing a hefty head gasket replacement cost.