



ABC Hydraulic Pressure Pump Important installation procedure!

Please strictly follow the correct steps when installing the product, otherwise you will irreparably damage the parts! After installation no returns are accepted.

Please refer for installation to the complete installation description from Mercedes Benz.

Please check if you received the correct item, and inspect the item carefully. Returning a product is possible using the right of withdrawal if the item is un-used, not installed and undamaged. Please check the conditions that apply to the sale and returns.

Reading this document signifies your agreement to our terms and conditions. Work should only be performed by a trained mechanic else damage might be caused to the vehicle. The ABC system is working under a pressure of over 200 bar, taking the wrong installation steps can have serious consequences. You are responsible for studying the official service manual and the necessary safety proceedings that should be taken before working on, and raising the vehicle as when errors are made serious injuries and death can occur. Mercedes Benz software is required to pressurize and calibrate the system after installation.

- Check the functioning of all other components of the ABC system (control valves, pressure limiting valve, pressure sensor, pulsation damper, accumulators, ABC control computer, shocks, suction valve).
- We recommend strongly to install a new pulsation dampener when installing another ABC pump.
- Refreshing all ABC oil in the ABC system with a Flush using 12 liters of ABC oil is necessary to validate, use certified oil and official procedure only.
- Install any brackets from the old pump to the new pump taking care at maximum 1 bolt of the back side of the pump is taken off at the time. Loosing 2 bolts or more can result in the steering pump mechanism to fail.
- Swap the pulley wheel from the old pump to the new pump and make sure it fits correctly
- Check the position of the supply and return line on the pump from to the oil reservoir. If necessary they can be turned to match the direction of the lines of the vehicle. Turning should be done slightly heating the line by an hot air gun while turning with care.
- Verify how the new pump rotates trough all 360 degrees smoothly. Fill the pump with oil (use a funnel) while turning the pump a small turn every time. This way by filling the pump with oil you minimize the amount of air that ends up in the system later on.
- and is properly aligned. A bad fitted or aligned pulley wheel can result in unrepairable damage to the pump.
- Disconnect the battery, and bleed the system before working on the car.
- Install the pump in the unloaded car with the utmost attention to a very clean environment, dirt and particles on tools, lines, etc. can easily get into the ABC system. Any debris that enters the system contaminates the hydraulic fluid causing internal leakage of the seals.
- Follow the installation procedure from Mercedes Benz. Tighten all bolts to the specifications.
- Fill the ABC oil reservoir correctly using the 2 marks on the dipstick in lowest position 10 minutes after shutting off the engine and highest position with running engine.
- Important!** - Do not let the pump run dry! Always ensure good oil supply, otherwise the pump will be damaged.
- Important: Open control valve Y86 / 1 or Y86 / 2 with Mercedes WIS C3 / C4 or Star Diagnostic equipment BEFORE starting the engine for the first run.
- Important: Use compressed air to put pressure on the oil reservoir (maximum + 0.7 bar) such that the oil flow can start BEFORE starting the engine for the first run. If too much pressure is used, the seals inside the pump may become defect.
- Important: Bleed the system for air gently opening the line connectors a small turn on the pressure lines from the ABC and steering system, while gently turning the pump by hand, such that air escapes from the line and oil drips out. Then bleed the system by the bleeding valves. The smallest air bubble already causes problems in the ABC system.
- When the steps above are taken, start the engine for the FIRST time and check immediately that there is a proper oil flow to the pump by reading the pressure delivered by the pump with Star diagnostic equipment, to be approx. 170-180 bar. When pressure is insufficient, or 1 or 0 bar, shut down the engine immediately.
- Bleed the system again in loaded position and pressurized system with engine running, possibly several times, by opening the bleeding valves until all the air is out of the system.
- Turn the steering wheel 30 times to the left and right with the engine running to bleed the power steering system.
- Please use SDS and follow the instructions in the Mercedes Benz Diagnostic Equipment to calibrate the ABC system. The ABC rodeo test is not necessary after replacing the pump and will stress the system unnecessary.

Please contact us if you have questions

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