

My Liquid Protection. My Service



Useful Maintenance Fluids Tips.

Mercedes-Benz



Automatic Transmission Fluid

Why does my vehicle need automatic transmission fluid?

The vehicle's automatic transmission fluid acts as a lubricant for all of the moving parts inside the transmission as well as serving as a viscous fluid that transmits power from the engine to the transmission.

If the transmission fluid is not changed on schedule, the transmission may be filled with metal shavings and other contaminants, thus shortening the transmission's lifespan.

Allowing extended transmission fluid change intervals can harm the internal parts of your transmission, and will result in improper lubrication. The driver may not hear any noises or have other clues indicating that the transmission is low on fluid, until it is too late.

It is therefore important to get the transmission fluid checked and changed regularly before it results in a hefty repair bill when the transmission fails. Regular change of your transmission fluid at the correct interval is a good investment.

Why is it important to change your automatic transmission fluid regularly?

In Singapore, we tend to do a lot of city driving, hence there is a lot of start-and-stop driving. Such driving conditions put a lot of stress on the transmission.

Benefits to changing your automatic transmission fluid regularly:

- Prevent premature wear & tear of transmission components.
- Smoother gear changes.
- Better fuel economy.

Why should I get my automatic transmission fluid changed at Cycle & Carriage?

Using the wrong type of fluid can affect the way the transmission shifts and feels. Transmission may shift too harshly or slip under heavy load, which can accelerate clutch wear.

On most vehicles the transmission fluid level is checked with a dipstick while the engine is running. However in the newer models there isn't a dipstick for the transmission. Therefore during regular maintenance, Mercedes-Benz Authorised Service Centers would check the level and condition of the transmission fluid with special tools and equipment.

Hence it is advised that you change your transmission fluid at qualified specialist workshops such as Cycle & Carriage, as Mercedes-Benz approved transmission fluids are used.

Why use Mercedes-Benz approved automatic transmission fluid?

The Mercedes-Benz approved automatic transmission fluid is a highly specialised oil optimised for the special operating requirements of a Mercedes-Benz transmission, such as valve operation, brake band friction, torque convertor as well as gear lubrication.

Our transmission fluid contains a wide variety of chemical compounds intended to provide the required properties to care for your transmission.

There are many specifications for transmission fluids, but the best choice for your vehicle would be Mercedes-Benz approved products.

User Information

- **Recommendation:** Change transmission fluid every 60,000 km or 4 years, whichever comes first.
- Only use the correct transmission fluid specified in your owner's manual
- Be careful not to overfill the transmission. Too much fluid may cause foaming, which can lead to erratic shifting, oil starvation and transmission damage. It can also force transmission fluid to leak past the transmission seals.
- It is strongly advised that you bring your vehicle back to qualified specialist workshops such as Cycle & Carriage to check the level and condition of the transmission fluid with the recommended tools.
- Your Mercedes-Benz Authorised Service Center will have your complete servicing record history. Our service staff are the best people to advise on the necessary service and maintenance jobs based on your car's mileage. When in doubt, please give your Customer Service Advisor a call for clarifications.

Engine Coolant Fluid

Why does my vehicle need coolant?

The coolant consists of water and anti-corrosion/anti-freeze agents. The coolant fulfills the following functions among other things.

- Provide sufficient corrosion and cavitations protection for all cooling system components.
- Increase boiling point.
- Lower freezing point.

It is important to replace the coolant instead of topping up as the concentration of the coolant mixture will affect the engine's operations. Too much coolant concentrate and the engine would not be able to reach its optimum operating temperature. Too little coolant concentrate would cause the engine to overheat.

Our modern internal combustion engine requires heat in order to work adequately. As the engine may work above 100°C, if the radiator is only filled with water, the engine will overheat as it is well past water's boiling point. With the right coolant mixture, the engine's boiling temperature will be raised from 100°C to 120°C, thus allowing the engine to work at its optimum working temperature.

Why is it important to change your coolant regularly?

In tropical countries like Singapore with high outdoor temperatures, the coolant must be maintained within a stable temperature range in order to protect the cooling systems from overheating or corrosion.

Prolonged usage of the coolant would cause it to lose its cooling capacity and corrosion protection abilities. Changing of the coolant removes corrosion deposits, which clog up the radiator ducts and heat exchanger, damaging the cooling systems and engine.

Why should I get my coolant checked at Cycle & Carriage?

It is strongly advised that you visit Cycle & Carriage to have your coolant concentration checked, because qualified specialist workshops such as Cycle & Carriage would have the correct coolant mixture, methods, specifications and special tools for checking and replacing your coolant.

During coolant replacements, the cooling systems would be bled to ensure that there isn't any air trapped in the system.

Why use Mercedes-Benz approved coolant?

This coolant is specially formulated for your Mercedes-Benz cooling system and meets all specifications required by the strict factory standards. Thus giving you the best protection and better cooling efficiency, and an optimum operating condition for your engine.

User Information

- **Recommendation:** Coolant concentration should be checked every 6 months.
- Do not allow dilution of the coolant with water, as it will drastically change the composition of the coolant mixture, thereby altering the cooling efficiency and cause engine overheating.
- Always ensure that your cooling system is totally drained and new coolant is refilled at every interval. When the system is bled totally, air trapped in your cooling system which decreases the cooling capacity of the coolant, will be eliminated effectively.
- It is strongly advised that you bring your vehicle back to qualified specialist workshops such as Cycle & Carriage to measure the composition of the coolant with the recommended tools and equipment.
- Your Mercedes-Benz Authorised Service Center will have your complete servicing record history. Our service staff are the best people to advise on the necessary service and maintenance jobs based on your car's mileage. When in doubt, please give your Customer Service Advisor a call for clarifications.

Brake Fluid

Why does my vehicle need brake fluid?

When pressure is applied to the brake pedals, the brake fluid transfers the applied force to braking mechanisms near the wheels, through the hydraulic lines. Because brake fluid is subjected to high operating temperatures, it has a high boiling point to prevent vaporisation to maintain effective transfer of the braking force. Brake fluid also prevents corrosion of the components in the brake system.

Why is it important to change your brake fluid regularly?

Brake fluid absorbs water moisture from the atmosphere even through the vent bore of the expansion reservoir. This water contamination is higher in humid countries like Singapore and will tend to increase with more usage. This may reduce the effectiveness of your brakes and promote corrosion of the parts in the braking system.

Why should I get my brake fluid changed at Cycle & Carriage?

At Mercedes-Benz Authorised Service Centers we maintain strict service quality standards when handling brake repairs and material replacements.

1. Brake fluids are always stored in original Mercedes-Benz sealed vessels, to ensure brake fluids do not absorb moisture thereby reducing its boiling point.
2. During brake fluid change, the old brake fluid would be drained completely and replaced entirely. At Cycle & Carriage, we follow this process diligently every time.

3. Brake systems would be bled to ensure that there isn't any air lock or air trap.
4. When performing maintenance operations and repairs on brake parts, all parts are kept free from contamination to prevent a potential total failure to the brake systems.
5. Only new brake fluid is used in rinsing and cleaning of the brake cylinders.
6. Mercedes-Benz Authorised Service Centers always handle brake fluids with utmost care. Brake fluids react aggressively towards paint and colour. Any mishandling can cause damage to the paint work.

Why use Mercedes-Benz approved brake fluid?

The Mercedes-Benz approved Dot 4 Plus brake fluid corresponds not only to the requirements of the US Safety regulations, but also to Mercedes-Benz strict quality requirements.

It is designed to work optimally with all parts of your vehicle's brake systems, exhibiting the following important properties:

- Have a high boiling point hence preventing high temperature vapour locks which can lead to brake failure.
- Ensure that its boiling point remains constant throughout driving operations and is unaffected by varying atmospheric influences or operating conditions.
- Achieve total compatibility with the materials used in the Mercedes-Benz brake units.
- Improve corrosion protection for all metals present in the brake system.

User Information

- **Recommendation:** Replace your brake fluid completely every 30,000 km or 2 years, whichever comes first.
- Note: Vehicle models like pre face-lift E-Class (W 211), CLS (W 219) and SL (R 230) are required to have a complete change of brake fluid annually.
- It is strongly advised to use Mercedes-Benz approved products, as this would guarantee the acceptance of claims. It is also strongly advised that you visit qualified specialist workshops such as Cycle & Carriage's Authorised Service Centers during and after warranty coverage to replace or change your brake fluid.
- Your Mercedes-Benz Authorised Service Center will have your complete servicing record history. Our service staff are the best people to advise on the necessary service and maintenance jobs based on your car's mileage. When in doubt, please give your Customer Service Advisor a call for clarifications.

Cycle & Carriage (Authorised Dealer)

Service Enquiries Hotline: 6298 1818

Authorised Service Centers - Passenger Cars

Mercedes-Benz Center: 301 Alexandra Road, (S)159968

Pandan Loop Service Center: 188 Pandan Loop, (S)128378

Eunos Service Center: 330 Ubi Road 3, (S)408650

Sin Ming Service Center: 600 Sin Ming Avenue, (S)575733

Mon - Fri: 8.30 am - 6 pm, Sat: 8.30 am - 12 pm, Sun & PH: Closed

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