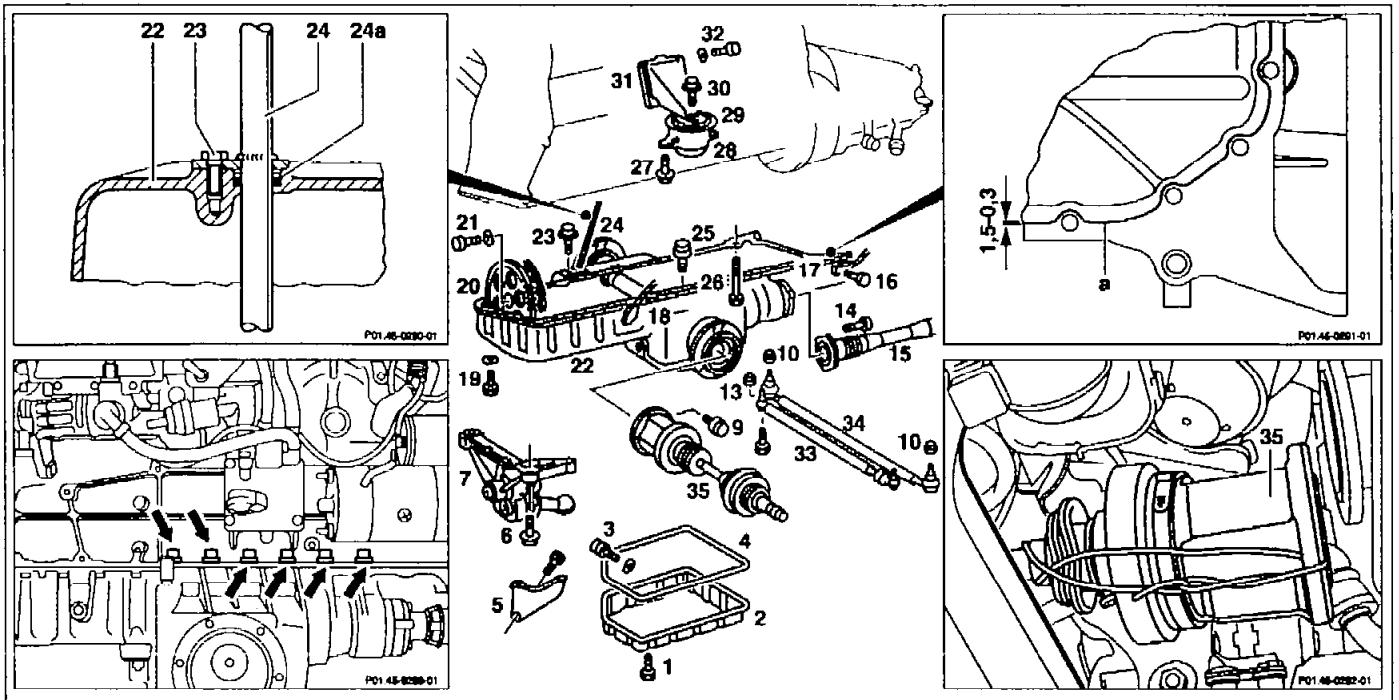











## ENGINE 603.913 /963 in MODEL 124



P01.45-0288-09

	Removing, installing		
1	Remove bottom engine compartment panel		
2	Remove air cleaner cover and air filter housing, respectively		
3	Remove fan shroud		
4	Disconnect ground cable at battery		AR54.10-P-0003A
5	Drain engine oil	 Pay attention to specified oil capacity	AP18.00-P-0101AA
6	Detach dipstick guide tube (24)	 Installation: Replace seal (24a)	
7	Unbolt steering shock absorber (33) at body	 Replace self-locking hexagon nuts (13)	46-6177
8	Remove track rod (34)	 Replace self-locking hexagon nuts (13) 	46-7007 201 589 14 33 00
9	Unbolt speed sensor L3 (16)		
10	Unbolt propellor shaft (15) for front wheel drive		41-060
11	Unbolt front drive shafts (35) at front axle housing	 Do not pull inner joint too far apart and align. Push together propellor shaft and secure with wire. Replace self-locking hexagon nuts.	33-0620
12	Unplug connector of oil level sensor (18)		
13	Unscrew hexagon socket bolts (1) of bottom part of oil pan (2)		BA01.45-P-1006-01A
14	Take off bottom part of oil pan (2) together with gasket (4)	 Installation: Clean off gasket residues at contact surfaces of bottom part. Replace gasket.	



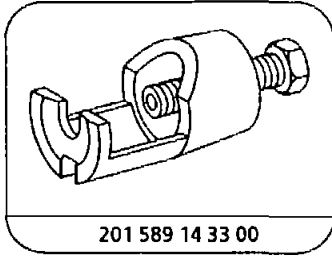
15	Unbolt support (5) at oil pump (7)		BA18.10-P-1006-01A
16	Attach engine hoist to front lifting eye of engine		WH58.30-Z-1001-07A
17	Unscrew hexagon bolts (27) at front left and right engine mounts (28) at frame crossmember		AR22.10-P-1260HX
18	Raise engine with engine hoist		
19	Unbolt left engine support (31) together with engine mounts		
20	Pinch off oil lines between transmission and oil cooler and transmission air-oil cooler, respectively, and unbolt at front axle housing		000 589 40 37 00
21	Support front axle housing (22) and unscrew hexagon bolts	Pay attention to different size and length of the hexagon bolts.	BA01.45-P-1001-01A
22	Unbolt chain sprocket (20) of oil pump	Installation: Install chain sprocket so that the convex face points toward oil pump.	BA18.10-P-1001-01A
23	Unbolt oil pump (7)		BA18.10-P-1004-01A
24	Take off front axle housing (22) to the rear	Installation: Pay attention to oil pump chain for this step. Clean off gasket residues on front axle housing and apply sealant (a = silicon bead). First of all position front axle housing against transmission and then against crankcase.	BR00.45-Z-1031-01A
25	Install in the reverse order		
<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 AR01.45-P-7500HX/4
26	Run engine and inspect for leaks		

Oil pan

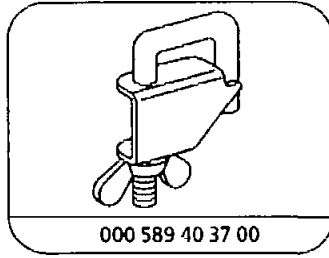
Number	Designation	Engine 603.913/ 963	
BA01.45-P-1001-01A	Bolt of oil pan to crankcase	M6	Nm 10
		M8	Nm 25
		M10	Nm –
BA01.45-P-1006-01A	Bolt of bottom part of oil pan to oil pan	Nm	10

**Nm** Oil pump

Number	Designation		Engine 601, 602 except 602.98, 603	Engine 604, 605, 606
BA18.10-P-1001-01A	Bolt of chain sprocket to oil pump	Nm	25	32
BA18.10-P-1004-01A	Bolt for oil pump (M8) to crankcase	Hexagon	Nm 25	25
		Torx	Nm -	-
BA18.10-P-1006-01A	Support of oil pump strainer	Nm	10	-



Puller




Clamp

**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-1031-01A	Dirko gray	001 989 61 20 10

A500.00-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>
--------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------

#### 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.

