

Periodic Replacement Parts



Replacing Mazda Genuine Parts

The required maintenance work depends on the region, season, car model, and the way a vehicle is driven.

Our service staff will evaluate your vehicle and recommend the optimal schedule for part replacement that will keep the vehicle in the best possible condition.

The part replacement guidelines in this section apply to the "severe conditions," .

Definition of Severe Conditions

- ① Long-distance driving
- ② Repeated short-distance trips
- ③ Frequent low-speed driving or idling
- ④ Frequent driving on mountain roads and slopes
- ⑤ Frequent driving on roads in poor condition

Definition of Normal Conditions

Driving in any other conditions

Drivetrain

(Transferring power)

The power generated by the engine is transferred to the road surface.

① Tires

The tires transfer the way the driver wants to drive, turn or stop the car direction to the road surface.

The minimum tread depth is 1.6 mm

② Drive Shaft Boots

Drive shaft boots keep foreign material out of drive shaft joints.

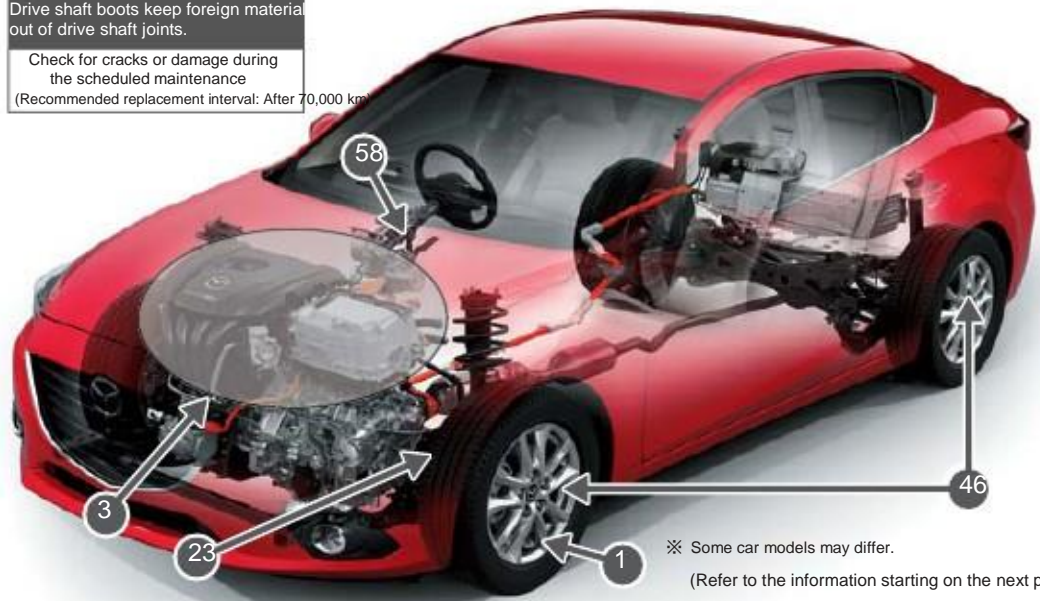
Check for cracks or damage during the scheduled maintenance

(Recommended replacement interval: After 70,000 km)

③ Differential Oil

This oil lubricates the gears inside the differential.

Every 40,000 km



※ Some car models may differ.

(Refer to the information starting on the next page.)

Engine System

(Supporting the engine)

These parts are essential for making sure that the engine, the heart of a car, works properly.

③ Engine Oil

Engine oil lubricates the engine interior.

After 6 months or 10,000 km (whichever comes first)

③ Spark Plugs

These plugs generate sparks to combust the air and fuel sucked into the engine.

100,000 km (platinum or iridium plugs)

③ Oil Filter

The oil filter cleans the engine oil.

After 6 months or 10,000 km (Whichever comes first)

③ Battery

The battery is a power source that starts the engine

Check during the scheduled maintenance (Recommended replacement interval: Every 18 to 24 months)

③ Air Filter

The air filter cleans the air sent to the engine.

Every 20,000 km

③ Drive Belt

Drive belts transfer the power from the engine to various other parts to activate them.

Check for looseness or damage during the scheduled maintenance

(Recommended replacement interval: After 36 months or 60,000 km)

③ Engine Coolant (LLC)

This fluid cools down the engine.

After every 24 months

③ Fuel Filter

This filter keeps the fuel clean.

100,000 km for Skyactiv engines
60,000 km (non skyactiv engines)

Brake System

(Stopping the car)

These parts make sure that a moving car stops when the driver wants it to.

③ Brake Fluid

When you step on the brake pedal, the brake fluid transfers force to brakes.

After every 24 months

④ Brake Shoes

Brake shoes push the drums from the inside & slow the car down using friction

The level limit is 1 mm (Recommended replacement interval: every 40,000 to 60,000 km)

④ Brake Pads

Brake pads clamp the brake discs and slow the car down using friction.

The level limit is 2 mm (Recommended replacement interval: Every 30,000 to 50,000 km)

Other Parts

These parts make sure that driving is safe and comfortable.

③ Cabin Air Conditioner Filter

This filter cleans the air that enters the air conditioner.

After 12 months or 20,000 km (Whichever comes first)

⑤ Wiper Blades (Refill)

Wiper blades prevent rain or snow from blocking your view.

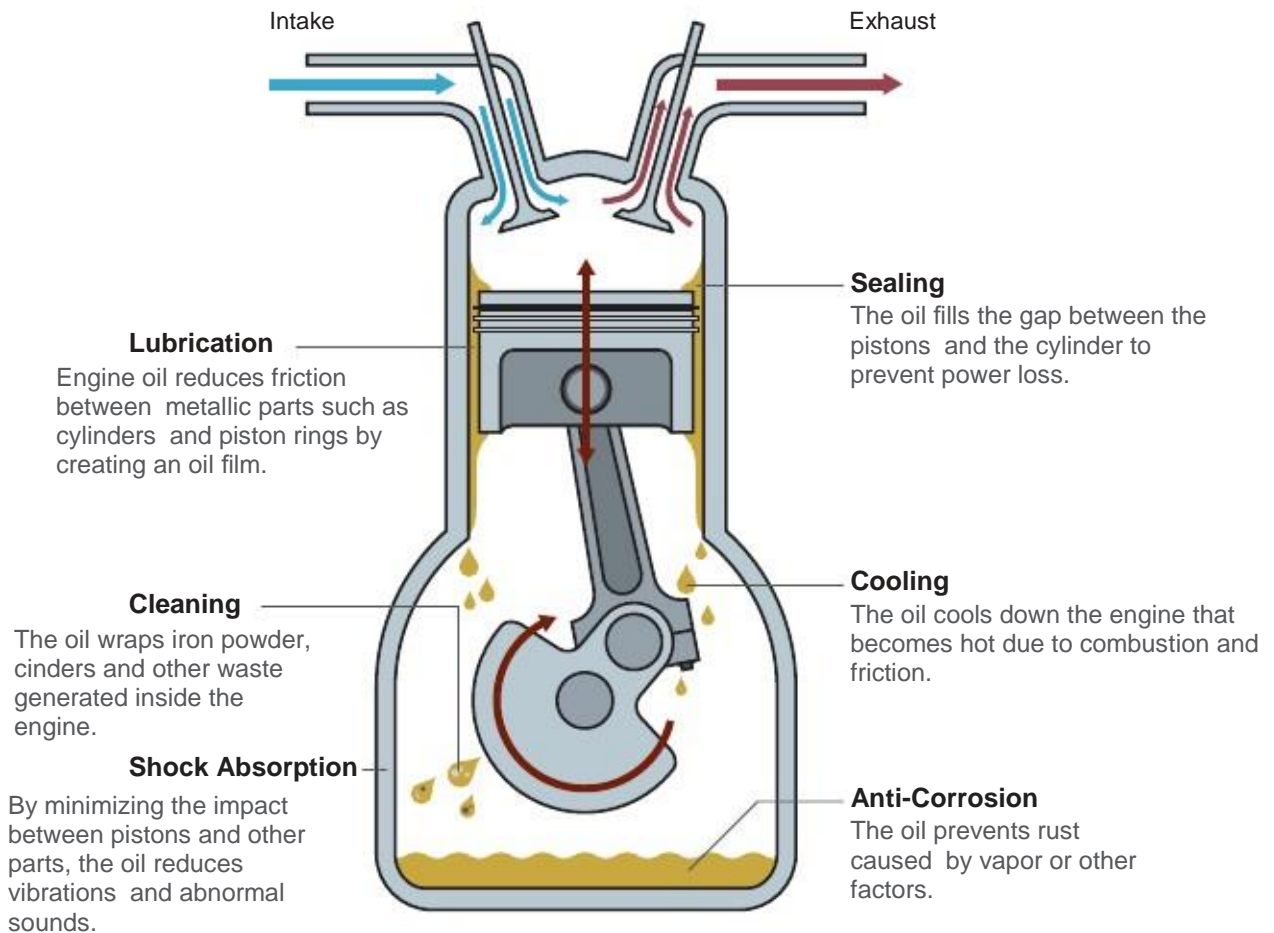
When the wiping performance deteriorates (Recommended replacement interval: every 6 to 12 months)

Engine Oil

Functions

Engine oil lubricates the engine interior.

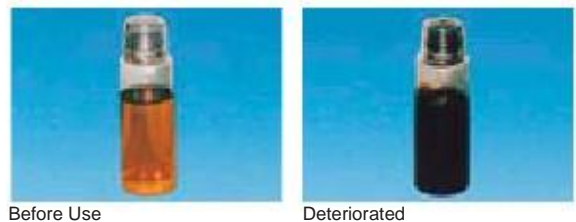
Like human blood, engine oil spreads around the entire engine interior, lubricates the parts and performs other functions as well.



If It Deteriorates

If you hear any abnormal sounds and do not search for the problem, the engine may stop working.

Engine oil contamination can cause damage to the engine interior, which can produce abnormal sounds. If you do not have the issue fixed, the engine may seize and stop working.



Recommended Replacement Interval	Severe Conditions
Other than below	6 months / 10,500 km
DISI Turbo	6 months / 10,000 km
Rotary Engine	6 months / 10,000 km
Diesel Engine	6 months / 10,000 km

★Even if you do not use your car for long distance trips, the oil will oxidize with time. We recommend having the oil changed after the specified period of time or mileage, whichever comes first.

Oil Filter

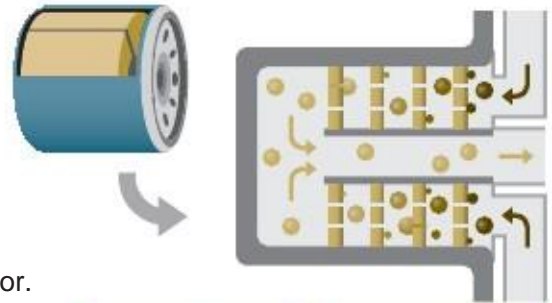
Functions An oil filter keeps engine oil clean.

It removes the metallic particulates in the oil inside the engine, and sends clean oil to the engine.

If It Deteriorates

Engine oil contamination will cause damage to the engine interior.

When too many metallic particulates accumulate in the oil filter, they clog it. If you continue to drive the car without fixing the issue, the contaminated oil may flow through the engine and damage its interior.



Before Use

Contaminated

Recommended Replacement Interval

Severe Conditions

Other than below	6 months / 10,000 km
DISI Turbo	6 months / 10,000 km
Rotary Engine	6 months / 10,000 km
Diesel Engine	6 months / 10,000 km

★We recommend changing the oil filter together with the engine oil after the specified period of time or mileage, whichever comes first.

Air Filter

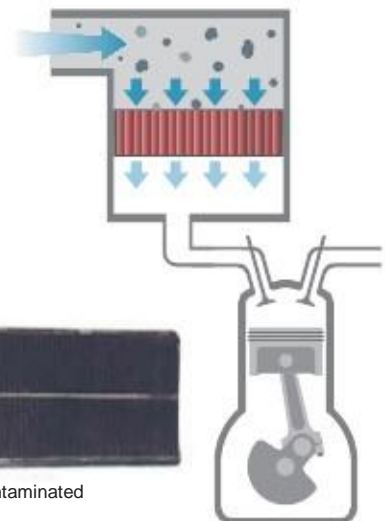
Functions An air filter cleans the air sent to the engine.

This filter removes contaminants and dust to make sure clean air passes through the engine.

If It Deteriorates

The fuel consumption will be rise due to an insufficient amount of air.

If the filter gets clogged, an insufficient amount of air will be sent to the engine, which can increase fuel consumption and reduce power.



Before Use



Contaminated

Recommended Replacement Interval

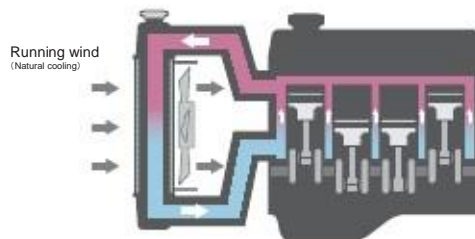
Severe Conditions

All Vehicles (Excluding RX-8)	20,000 km
RX-8	20,000 km

Engine Coolant (LLC)

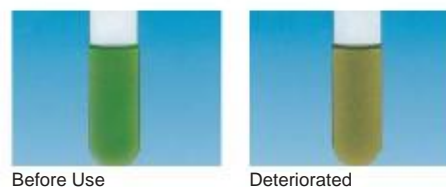
Functions This fluid cools down the engine.

Besides reducing the engine temperature, engine coolant also prevents the metallic parts inside the engine from corroding. Engine coolant has a powerful defrosting effect in cold regions, and prevents the engine from overheating in hot regions.



If It Deteriorates The engine will start overheating.

If the coolant deteriorates, its anti-corrosion effect becomes weaker, which causes holes to form in the radiator and shortens its service life. As a result, the cooling system will lose its power and cause the engine to overheat.



Recommended Replacement Interval	Severe Conditions	Normal Conditions
For models with genuine LLC	After every 24 months	
*There is no "FL22" mark near the radiator cap.		

★Even if you do not use your car for long distance trips, the engine coolant will deteriorate with time. We recommend having the engine coolant changed after the specified period of time or mileage, whichever comes first.

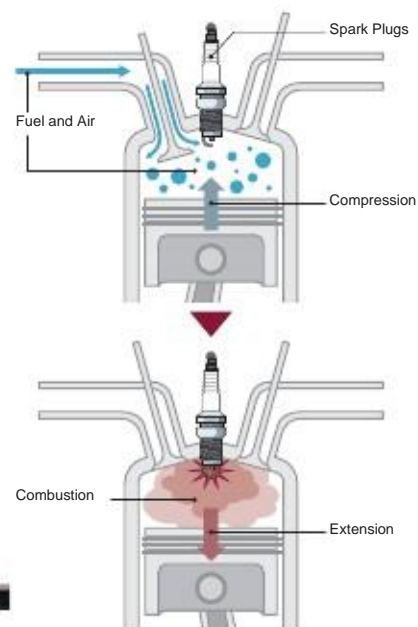
Spark Plugs

Functions These plugs generate sparks to combust the air and fuel mixture sucked into the engine.

They ignite and combust the mixture of fuel and air compressed by the pistons to create power.

If It Deteriorates The engine may not start or run properly.

If the plugs are unable to generate sparks properly, the engine may not work properly and the fuel consumption may increase.



Recommended Replacement Interval	Severe Conditions	Normal Conditions
Platinum or Iridium plugs (excluding RX-8)	100,000 km	
Platinum or Iridium plugs (RX-8)	60,000 km	

The normal plugs are checked and evaluated during the scheduled maintenance.

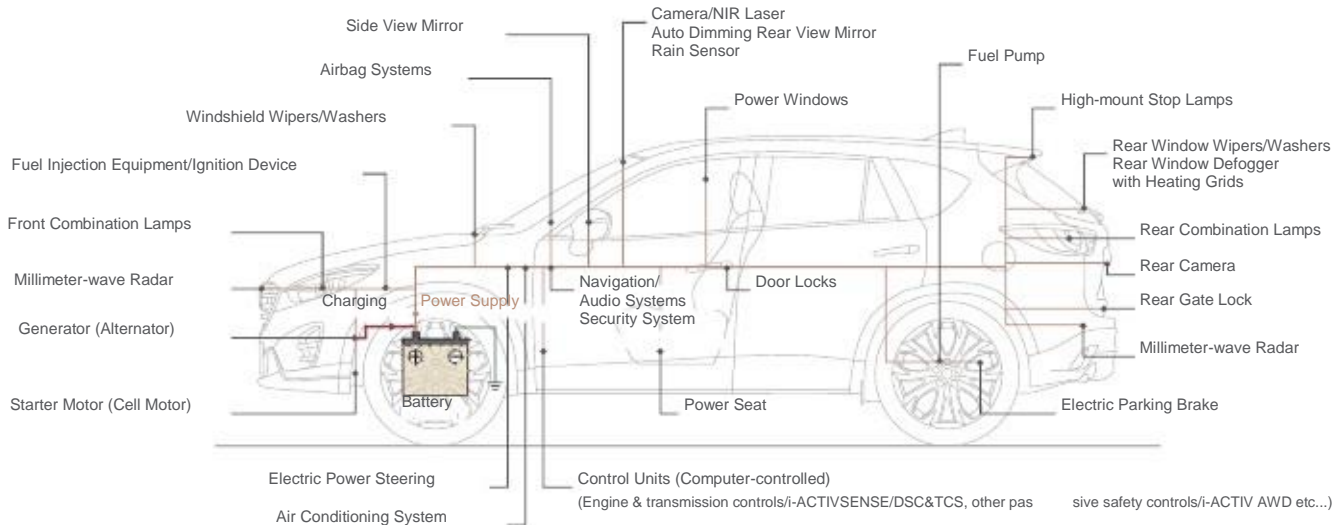
Engine System

Battery

Function s

The battery is a power source that starts the engine and supplies power to the equipment inside the car.

It sets the engine in motion, and provides the power necessary to activate all other equipment (such as the audio system, air conditioner, headlights, or power windows). The battery also stores the power generated by the alternator (generator).



If It Deteriorates

If the battery runs out, the engine will not start.

Even when the car is not moving, devices such as clocks or the audio system are slowly draining the battery. You may find out that the engine that worked until the morning suddenly will not start.

Useful Trivia

Is it true that recent battery models show no signs of depletion before it happens?

Recent battery models and vehicles boast better performance, and deplete the battery power completely. Therefore, as opposed to the batteries used in the past that caused the lights to dim and showed other signs of depletion, recent battery models sometimes suddenly run out. In order to avoid any unexpected issues, have the battery checked periodically and replaced every 1.5 to 2 years.

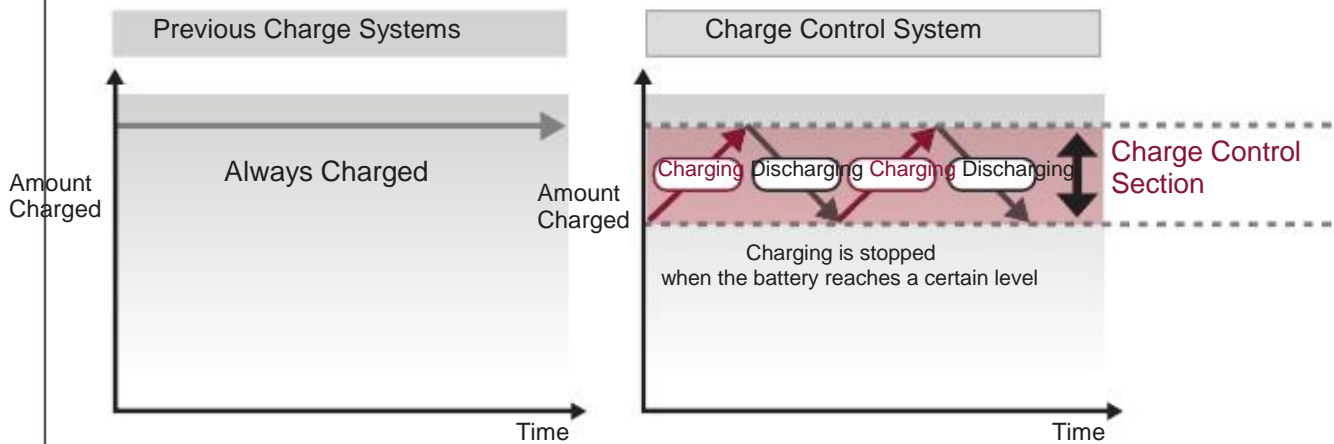
Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	Check the condition during the scheduled maintenance [Recommended replacement interval: every 18 to 24 months]	

Are You Familiar with the Charge Control System?

Recent eco-friendly cars are equipped with charge control systems that monitor the battery charge status and stop charging once the battery reaches a certain level to reduce fuel consumption.

Since the time required to charge the battery is shorter compared to previous car models, we recommend installing batteries that charge faster (have a high charge acceptance rate) in cars with charge control systems.



Timing Belt

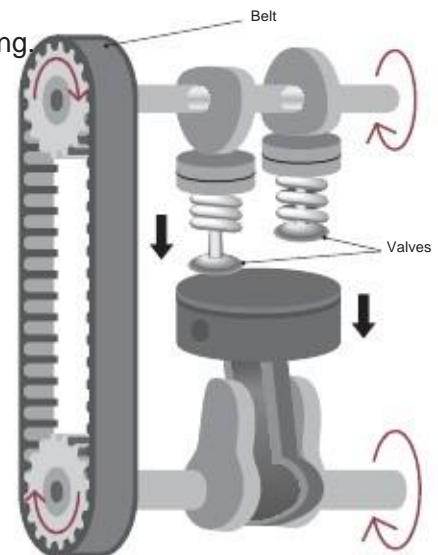
Function A timing belt transmits the engine intake and exhaust timing.

The engine adjusts the way intake and exhaust valves are opened and closed according to the intake, compression, combustion and exhaust processes. This belt transmits the timing for opening and closing the valves.

If It Deteriorates

The timing for opening and closing the intake and exhaust valves is disrupted.

Since the belt is mostly made of rubber, the teeth may chip or wear out. As a result, the timing for opening and closing the intake and exhaust valves is disrupted, and the engine stops working properly. In some cases, the belt may even tear, which not only causes the engine to stop working, but may also damage the parts inside the engine.



Useful Trivia In recent vehicles, the belt has been mostly replaced by a chain that does not need to be changed on a regular basis.

Recommended Replacement Interval

Severe Conditions

Normal Conditions

All Vehicles

No replacement required

Engine System

Drive Belt

Functions

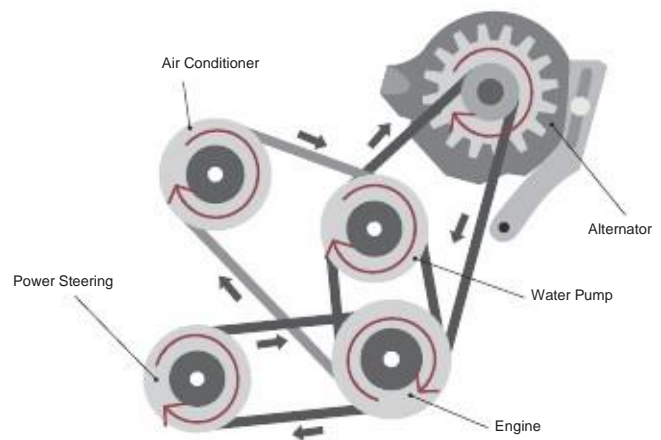
Drive belts transfer the power from the engine to various other parts to activate them.

Drive belts utilize the power generated by the engine to activate the alternator (generator), air conditioner, water pump, power steering and other equipment.

If It Deteriorates

If the belt tears, you will experience issues such as battery depletion.

If the belt tears because you have been using it without having its tension adjusted or without having the belt replaced, the engine may overheat, the battery may become depleted or the engine may stop.



Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	Check for looseness or damage during the scheduled maintenance [Recommended replacement interval: 36 months / 60,000 km]	

Fuel Filter

Functions

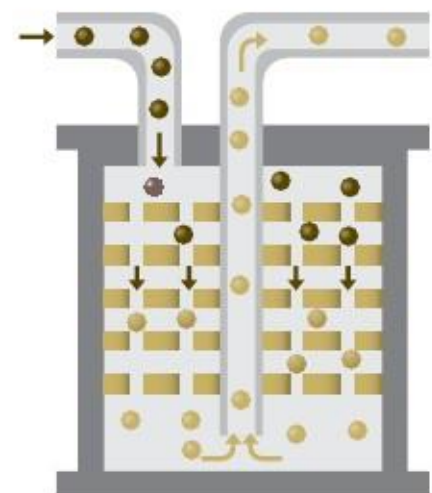
This filter keeps the fuel clean.

It removes any waste that can contaminate the fuel (gasoline) when you open the fuel cap.

If It Deteriorates

Filter deterioration results in fuel supply issues.

A deteriorated filter will clog, causing the engine to stop working properly.



Recommended Replacement Interval

	Severe Conditions	Normal Conditions
Other than below	160,000 km	
SKYACTIV-G	No replacement required	
SKYACTIV-D	60,000km	

Brake Pads

Functions

Brake pads clamp the disc rotors and slow the car down using friction.

With disc brakes, the brake pads slow the vehicle down by clamping both sides of the disc rotors that spin together with the wheels.

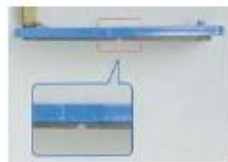
If It Deteriorates

The brakes stop working properly.

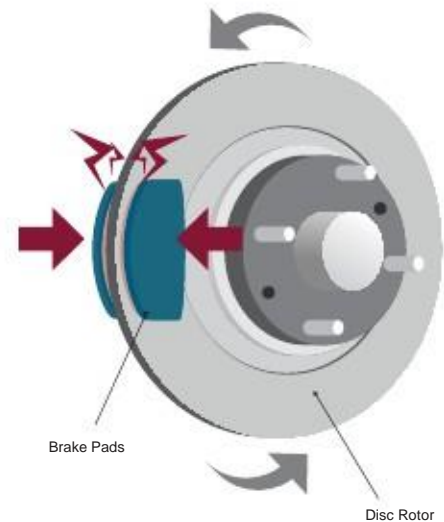
Just like an eraser, a brake pad gradually wears down every time the vehicle brakes. When a brake pad wears down, the brakes stop working properly.



Before Use



Worn Out



Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	The minimum brake pad thickness is 2 mm [Recommended replacement interval: every 30,000 to 50,000 km]	

Brake Shoes

Functions

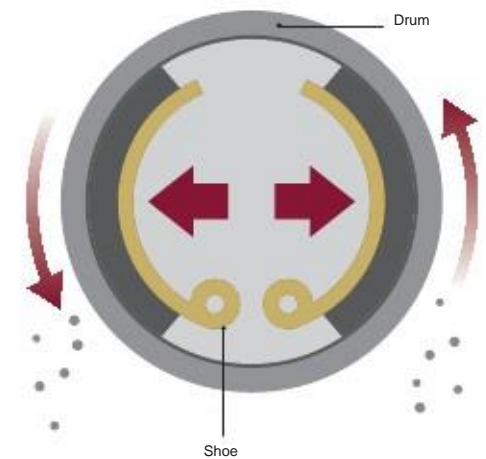
Brake shoes push the drums from the inside and slow the car down using friction.

Drum brakes slow the vehicle down by pushing the brake shoes against the inside of the drums that spin together with the wheels.

If It Deteriorates

The brakes stop working properly.

Just like an eraser, a brake shoe gradually wears down every time the vehicle brakes. When a brake shoe wears down, the brakes stop working properly.



Useful Trivia

The Difference between Disc Brakes and Drum Brakes

There are 2 types of brakes: disc brakes and drum brakes. The structure of disc brakes ensures an easy intake of the outside air, which makes cooling very efficient and allows the vehicle to brake safely even at high speeds. Drum brakes are used mostly in rear wheel brakes and parking brakes.

Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	The minimum brake shoe thickness is 1 mm [Recommended replacement interval: every 40,000 to 60,000 km]	

Brake System / Drivetrain

Brake Fluid

Functions

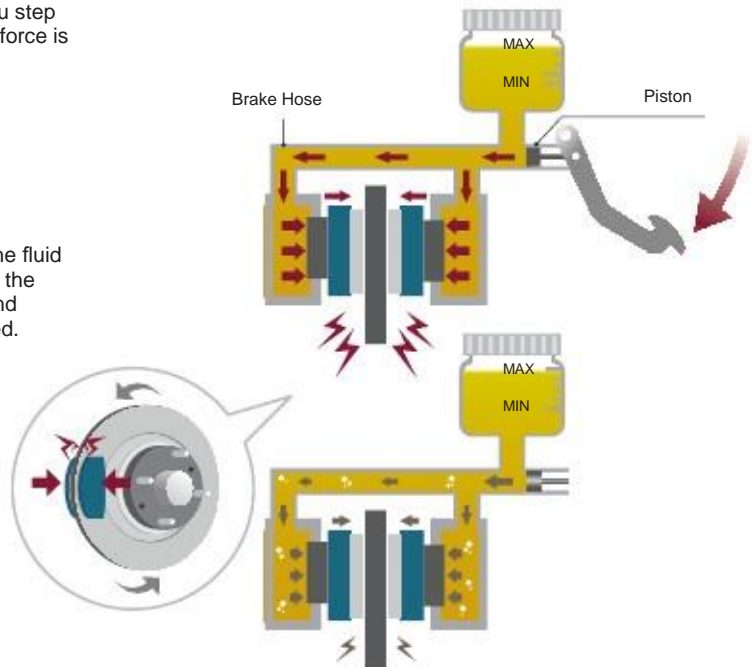
When you step on the brake pedal, the brake fluid transfers the force to the brakes.

The brake fluid transfers the force that is generated when you step on the brake pedal to the brake pads and brake shoes. That force is used to slow down the vehicle.

If It Deteriorates

The brakes stop working properly.

The brake fluid deteriorates with time. When that happens, the fluid starts absorbing the air humidity more easily, which prevents the force from the brake pedal from being transferred properly and causes the brakes to become weaker if the issue is not solved.



Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	After every 24 months	

Drive Shaft Boots

Functions

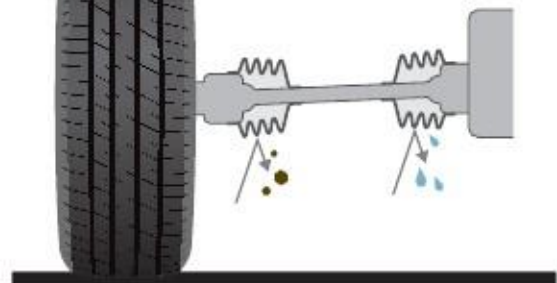
Drive shaft boots keep foreign material out of drive shaft joints.

The drive shaft transfers the engine power to the wheels. The rubber parts (resin) that cover the connections in the drive shaft are called drive shaft boots.

If It Deteriorates

Torn boots can generate abnormal sounds and the vehicle may become Inoperable if the problem is not fixed.

Drive shaft boots stretch and shrink constantly, and are exposed to water, pebbles and other objects on the road surface. If any cracks develop in the boot surface, water or pebbles can damage the joints of the drive shaft.



Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	Check for cracks or damage during the scheduled maintenance [Recommended replacement interval: 70,000 km]	

Tires

Functions

The tires transfer the way the driver wants to drive, turn or stop the car directly onto the road surface.

① Supporting the Vehicle Weight

The air inside the tires supports the weight of the passengers, luggage and the vehicle itself.

② Reducing Shocks

The air inside the tires works like a spring to absorb and reduce the shocks coming from the road surface.

③ Transferring Power to the Road Surface

The tires transfer the power from the engine or brakes to the road surface, allowing you to drive or stop the vehicle. The tire treads push the water from underneath the tires when it rains to keep the car from skidding.



Useful Trivia

Why Do Studless Tires Prevent the Vehicle from Skidding?

Studless tires are designed for snowy and icy conditions. Compared to the normal tires, studless tires have ① deeper and ② finer treads (sipes), and are ③ made of a type of rubber that does not lose its flexibility even in low temperatures.

If It Deteriorates

A deteriorated tire grip negatively affects the driving conditions.

The tire pressure decreases with time, and the tread depth decreases with mileage. (An 8-mm tread usually decreases by approximately 1 mm every 5,000 km.) Inadequate tire pressure increases the fuel consumption and has a negative impact on the riding quality. Driving with worn-out tires can result in a skidding accident.



Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	Tire performance is impaired when the tire tread reaches 3 mm. The minimum tire tread is 1.6 mm. [Recommended replacement interval: every 25,000 to 30,000 km]	

Gear Oil

Function s

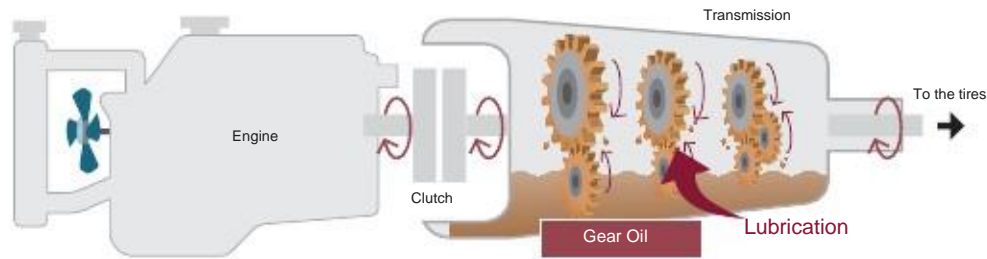
This oil lubricates the gears inside the transmission and differential.

Gear oil lubricates the gears inside the transmission and differential to ensure a smooth transfer of the engine power to the tires.

If It Deteriorates

Deteriorated oil can cause abnormal noises.

When gear oil deteriorates, gears may start producing abnormal sounds due to insufficient lubrication.



Recommended Replacement Interval

Transmission Oil	Severe Conditions	Normal Conditions
All Vehicles	No replacement required	
Differential Oil	Severe Conditions	Normal Conditions
All Vehicles	40,000km	

Wiper Blades

Function s

Wiper blades prevent rain or snow from blocking your view.

The rubber part of the wiper blades wipes water drops and other material off the windshield and rear window.

If It Deteriorates

The wiping performance and visibility decrease.

Prolonged use, temperature changes, UV light and similar factors lead to wiper deterioration, have a negative effect on the wiping performance, and cause chatter or windshield damage.

Useful Trivia

If the windshield of your vehicle has been treated with water repellent, be sure to use dedicated wiper blades and replacement parts (rubber parts). Normal wiper blades or refill parts will cause chatter and will not wipe the glass evenly.



Unwiped parts due to deteriorated wipers

Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles	When the wiping performance deteriorates [Recommended interval: every 6 to 12 months]	

Cabin Air Conditioner Filter

Functions

This filter cleans the air that enters the air conditioner.

The cabin air conditioner filter removes dust, pollen and other particulates from the air.

If It Deteriorates

The air conditioner becomes weaker.

Using a contaminated cabin air conditioner filter reduces the fan power and the air conditioning effect. The deodorizing performance also drops, which causes bad odor.



Before Use



Deteriorated

Recommended Replacement Interval

	Severe Conditions	Normal Conditions
All Vehicles		Every 12 months or 20,000 km

★We recommend having the cabin air conditioner filter changed after the specified period of time or mileage, whichever comes first.

