

ENGINE 457.9 in MODEL 375.4, 940, 942, 943, 944
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

ENGINE 541.9 in MODEL 930, 932, 933, 934
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

ENGINE 542.9 in MODEL 930, 932, 934
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

ENGINE 900.9 in MODEL 375.1, 970, 972, 975, 976
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

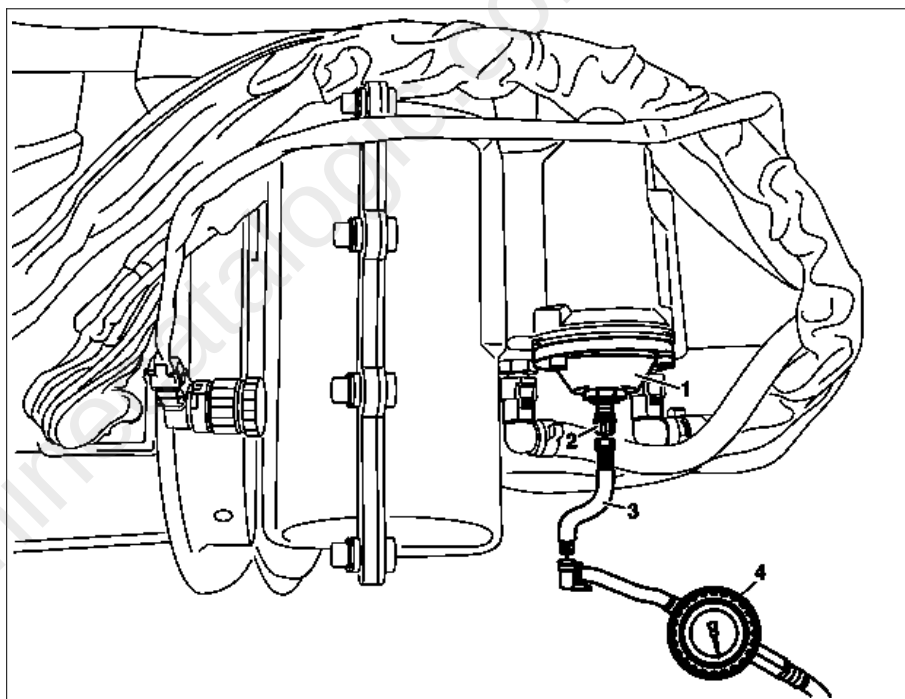
ENGINE 902.9 in MODEL 375.3, 950.5 /6, 952.5 /6, 953.6, 954.5, 957.5 /6
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

ENGINE 902.9 in MODEL 375.15, 970, 972, 974, 975, 976
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

ENGINE 924.9 in MODEL 970, 972, 974, 975, 976
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

ENGINE 926.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957.38 /5 /6
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

- 1 Pressure reservoir
- 2 Valve
- 3 Adapter line
- 4 Tire filler



N14.40-2008-06

	Fill		
1	Unscrew dust cap from valve (2) of pressure reservoir (1)		
2	Empty pressure reservoir (1) completely by actuating valve (2)		
3	Install adapter line (3) on the valve (2) of the pressure reservoir (1) Fill the adapter line to the AdBlue pressure reservoir		WF58.50-W-1490-01A
4	Adjust the pressure reducing valve to 3.7 bar and connect the tire filler (4) to this pressure reducing valve		
5	Fill pressure reservoir (1) using the tire filler (4)	⚠ The pressure of 3.7 bar in the adapter line (3) and pressure reservoir (1) must not be exceeded to prevent any malfunction to the system.	
6	Detach tire filler (4) and adapter line (3) and screw on dust cap (1)		

ENGINE 457.9 in MODEL 375.4, 940, 942, 943, 944
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

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with CODE (MS4) BlueTec 4
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ENGINE 542.9 in MODEL 930, 932, 934
with CODE (MS4) BlueTec 4
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ENGINE 900.9 in MODEL 375.1, 970, 972, 975, 976
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

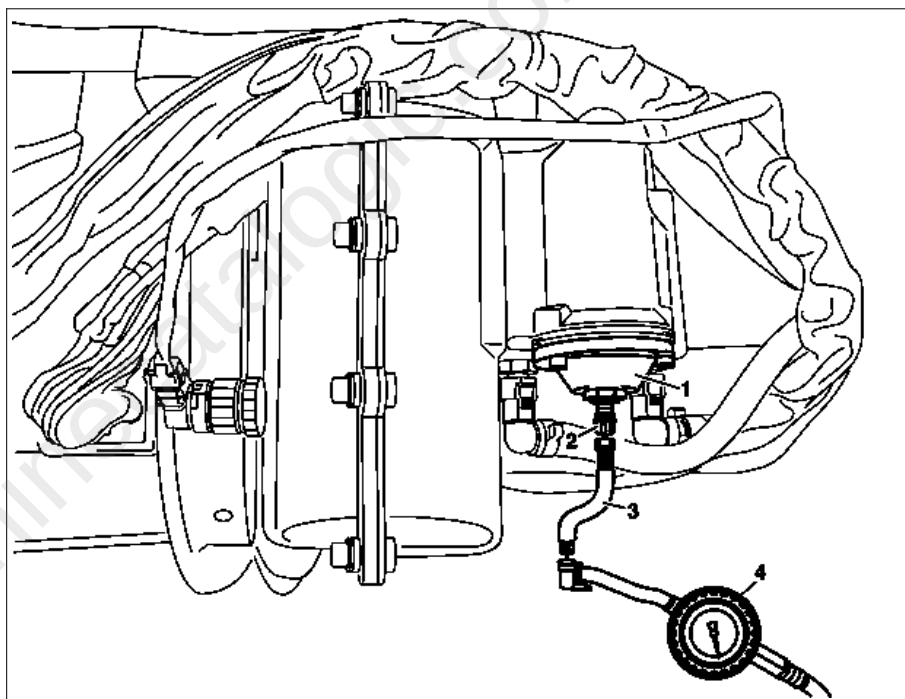
ENGINE 902.9 in MODEL 375.3, 950.5 /6, 952.5 /6, 953.6, 954.5, 957.5 /6
with CODE (MS4) BlueTec 4
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ENGINE 902.9 in MODEL 375.15, 970, 972, 974, 975, 976
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ENGINE 924.9 in MODEL 970, 972, 974, 975, 976
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with CODE (MS5) BlueTec 5

ENGINE 926.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957.38 /5 /6
with CODE (MS4) BlueTec 4
with CODE (MS5) BlueTec 5

- 1 Pressure reservoir
- 2 Valve
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- 4 Tire filler



N14.40-2008-06

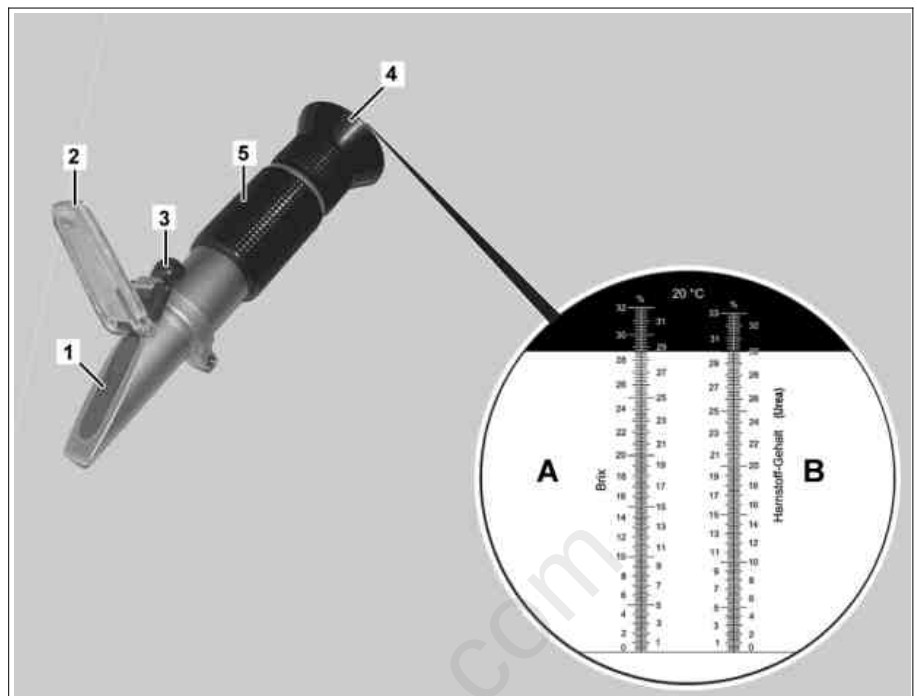
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2	Empty pressure reservoir (1) completely by actuating valve (2)		
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4	Adjust the pressure reducing valve to 3.7 bar and connect the tire filler (4) to this pressure reducing valve		
5	Fill pressure reservoir (1) using the tire filler (4)	⚠ The pressure of 3.7 bar in the adapter line (3) and pressure reservoir (1) must not be exceeded to prevent any malfunction to the system.	
6	Detach tire filler (4) and adapter line (3) and screw on dust cap (1)		

ENGINE 457.9, 541.9, 542.9, 900.9, 902.9, 924.9, 926.9 with CODE (MS4) BlueTec 4

ENGINE 457.9, 541.9, 542.9, 900.9, 902.9, 924.9, 926.9 with CODE (MS5) BlueTec 5

- 1 Prism
- 2 Hinged lid
- 3 Adjustment screw
- 4 Eyepiece
- 5 Refractometer

- A Brix scale
- B AdBlue scale



W14.40-1417-06

☐	Checking		
1	Adjust refractometer (5) for determining the AdBlue concentration		AR14.40-W-2041-01A
2	Remove a small amount of AdBlue from the AdBlue container using the waterlock		
3	Place 1 to 2 drops of AdBlue on the prism (1) of the refractometer (5)	i Closing the hinged lid (2) causes the AdBlue to be distributed evenly. ⚠ Ensure that the other parts of the refractometer (5) do not come into contact with the AdBlue since it could find its way inside the instrument.	
4	See through the eyepiece (4) against a light background.	i The scales can be set to sharp by turning the eyepiece (4).	
5	Read off the measurement at the light/dark boundary on the AdBlue scale (B)	i The urea content of AdBlue is 32.5%. The exhaust aftertreatment system can compensate for slight deviations. The AdBlue concentration is OK if the urea content is greater than 30%. If this is not the case, the AdBlue must be replaced.	
6	Carefully remove any AdBlue residues from the prism (1) and hinged lid (2)	i Only water without any addition of cleaning agent should be used to clean. ⚠ Ensure that the other parts of the refractometer (5) do not come into contact with the liquid otherwise moisture could find its way inside the instrument. The refractometer (5) is very sensitive to impacts and scratching.	

AR14.40-W-2047A	Check pump module for exhaust aftertreatment system for fuel/residues	23.3.09
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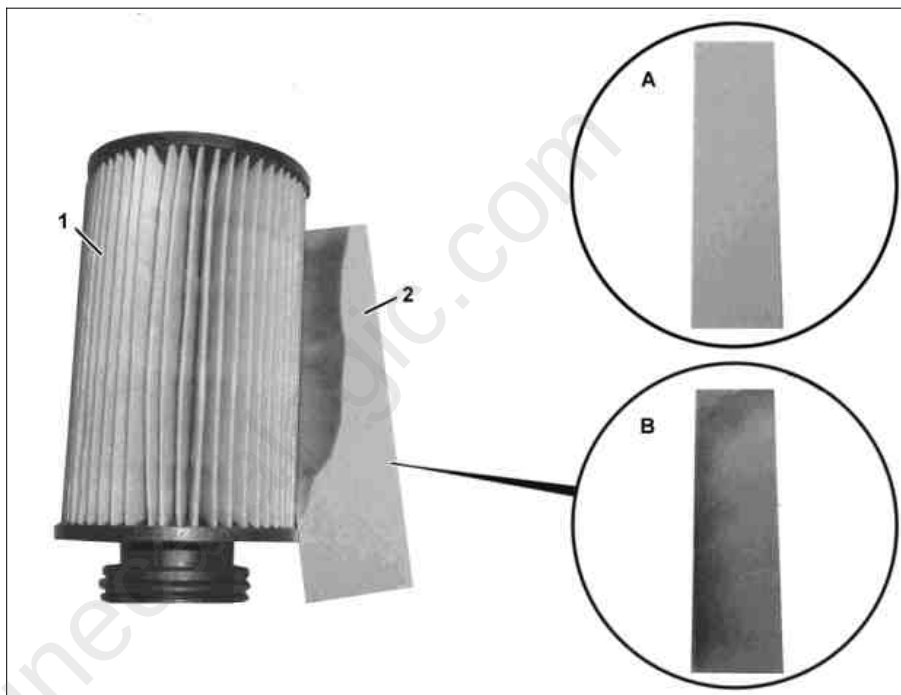
ENGINE	457.9 in MODEL 940, 942, 943, 944 with CODE (MS4) BlueTec 4
ENGINE	457.9 in MODEL 940, 942, 943, 944 with CODE (MS5) BlueTec 5
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ENGINE	902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS4) BlueTec 4
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ENGINE	924.9 in MODEL 970, 972, 974 with CODE (MS4) BlueTec 4
ENGINE	924.9 in MODEL 970, 972, 974 with CODE (MS5) BlueTec 5
ENGINE	902.9 in MODEL 950, 952, 953, 954, 957 with CODE (MS4) BlueTec 4
ENGINE	926.9 in MODEL 950, 952, 953, 954, 957 with CODE (MS5) BlueTec 5
ENGINE	902.9 in MODEL 950, 952, 953, 954, 957 with CODE (MS4) BlueTec 4
ENGINE	926.9 in MODEL 950, 952, 953, 954, 957 with CODE (MS5) BlueTec 5

1 AdBlue filter (pressure filter)

2 Test strips

A Test strips without discoloration

B Test strips with discoloration



W14.40-1490-06

	Removing		
1	Remove AdBlue filter (1) for pump module	Model 930 - 934 Model 940 - 944 Model 950-954, 957, 970-976	AR14.40-W-2009A AR14.40-W-2009B AR14.40-W-2009C
	Checking		
2	Rub test strips (2) firmly between the lamella of the AdBlue filter (1) and on the inner wall of the filter housing as well as the filter	If no discoloration occurs on the test strips (2): ↓ Proceed with step 6: If the test strips (2) are discolored there are residues of oil, diesel fuel, cold cleaning solvent or other hydrocarbon compounds in the AdBlue. ↓ Proceed with step 3:	
SI	Service Information: AdBlue tank filled with wrong fluid		SI14.40-W-0006A
3	Replace all AdBlue hose lines		
4	Replace pump module	Model 930 - 934 Model 940 - 944 Model 950-954, 957, 970-976	AR14.40-W-2007A AR14.40-W-2007B AR14.40-W-2007C
5	Replace AdBlue container	Model 930 - 934 Model 940 - 944 Model 950-954, 957, 970-976	AR14.40-W-2014A AR14.40-W-2014B AR14.40-W-2014C

Full Version Available

Mercedes-Benz 457.9, 541.9 and 542.9 Engine Service Manual

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