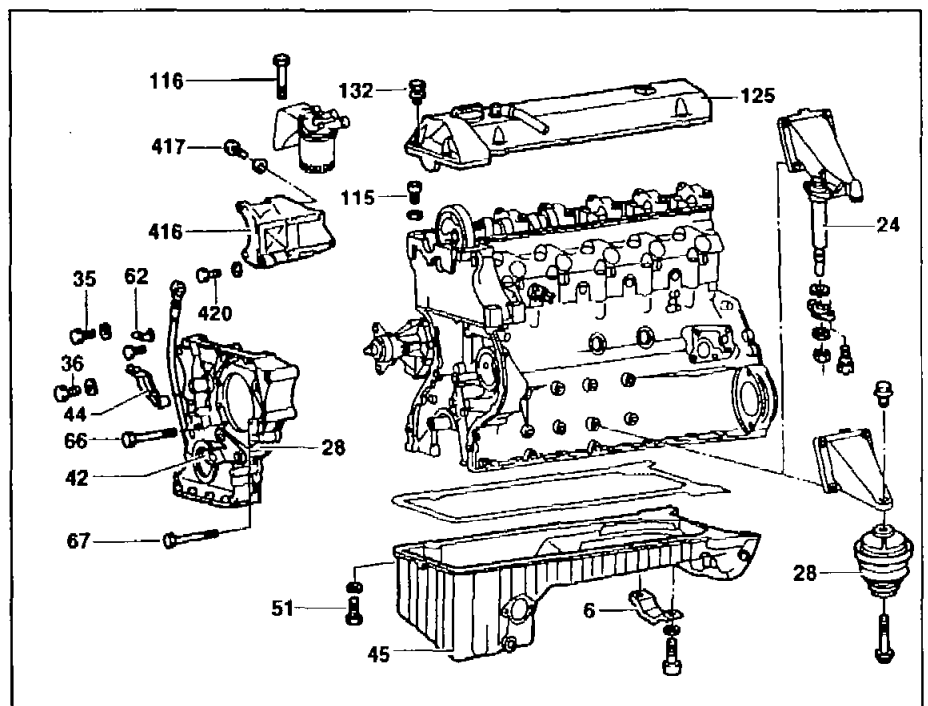


ENGINE 601 in MODEL 124, 201, 202

ENGINE 602 in MODEL 124, 201

ENGINE 603 in MODEL 124, 126, 140

- 6 Engine stop bracket
- 24 Engine shock absorber (Model 126, 201)
- 28 Timing case cover
- 35 Hexagon bolt
- 36 Hexagon bolt
- 42 TDC sensor bracket
- 44 TDC sensor bracket
- 45 Oil pan
- 51 Oil pan bolt
- 62 Bracket
- 66 Hexagon bolt
- 67 Hexagon bolt
- 115 Hexagon socket bolt
- 116 Hexagon bolt
- 125 Cylinder head cover
- 132 Cylinder head cover bolt
- 416 Generator carrier
- 417 Hexagon bolt
- 420 Generator carrier bolt



P01.40-0354-06

	Removing, installing		
1	Remove bottom engine compartment panel		
2	Remove radiator	Engine 601 in model 202 Engine 601, 602 in model 124, 201 Engine 603 in model 124, 126, 140	AR20.20-P-3865HA AR20.20-P-3865HW
3	Remove solenoid or viscous fan clutch	Engine 601 in model 202 Engine 601, 602 in model 124, 201 Engine 603 in model 124, 126, 140	20-335 AR20.40-P-5660HA AR20.40-P-5660HW
4	Remove crankshaft belt pulley and hub		AR03.30-P-1600HW
5	Remove piston vacuum pump		
6	Remove power steering pump or tandem pump, respectively		46-4000
7	Remove pressurized oil pump at cylinder head		
8	Disconnect ground cable at battery		AR54.10-P-0003A
9	Remove generator		AR15.40-P-5760EA
10	Drain engine oil		
11	Condensor	i Attach guard plate	
12	Remove cylinder head cover (125)	i On turbo engines or on engine 601 in model 202 the charge air pipe or air cleaner crosspipe, respectively, has to be removed before removing cylinder head cover.	



13	Unscrew front hexagon bolt (116) of fuel filter		
14	Unbolt bracket (62) of dipstick guide tube		
15	Unscrew hexagon bolts (417) at generator carrier (416) and take off carrier		BA15.40-P-1005-01A
16	Mark installation position of TDC sensor bracket (42 and 44) and unbolt	Installation: Check TDC sensor setting, set if necessary.	03-345
17	Unbolt bracket (6) of engine stop	Installation: Model 201 up to 03/1985: Inspect engine stop, set if necessary	22-220
18.1	Take off left engine shock absorber (24)	Model 201 (up to 03/1985)	22-240
19.1	Take off left and right engine shock absorbers (24)	Model 126	22-240
20.1	Attach engine hoist to front lifting eye of engine	Model 126 	WH58.30-Z-1001-07A
21.1	Unbolt front left and bottom right engine mounts	Vehicles except 4MATIC Engine 601, 602 in model 201 up to 03/85  Engine 601 in model 124, 201 as of 04/85 Engine 602 in model 124, 201 as of 04/85 Engine 603 in model 124, 140  Engine 601 in model 202	AR22.10-P-1260HZ  AR22.10-P-1260HX  AR22.10-P-1260HY
22.1	Unbolt front left and right engine mounts at top engine carrier	Vehicles with 4MATIC Shield of left and right engine mounts differ	AR22.10-P-1260HX
23	Raise engine with engine hoist	Until hexagon bolts of oil pan are accessible	
24	Unscrew hexagon bolts (115) of oil pan (45) in area of timing case cover	 Slacken remaining hexagon bolts of oil pan	BA01.45-P-1001-01A
25	Lower engine again onto engine mounts with engine hoist		
26	Unscrew hexagon bolts (66, 67) of injection pump attachment		
27	Hexagon socket bolts (115)	 Unscrew in chain housing  	BA01.40-P-1002-01A  116 589 03 07 00 BA01.40-P-1001-01A
28	Unscrew hexagon bolts (35, 36) of timing case cover		
29	Take off timing case cover (28)	When taking off timing case cover, pay attention to cylinder head gasket and oil pan gasket. Avoid damaging gaskets. Replace damaged cylinder head gasket. Clean contact surfaces of timing case cover. Seal cover with sealant. Inspect crankshaft radial seal in timing case cover, replace if necessary. ↓  Replacing front radial seal Sealant alternatively Sealant	AR03.30-P-1600HW BR00.45-Z-1010-01A BR00.45-Z-1014-01A
30	Install in the reverse order		



31	<b>⚠ Danger!</b>	Risk of accident as a result of vehicle starting off when engine running. Risk of injury as a result of bruises and burns if you insert your hands into engine when it is being started or when it is running.	Secure vehicle to prevent it starting off. Wear closed and close-fitting work clothes. Do not grasp hot or rotating parts.	AS00.00-Z-0005-01A AR01.40-P-8000HX/4
	Run engine and inspect for leaks.			

**Nm** Crankcase, timing case cover, end cover

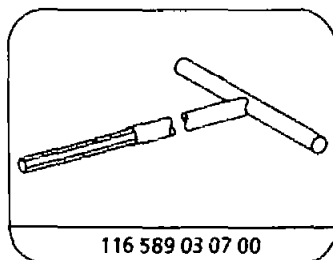
Number	Designation			Engine 601, 602 except 602.98, 603
BA01.40-P-1001-01A	Bolt of timing case cover to crankcase	M6	Nm	10
		M8	Nm	25
BA01.40-P-1002-01A	Bolt of cylinder head to timing case cover		Nm	25

**Nm** Oil pan

Number	Designation			Engine 601, 602 except 602.98, 603 except 603.913/963	Engine 603.913/963
BA01.45-P-1001-01A	Bolt of oil pan to crankcase	M6	Nm	10	10
		M8	Nm	25	25
		M10	Nm	40	-

**Nm** Generator

Number	Designation			Engine 601	Engine 602 except 602.982	Engine 603
BA15.40-P-1005-01A	Bolt of generator carrier to crankcase	M8	Nm	25	25	25
		M10	Nm	45	45	45



T hexagon socket wrench




Commercially available tools (see Workshop Equipment Manual)

Number	Designation	Make (e.g.)	Order number
WH58.30-Z-1001-07A	Engine hoist (self-locking)	Bäcker Herderstraße D-42853 Remscheid	3188

Repair products

Number	Designation	Order number
BR00.45-Z-1010-01A	Loctite 574 sealant	001 989 89 20 10
BR00.45-Z-1014-01A	Omnifit FD 3041 sealant (50 ml)	002 989 47 20 10

AS00.00-Z-0005-01A	Risk of accident as a result of vehicle starting off when engine is running. Risk of injury as a result of bruises and burns if you insert your hands into engine when it is being started or when it is running.	Secure vehicle to prevent it from moving off. Wear closed and close-fitting work clothes. Do not grasp hot or rotating parts.	 <b>Danger!</b>
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Possible dangers

**Risk of accident**

from vehicle starting off during starting operation (e.g. when testing compression pressure) as a result of gear engaged or when engine running and vehicles with automatic transmission as a result of selector lever position "P" or "N" not engaged (exception: some vehicles do not have a selector lever position "P").

**Risk of injury**

Severe injuries may be caused by freely rotating parts in the area of the running engine. The heat produced by the engine when it is operating can result in severe burns if contact is made with individual, unshielded parts.

Rules of conduct / Protective measures

- As a general rule, carry out work on the running engine only if this is absolutely essential.
- Before starting the engine, apply parking brake.
- On models with manual transmission, move gearshift lever into Neutral position.
- On models with automatic transmission, move selector lever into position "P" or "N" (exception: some vehicles do not have a selector lever position "P").
- On models which do not have selector lever position "P", secure selector lever to prevent it from being operated unintentionally.
- Wear closed and close-fitting work clothes.
- Take off any jewelry, such as chains, rings etc.
- If you have long hair, wear a suitable head cover.
- Before commencing work on the running engine, check to obtain a general picture of the positioning of parts which may be hot.
- When carrying out work when starting the engine or when engine is running, do not touch any hot and rotating parts.



**First aid measures in the event of burns**

- Do not rub the skin areas affected; flush with plenty of cold water and cover skin with sterile bandages.
- Immediately consult a physician.