
TECH TIPS

Note* The information in the table (below) is specific to the vehicle application listed on the top of the table. Other makes and models might have the same looking module, but the pinout will vary. This is a simplified diagram, which only shows the “must-have” powers, grounds, and communications lines that are necessary for the ABS Module to communicate with the vehicle.

BOSCH 9.0 38-PIN (SMALL CONNECTOR)



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2014-2017 Mercedes Benz W222 S-Class			
PIN #	Description	Measure with Ignition	Expected Value
1	Power Supply	ON	+12V
7	Power Supply	ON	+12V
25	Power Supply	ON	+12V
28	Wake-up Power Supply	ON	+12V
13	Ground	OFF	Ground
38	Ground	OFF	Ground
11	FlexRay L	ON	≈ +2.4V
23	FlexRay H	ON	≈ +2.5V

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Tip_2 Why should you use DOT 4 Brake fluid over DOT 3?

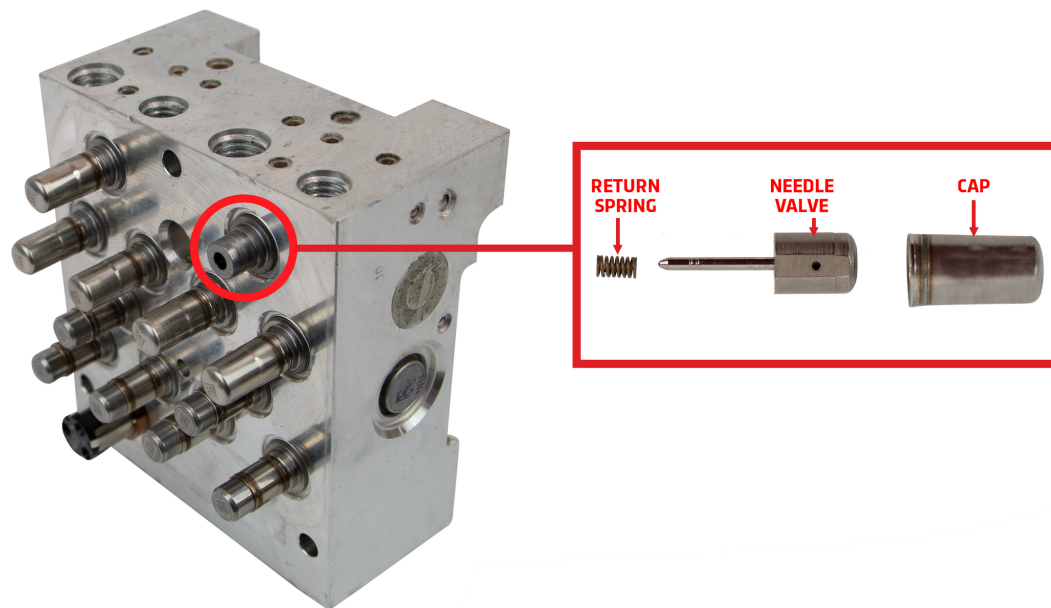
DOT 4 Brake fluid is the preferred choice of fluid to be used in modern ABS brake systems. We recommend that the DOT 4 is used in all vehicles even if it had DOT 3 brake fluid originally.

Here is why:

Aside from well-known facts such as DOT 4's higher boiling point and is suitable for heavy duty use. Its biggest advantage is that it degrades at a much slower rate. Therefore, it's less corrosive to the 12 sensitive to the zinc plated valves and springs inside the ABS hydraulic block. Here is the [link](#) to Ford's Safety Recall 19S54 which is precisely about upgrading their cars to DOT 4 Brake fluid and reasons for it.

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ABS HYDRAULIC BLOCK VALVE EXPLODED VIEW



Tip_3 Brake fluid replacement intervals.

Brake fluid should be flushed every two years or 24,000 miles. Follow your manufacturer's flushing procedure. In most cases, the diagnostic tool is needed to complete the procedure. One of the main reasons for that is that the ABS block has several valves that are in normally – closed position. This means the old brake fluid will be trapped in some passages inside the block. The diagnostic tool has a function that activates these valves during the flushing procedure. Degraded brake fluid will damage these valves over time and is the main reason for soft brake pedal feel.

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Tip_4 ABS Valve caps are sensitive to damage.

Take extreme care when handling the ABS Block. The valve protecting caps can be easily damaged. These caps are made from very thin stainless steel. Even a tiny dent will restrict the needle valve movement inside. Always ship the ABS Block with the module attached to it.



**TO AVOID DAMAGE DURING SHIPPING,
PLEASE SEND IT TOGETHER WITH THE
ABS MODULE**