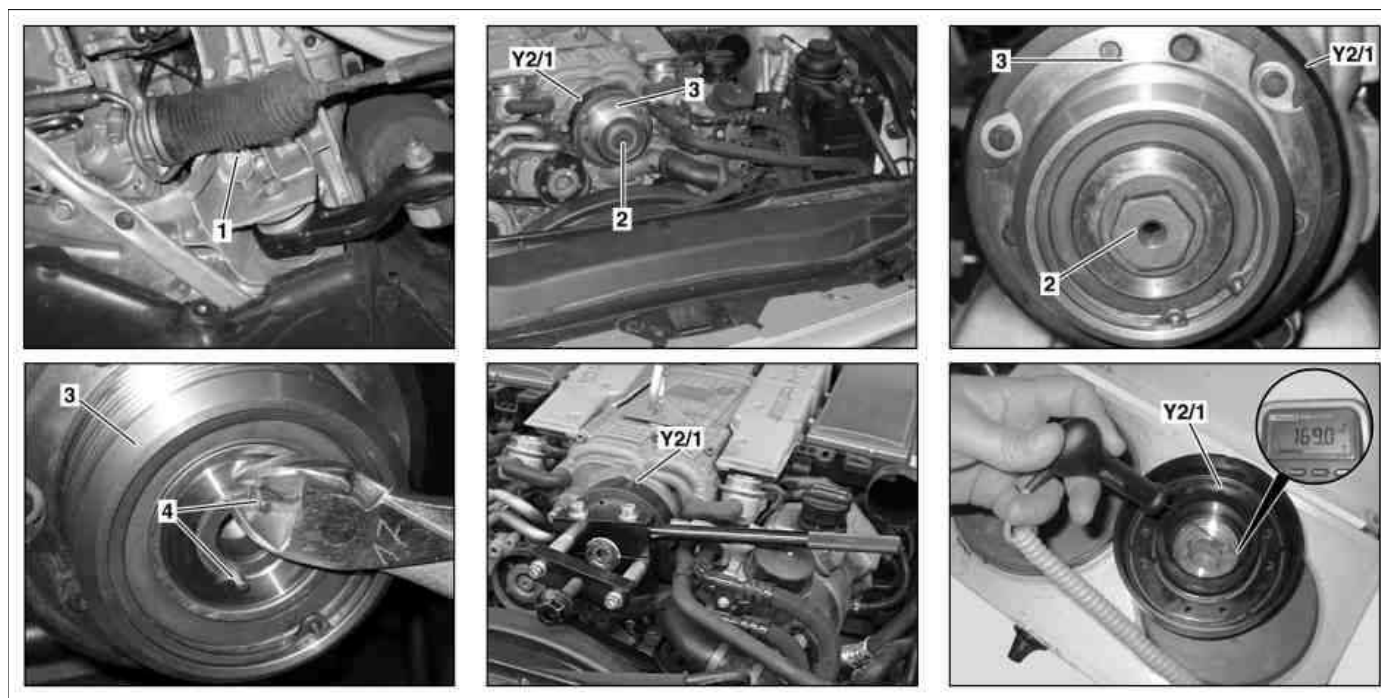




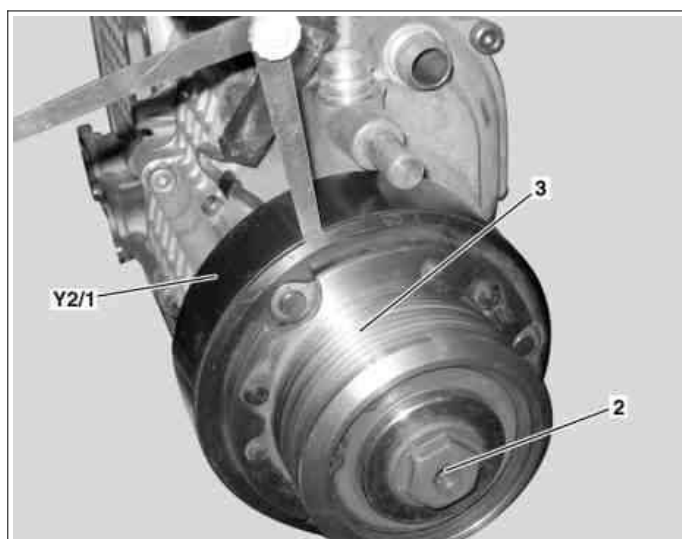
P09.50-2096-09

- 1 Front engine mount
- 2 Center bolt
- 2 Center bolt
- 3 Compressor belt pulley

- 3 Compressor belt pulley
- 4 Dowel pins

Y2/1 Supercharger magnetic clutch

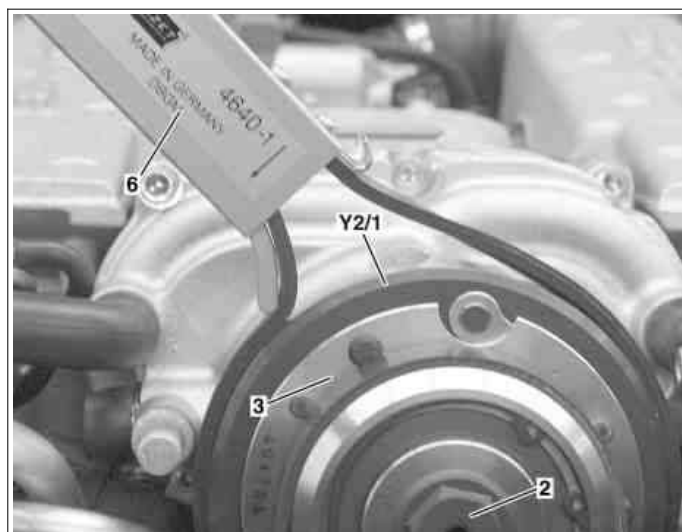
Y2/1 Supercharger magnetic clutch



P09.50-2097-11

- 2 Center bolt
- 3 Compressor belt pulley
- 6 General purpose tensioning strap

Y2/1 Supercharger magnetic clutch



P09.50-2098-11

	Remove		
 Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury 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
 Danger!	Risk of death caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
 Danger!	Risk of injury caused by fingers being pinched or crushed when removing, installing or aligning hoods, doors, trunk lids, liftgates or sliding roof	Keep body parts and limbs well clear of moving parts.	AS00.00-Z-0011-01A
1	Open engine hood and raise to vertical position	Model 211 Model 215, 220 Model 219 Model 230	AR88.40-P-1000T AR88.40-P-1000M AR88.40-P-1000TX AR88.40-P-1000R
2	Remove V-belt	Model 211, 215, 220, 230 Model 219	AR13.21-P-1202RVK AR13.21-P-1202TZ
3	Raise vehicle		
4	Remove bottom engine compartment paneling	Model 211 Model 219 Model 215, 220 Model 230	AR61.20-P-1105T AR61.20-P-1105TX AR61.20-P-1105M AR61.20-P-1105R
5	Loosen both front engine mounts (1)		
6	Lower vehicle		
7	Lift engine with engine hoist until center bolt (2) is accessible	 When doing this, check that the coolant hoses and hydraulic lines of the power steering pump do not become overstretched.  Bracket	*112589006200
8	Unscrew center bolt (2) with an impact wrench and compressor belt pulley (3)	 If belt pulley is seized use pulley with corresponding clamping pliers  To pull off, screw in center bolt without shim and use as a support.  Puller  Clamping pliers	*001589503300 *124589013400
9	Remove adjusting disks		
10	Screw adapter into center hole and flush-mount the puller	 Tighten the puller clamp screws evenly to 110 Nm .	
11	Remove magnetic clutch mechanical supercharger (Y2/1) using puller	 Do not lay puller lever against the oil filter housing. Get an assistant to counterhold.  Remove dowel pins (4), these will no longer be required when mounting the new magnetic clutch mechanical supercharger (Y2/1).  Clamping pliers	*113589003300
	Install		
12	Heat up new magnetic clutch mechanical supercharger (Y2/1) on a suitable hot plate to about 165 °C (± 5 °C)	 Place magnetic clutch with hub side on the hot plate.	
13	Wearing heat-resistant gloves, mount the heated magnetic clutch mechanical supercharger (Y2/1) and hold at end stop for about 30 s	 Do not tilt magnetic clutch when mounting. Allow to cool down to ambient temperature and clean the magnetic clutch.	
14	Attach old adjusting disks to magnetic clutch mechanical supercharger (Y2/1)		
15	Attach compressor belt pulley (3) to magnetic clutch mechanical supercharger (Y2/1)		
16	Measure air gap at compressor belt pulley	 Place center bolt (2) of compressor belt pulley and measure air gap at 3 points. Clearance	*BE09.50-P-1001-01A
17	Tighten center bolt (2) on compressor belt pulley (3)	 Hold center bolt (2) using counterholder or universal tensioning strap (6).  Nm Loctite 243	*BA09.50-P-1007-01B *BR00.45-Z-1133-02A
18	Install V-belt	Model 211, 215, 220, 230 Model 219	AR13.21-P-1202RVK AR13.21-P-1202TZ

19	Raise vehicle and tighten both front engine mounts (1)	 Model 211, 220  Model 215  Model 219  Model 230	*BA22.10-P-1002-03A *BA22.10-P-1001-01L *BA22.10-P-1001-01S *BA22.10-P-1001-03H
20	Install lower engine compartment paneling	Model 211 Model 215, 220 Model 219 Model 230	AR61.20-P-1105T AR61.20-P-1105M AR61.20-P-1105TX AR61.20-P-1105R
21	Lower vehicle		
22	Carry out engine test run		
23	Close engine hood	Model 211 Model 215, 220 Model 219 Model 230	AR88.40-P-1000T AR88.40-P-1000M AR88.40-P-1000TX AR88.40-P-1000R

Electromagnetic clutch

Number	Designation	Engine 113.990/ 991/992/ 995
BE09.50-P-1001-01A	Clearance mm	0.35 to 0.45

Engine mounts, engine supports

Number	Designation	Engine 113.991 in model 215
BA22.10-P-1001-01L	Bolt, front engine mount to front axle carrier Nm	35

Engine mount, engine support (engine side)

Number	Designation	Model 220	Model 211 except 4 MATIC	Model 211 with 4 MATIC
BA22.10-P-1002-03A	Front engine mount on front axle carrier Nm	35	35	35

Engine mount, engine support (engine side)

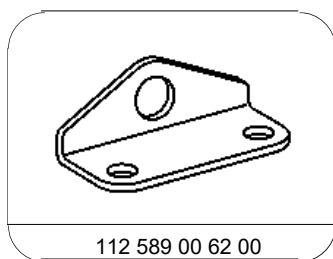
Number	Designation	Model 230 except model 230.476/477/479	Model 230.476/477/479
BA22.10-P-1001-03H	Bolt, front engine mount to front axle carrier Nm	35	35

Engine suspension, engine mounts, engine supports

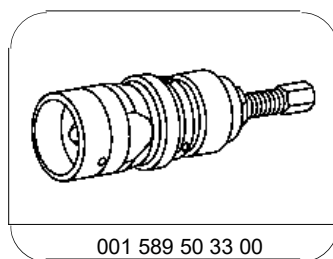
Number	Designation	Engine 113 in model 219
BA22.10-P-1001-01S	Bolt, front engine mount to front axle carrier	Nm 35

Supercharger

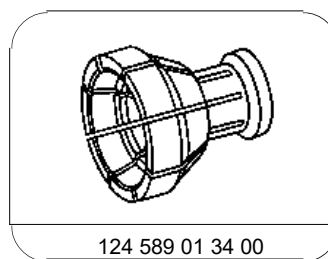
Number	Designation	Engine 113.990	Engine 113.991	Engine 113.992/ 995
BA09.50-P-1007-01B	Center bolt on compressor belt pulley	Nm 60	60	60



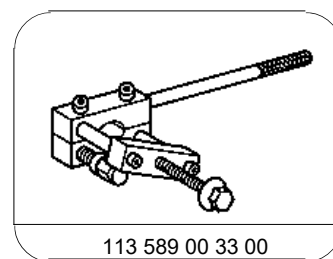
Bracket



Puller



Chuck



Puller

Repair materials

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