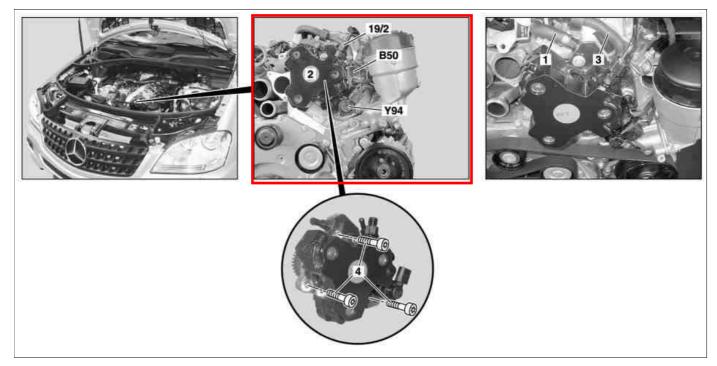
ENGINE 642 in MODEL 164, 251



P07.02-2067-09

- 1 Fuel hose
- 2 high-pressure pump3 Fuel hose
- 19/2

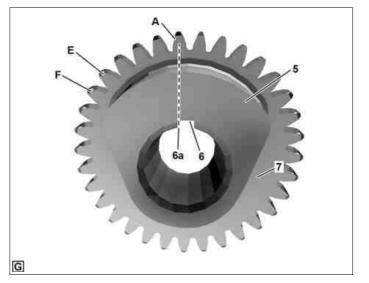
4

19/2 Pressure lineB50 Fuel temperature sensor

Screw/bolts

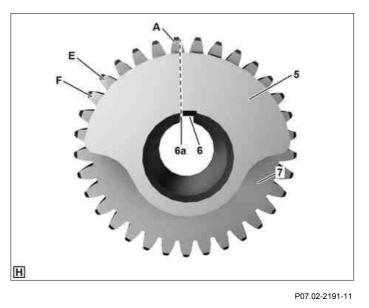
Y94 Quantity control valve

- 5 Correctional weight
- 6 Groove
- 6a Left edge
- 7 Drive gear
- A Tooth E Tooth
- F Tooth
- 1 100011



P07.02-2190-11

- 5 Correctional weight
- 6 Groove
- Left edge
- 6a 7 A E Drive gear Tooth
- Tooth
- F Tooth



P07.02-2191-11

⚠ Danger !	Risk of explosion caused by fuel igniting, risk		AS47.00-Z-0001-01A
	of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes		
	and skin caused by contactwith fuel.	Wear protective clothing when handling fuel.	
Δ Danger !	Risk of explosion caused by fuel igniting.	Keep all ignition sources out of hazard area.	AS07.16-Z-0001-01A
-	Risk of injury to skin and eyes caused by fue spraying out at high pressure	Do not carry out any work on system when it is pressurized.	
⚠ Danger !	Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	AS00.00-Z-0011-01A
X	Remove		
	Removes strut tower brace	MODEL 164.8 with ENGINE 642	
		i Remove strut tower brace from strut tower	AR62.30-P-2500GY
	Demonstration and the		A DO4 40 D 040507D
2	Remove engine cover	MODEL 164 with ENGINE 642	AR01.10-P-2405GZB
		MODEL 251 with ENGINE 642	AR01.10-P-2405RTB
3	Detach bracket from fuel pressure sensor on cylinder head cover	MODEL 251 with ENGINE 642.8	AR07.04-P-0030SXI
		i Lay fuel pressure sensor down to side with bracket and lines connected.	
4	Remove pressure line (19/2)		AR07.16-P-1080GZB
		Seal off the pressure line (19/2) using a $\overline{\mathscr{G}}$ stop plug. In this way ingress of foreign bodies is	
		avoided.	
		i Counterhold threaded sleeve of pressure line (19/2) when removing and installing using	
		a suitable tool.	*40050000400
		Precord plug	*129589009100
5	Detach fuel hoses (1, 3) from high-pressure pump (2)	() Close off fuel hose (1, 3) using a suitable g	
		stop plug. In this way ingress of foreign bodies is	
		avoided.	*129589009100
3	Disconnect electrical connection at quantity control valve (Y94)		
7	Disconnect electrical connection at the fuel temperature sensor (B50)		
3	Position piston of cylinder 1 on crankshaft to ignition TDC	The engine must not be turned back against the direction of rotation. The timing chain can skip otherwise and engine damage can occur.	
9	Remove screw/bolts (4) for high-pressure pump (2)	- ¥	

10	Remove high-pressure pump (2) from cylinder head	i The high-pressure pump (2) must not be disassembled or opened.	
X	Install	•	
11	Modify drive gear (7)	When replacing high-pressure pump (2).	AR07.02-P-1021GZB
12	Clean sealing surfaces of the high-pressure pump (2)		
13	Replace O-ring on high-pressure pump (2).	i Apply engine oil to the O-ring.	
14	Attach marking to tooth (A) of the drive gear (7)	 In order to apply the markings in the operation steps 12 and 13 and to adjust in operation step 14, the high-pressure pump (2) is brought into (for example held in) the installation position in a removed condition. Place the groove (6) vertically, determine from the left edge (6a) of the groove (6) vertically to the upper tooth (A) and mark. 	
15	Attach markings to teeth (E, F)	i Determine the teeth (E, F) from the tooth (A) counterclockwise. Here tooth (A) is the 1st tooth and the teeth (E, F) are the 5th and 6th tooth.	
16	Adjust the position from the drive gear (7) to the high-pressure pump (2)	i The teeth (E, F) must stand vertically upwards.	
17	Place high-pressure pump (2) on cylinder head	 Ensure that the previously adjusted drive gear (7) is not twisted. Vibrations will occur otherwise. 	
18	Screw on high-pressure pump (2) with screw/ bolts (4)	i Replace screw/bolts (4) due to micro- encapsulation. M Screw/bolt, high-pressure pump to cylinder head	*BA07.16-P-1021-01C
19	Separate electrical connection at the fuel temperature sensor (B50)		
20	Connect electrical connection to quantity control valve (Y94)		
21	Mount fuel hoses (1, 3) on high-pressure pump (2)	i Check condition of hose clamps and fuel hoses (1, 3) and replace if necessary.	
22	Install pressure line (19/2)	i Counterhold threaded sleeve for the pressure line (19/2) when releasing using an appropriate tool.	AR07.16-P-1080GZB
23	Mount bracket for fuel pressure sensor on cylinder head cover	MODEL 164 with ENGINE 642.8	AR07.04-P-0030SXI
⚠ Danger !	Risk of accident from vehicle starting off by itself when engine running. Risk of injury (bruises and burns) resulting from working on the engine while it is being started or when it is running.		AS00.00-Z-0005-01A
24	Check fuel system for leaks with engine running	() When replacing the high-pressure pump (2) the ignition must be switched on for at least 15 seconds before the engine is started. The high-pressure pump (2) would be damaged otherwise.	
25	Install engine cover	MODEL 164 with ENGINE 642	AR01.10-P-2405GZB
00	La sta U sta stitucio a la s	MODEL 251 with ENGINE 642	AR01.10-P-2405RTB
26	Install strut tower brace	MODEL 164.8 with ENGINE 642	AR62.30-P-2500GY

Nm Common rail diesel injection (CDI)

Number	Designation		ENGINE 642
BA07.16-P-1021-01C	Screw/bolt, high-pressure pump to cylinder head	Nm	15



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