



ABC Hydraulic valve

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, bleed 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).
- Check the function of the accumulators by gently pressing inside against the membrane with a small flat object like a small Allen key. The membrane is weak or defect, or gas has escaped the accumulator, when you are able to push it more than a few mm inwards.
- We recommend strongly to install a new accumulator when installing another ABC valve.
- Refresh all ABC oil in the ABC system (ABC oil change 4 liter oil, or ABC flush 12 liter oil)
- Disconnect the battery, and bleed the system before working on the car.
- Install the valve 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.
- Follow the installation procedure from Mercedes Benz. Tighten all bolts to the specifications.
- After installation bleed the system, possibly several times, until all the air is out of the system. The smallest air bubble already causes problems in the ABC system.
- Please use SDS and follow the instructions in the Mercedes Benz Diagnostic Equipment to calibrate and bleed the ABC system.
- The ABC rodeo test is not necessary after replacing the valve and will stress the system unnecessary.

Please note;

- The front and rear valve blocks are similar units.
- The valve comes without accumulator, bracket and small line. The parts are mounted with 10mm and 17mm bolts and can be transferred from the old valve easily.
- We strongly advice to install a new accumulator.

Please contact us if you have questions

www.abcspecialist.nl

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ABC Hydraulic Valve block Y36/1 Y36/2

Part numbers: A2203200358, A2203201258, A2203280031

Location: 1 valve block with large accumulator near the front left wheel regulating the pressure to the front left and front right shock.

1 valve block with small accumulator between the rear wheels regulating the pressure to the rear left and rear right shock.

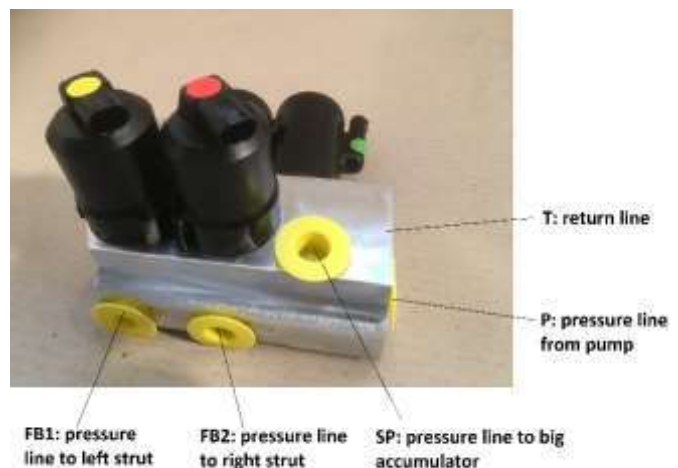
Function: The valves have a double function. One part of the valve block allows fluid to enter the strut, to close off the strut, or to leave the strut. When the ABC system is active, this control valve is operating and able to control the 3 different height levels during driving. The other part of the valve locks the struts at their current fluid levels when the ABC system is not in operation (locking valve). When the car is not running, parked or the transmission is not in gear, this valve is closed. When the car is put into drive or reverse, the valve will open. If the control module senses a malfunction and disables itself, it will also close this part of the valve for safety reasons.

Diagnosis: The car can lower after parking about 20mm because of cooling of the ABC oil. 30mm lowering after some weeks of parking is also normal. Some sinking after a period of time is normal even for a new parts. However when the car sinks too quickly or too deep, the valve block is internally leaking oil back from the struts to the system. Note that the wheels should always be free to move and turn. Another possibility is that the ride height is improper during driving, and/or the 3 height levels don't function properly when the engine is running.

Typical error codes: C1531-1: left front, C1531-2: right front, C1531-4: left rear, C1531-8: right rear

Installation: Removing and installing the valve assembly is quite easy. First bleed the system, then loosen the 17mm allen key bolts on the valve block. Working in a clean environment is strongly advised in order to keep the ABC system without debris. Please install the unit with the reverse process and bleed the system carefully after installation.

Note the marks on the valve: FB1 = Federbein links (Left strut), FB2 = Federbein rechts (Right strut), P = Druckleitung von Pumpe (Pressure line from distribution valve / Pump), SP = Druckleitung zum Druckspeicher (Pressure line to accumulator), T = Leitung zum Ausgleichsbehälter (Pressure return line to distribution valve).



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FAQ

What is the condition of the product? The product is refurbished or remanufactured. We aim to have our products look as good as possible, but it is still an used product and possibly the product has minor signs of usage. All products are tested before being sold.

How is the guarantee of the product? We aim to provide high quality products and all products are tested before being sold. However too often guarantee is being misused as an excuse for improper usage, thus at this moment we canceled to give any guarantee in terms of time or mileage on this products.

How is the product being shipped? The product will be shipped as soon as possible after all payments are made in a strong box with sufficient protection. We use shipping with insurance and use different couriers.

Can the product be shipped by express? We offer express shipping worldwide. Please contact us by mail or phone to receive a quotation.

Do I receive the product directly? Yes we ship the product directly after all payments are completed. You can install the new unit and send us the old unit afterwards, to receive the paid deposit back.

Why do I have to pay a deposit? These refurbished parts are offered by us at competitive prices while maintaining high quality standards. In order to do so, we use the old units for recycling. To be assured the old unit is returned, you will receive an invoice for a deposit. After the process of receiving and installing the new unit, you can ship back your old unit to receive back the deposit.

How do I have to pay a deposit? Together with the invoice of the product, you have received an invoice for the deposit. Please use the payment details mentioned. Your order will only be processed if all payments are completed.

How much is the deposit? Depending on the product the deposit is a different amount.

Can I keep the old unit? No, the agreed offer includes shipping back the old unit free of heavy damage. In case no old unit or a heavily damaged unit is received, additional costs are charged.

How do I receive the deposit back? The deposit is refunded in the same way as it was paid. Please send the undamaged old unit back in the original box, properly packed and free of oil. Please fill in the return form and attach it with the package. Please ship with a courier of your choice at your costs, we advise to use a shipping with insurance as you are liable for the proper return of the old unit.

Can I cancel the buy and send the item back? Yes, within a period of 14 days you are allowed to make use of your right of withdrawal, to return the item without specification of the reason, if the item is in the condition as it was sold. Also, you are allowed to send the item back in case the product is not as expected after visual inspection. No returns are possible after installation or usage. Please read the terms and conditions of the sale for the return process.

Do you have any advices when installing the unit? Yes please check the information we supplied with each sold unit and the Mercedes Benz official installation description. More information about the ABC system can also be found on our website. We advise to only install the product in workshops experienced with the ABC-system. Please use our information as advise, no rights can be derived from it.

Should I replace any other components? Yes we advise to install a new accumulator with each valve and to change the oil of the complete ABC system together with a new ABC filter.

The connection of the oil line on the shock seems to be different. What should I do? There are different models of oil lines and connectors. When you received a line that doesn't match, we will ship you the correct line directly and for free. Please return the wrong item to us afterwards.

The valve is leaking oil, what happened? Probably the pressure limiting valve, or 1 of the several accumulators are defect, resulting in too high pressure peaks. The sealings or top cap of the valve are probably blown by the high pressure, resulting in leakage. After installation no returns are possible.

The control valve on the valve block is not responding, what happened? Please check wiring and electric contact on the connector. Please be assured you didn't dropped the valve or it had a harsh impact, such that the sensitive electronics are now defect. Please contact your insurance to check if you can get a refund. No returns are possible after dropping the valve.

The car doesn't raise, what should I do? Probably the system pressure is insufficient or the system is not calibrated. Please follow instructions by Mercedes Benz SDS or contact us for advice.

The car sinks when being parked, what should I do? Probably the ABC valve is not closing well, such that oil is leaking back from the shock to the reservoir internally. Please inspect the valve and check the error codes with SDS. Please contact us for advice.

The car is stuck in its highest position, how do I proceed? Probably the ABC valve is not opening correctly or the system is stuck in an error mode. Please inspect the valve and check error codes with SDS or contact us for advice.