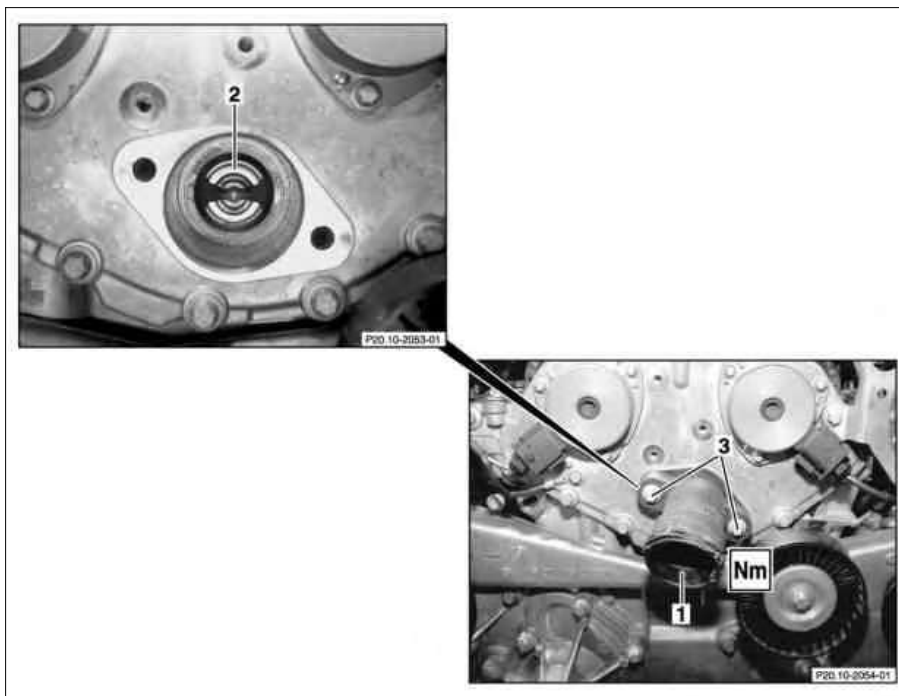


## Shown on engine 271.9

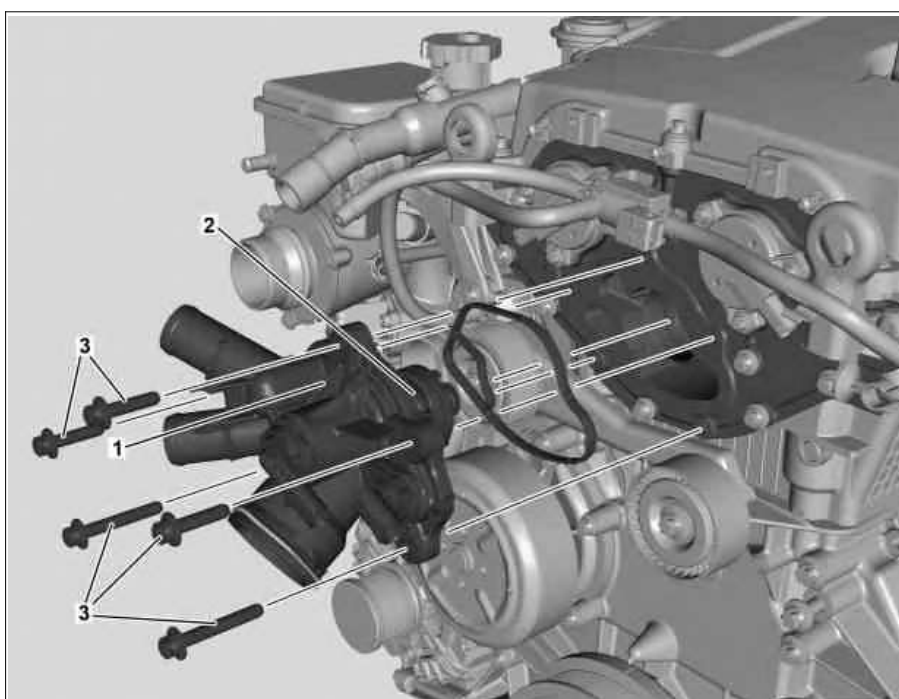
- 1 Housing
- 2 Coolant thermostat
- 3 Bolts



P20.10-2055-06

## Shown on engine 271.8

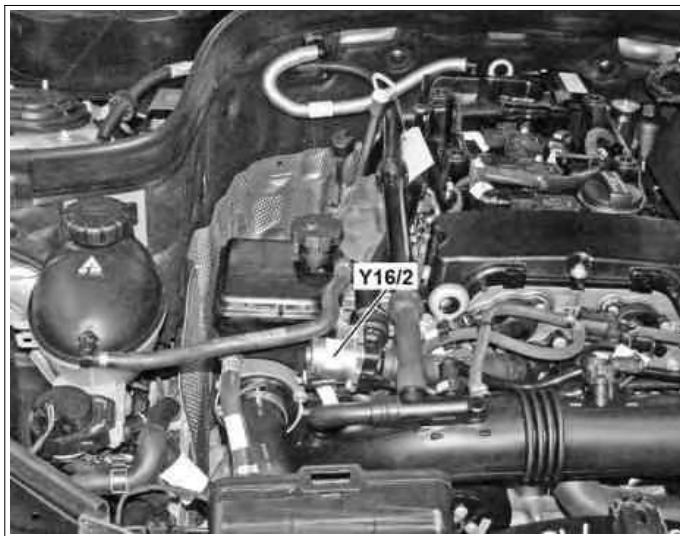
- 1 Housing
- 2 Coolant thermostat
- 3 Bolts



P20.10-2279-06

Shown on engine 271.8











Y16/2 Heating system shutoff valve



P20.00-2349-11

Modification notes

17.3.10	Use bolt for coolant temperature regulating housing with thread lock, added	Operation step 6	
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	Remove/install		
 <b>Danger!</b>	<b>Risk of injury</b> to skin and eyes caused by scalding from contact with hot coolant spray. <b>Risk of poisoning</b> caused by swallowing coolant.	Do not open cooling system unless coolant temperature is below 90°C. Open cap slowly and release the pressure. Do not pour coolant into beverage containers. Wear protective gloves, protective clothing and safety glasses.	AS20.00-Z-0001-01A
1 	Drain coolant at radiator Notes on coolant		AR20.00-P-1142CW AH20.00-N-2080-01A
2.1	Remove engine vacuum duct	Engine 271.9	
2.2	Remove air guide between air filter housing and turbocharger	Engine 271.8	
3	Remove heating system shutoff valve (Y16/2)	Engine 271.8 	*BA00.10-P-1002-01A
4	Remove expansion reservoir for P/S	 Engine 271.8: Place expansion reservoir with attached lines to one side.	AR46.25-P-1000EVO
5	Detach coolant hose (1) on the housing of the coolant thermostat (2)	 <b>Installation:</b> Check sealing ring and coolant hose for damage and replace if necessary.	
6	Remove screws (3) and remove housing (1) of coolant thermostat (2)	 <b>Installation:</b> Replace O-ring; insert bolts (3) with thread lock.  Loctite 243	*BA20.10-P-1003-01I *BR00.45-Z-1133-02A
7	Remove coolant thermostat (2) from housing (1)	 Engine 271.8: The coolant thermostat (2) and housing (1) create an assembly.	
8	Install in the reverse order		
9	Inspecting cooling system for leaks		AR20.00-P-1010CW
10	Check coolant level		
 <b>Danger!</b>	<b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
11	Perform an engine test run and perform function testing of the coolant thermostat (2) and check engine for leaks		

 **Headless screws: Screws and nuts, coarse-pitch thread**

Number	Designation	All models

BA00.10-P-1002-01A	M6	8.8	Galvanized	Nm	9
			Phosphated	Nm	9
		10.9	Galvanized	Nm	13
			Phosphated	Nm	12
		12.9	Galvanized	Nm	16
			Phosphated	Nm	14

**Nm Coolant pump, coolant thermostat**

Number	Designation	Engine 271
BA20.10-P-1003-011	Bolt, coolant thermostat housing at cylinder head	Nm 9

**Repair materials**

Number	Designation	Order number
BR00.45-Z-1133-02A	Loctite 243	A 613 989 09 71