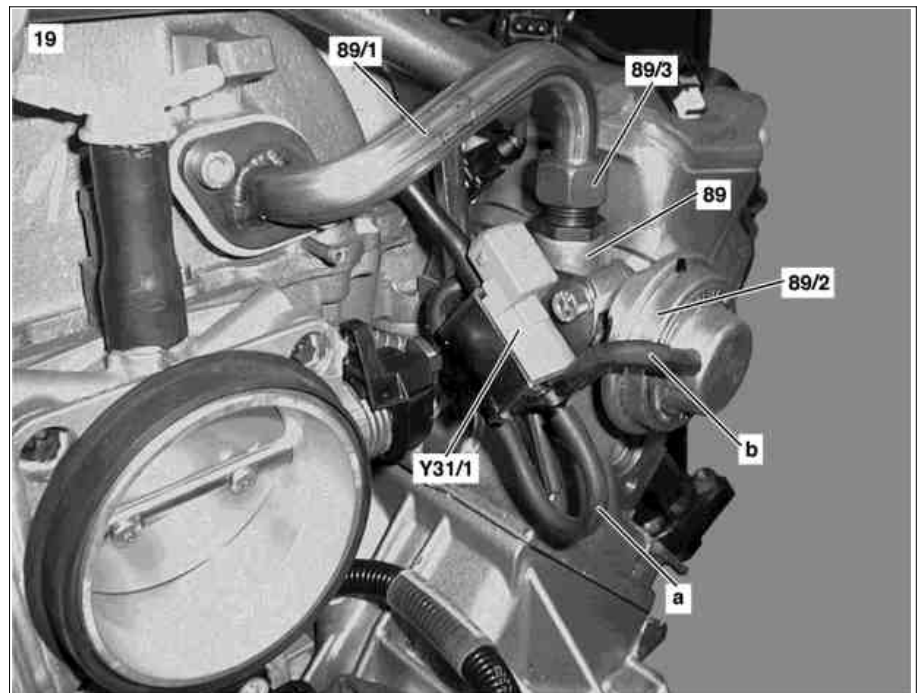


ENGINE	112.910 in MODEL	202.026 /086
ENGINE	112.920 in MODEL	202.029 /089
ENGINE	112.922 in MODEL	220.063
ENGINE	112.923 in MODEL	129.059
ENGINE	112.940 in MODEL	208.365 /465
ENGINE	112.921 in MODEL	210.063 /081 /263 /281
ENGINE	112.941 in MODEL	210.065 /082 /265 /282
ENGINE	112.943 in MODEL	129.064
ENGINE	112.944 in MODEL	220.065 /165
ENGINE	113.940 in MODEL	210.070 /270
ENGINE	113.941 in MODEL	220.070 /170
ENGINE	113.960 in MODEL	215.375, 220.075 /175
ENGINE	113.961 in MODEL	129.068
ENGINE	113.980 in MODEL	210.074 /274
ENGINE	113.944 in MODEL	202.033 /093
ENGINE	113.943 in MODEL	208.370 /470
ENGINE	113.984 in MODES	208.374
ENGINE	112.912 in MODEL	203.061 /261, 209.361 /461
ENGINE	112.946 in MODEL	203.064 /264
ENGINE	112.947 in MODEL	170.465
ENGINE	113.963 in MODEL	230.475
ENGINE	113.968 in MODEL	209.375 /475
ENGINE	112.913 in MODEL	211.061 /261
ENGINE	112.949 in MODEL	211.065 /265
ENGINE	113.967 in MODEL	211.070 /270
ENGINE	113.987 in MODEL	209.376 /476
ENGINE	112.955 in MODEL	209.365 /465
ENGINE	112.916 in MODEL	203.081 /281
ENGINE	112.953 in MODEL	203.084 /284
ENGINE	112.975 in MODEL	220.087 /187
ENGINE	113.948 in MODEL	220.083 /183
ENGINE	113.966 in MODEL	220.084 /184
ENGINE	112.917 in MODEL	211.080 /280
ENGINE	112.954 in MODEL	211.082 /282
ENGINE	113.969 in MODEL	211.083 /283
ENGINE	113.988 in MODEL	203.076 /276
ENGINE	113.989 in MODEL	171.473

Shown on engine 112

- 19 Intake manifold
 89 Exhaust gas recirculation valve
 89/1 Exhaust gas recirculation line
 89/2 Vacuum reservoir
 89/3 Union nut
 a Vacuum line from intake pipe
 b Vacuum line
 Y31/1 ARF vacuum transducer

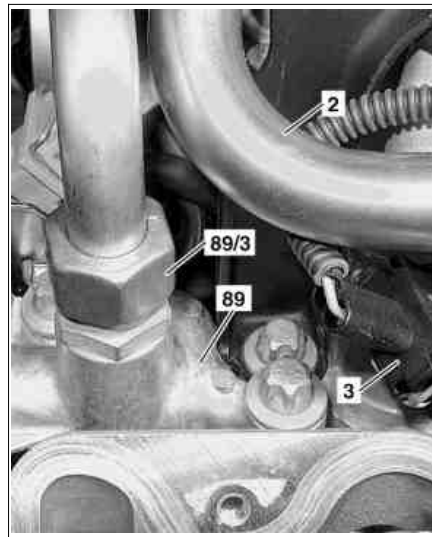


P14.20-0263-06

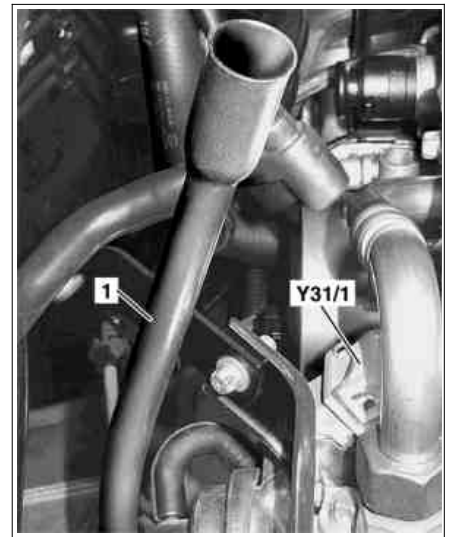
Shown on engine 112

- 1 Oil dipstick guide tube
- 2 Fuel rail
- 3 Plug connection
- 89 Exhaust gas recirculation valve
- 89/3 Union nut

- Y31/1 ARF vacuum transducer



P14.20-2075-02








P14.20-2076-02

Modification notes

13.5.02	Value changed from 23 to 40 Nm	Value in series altered BA14.20-P-1002-01B for engine 112.913/949	*BA14.20-P-1002-01B
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	Remove/install		
Danger!	Risk of injury to skin and eyes caused by handling hot or glowing objects.	Wear safety gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
1	Remove cover on front side of engine	Model 129, 211, 215, 220, 230	
2.1	Remove air filter housing	Model 171.473 Model 203.076/ 276 Model 209.376/ 476 as of 24.4.04	AR09.10-P-1150AC
2.2	Remove engine cover with integrated air filter	except model 171.473 Model 203.076 /276, Model 209.376/ 476 as of 24.4.04 i The air filter is integrated in the engine cover. Remove engine cover or air filter by pulling it vertically up and off the cylinder head covers. i Installation: Moisten slightly with lubricating paste retainers on the cylinder head covers and the sealing ring of the hot film mass air flow sensor in the air filter housing. Lubricating paste	*BR00.45-Z-1002-06A
3	Remove hot film mass air flow sensor with air intake pipe	Engine 112.910 /920 /921 /940 /941 Engine 113.940 Engine 112.922 /923 /943 /944 /975 Engine 113.941/ 948/ 960/ 961/ 963/ 966 Engine 113.943 /944 /980 /984 Engine 112.912 /913 /916 /917 /946 /947 /949 /953 /954 /955 Engine 113.967 /968 /969 /987 /988 /989	AR07.07-P-1454A AR07.07-P-1454AA AR07.07-P-1454AG AR07.07-P-1454SV
4.1	Remove oil dipstick guide tube (1) and turn to the side	Model 203, 209 i Installation: Ensure correct seating of sealing ring of oil dipstick guide tube (1) in oil pan top section.	
4.2	Detach oil dipstick guide tube (1) from bracket on exhaust gas recirculation valve (89) and turn to the side	Model 171.473 Model 211	
5	Remove retaining bracket from oil dipstick guide tube (1)	Model 171.473 Model 230.475 Model 203.076/ 276	
6	Detach fuel distributor rail (2) on right side and push to the side	Model 211	
7	Unplug connector (3) from injection valve	Model 171.473 Model 211 Model 203.076/ 276	
8	Unplug connector on EGR pressure transducer (Y31/1).		
9	Detach vacuum line (b) to vacuum unit (89/2) and EGR pressure transducer (Y31/1)		

10	Unscrew union nut (89/3) on exhaust gas recirculation valve (89)	 Model 211, 230.475: pull EGR pipe (89/1) out of exhaust gas recirculation valve (89). 	*BA14.20-P-1002-01B
11	Dismount EGR line (89/1) from intake manifold (19)	Except model 230.475 	*BA14.20-P-1003-01B
12	Unscrew exhaust gas recirculation pipe (89) from cylinder head		*BA14.20-P-1001-01B
13	Remove exhaust gas recirculation valve (89)	 Installation: Replace gaskets. Note length and routing of vacuum line from intake manifold to EGR [ARF] vacuum transducer (Y31/1) . Incorrect routing may cause throttle lever to jam.	
14	Install in the reverse order		

 Exhaust gas recirculation

Number	Designation		Engine 112.910/912/916/ 920/921/922/923/ 940/941/942/943/ 944/945/946/947/ 953/972/975	Engine 112.913 / 917/949 / 954/955 / 970/973	Engine 113.940/941/942/ 943/944/948/960/9 61/962/964/965/96 6/967/968/969/971 /980/981/982/984/ 987/988	Engine 113.963
BA14.20-P-1001-01B	Bolt, exhaust gas recirculation valve to cylinder head	Nm	20	20	20	20
BA14.20-P-1002-01B	Union nut, exhaust gas recirculation pipe to exhaust gas recirculation valve	Nm	40	40	40	23
BA14.20-P-1003-01B	Bolt, exhaust gas recirculation pipe to intake pipe	Nm	9	8	9	8

 Exhaust gas recirculation

Number	Designation		Engine 113.989
BA14.20-P-1001-01B	Bolt, exhaust gas recirculation valve to cylinder head	Nm	20
BA14.20-P-1002-01B	Union nut, exhaust gas recirculation pipe to exhaust gas recirculation valve	Nm	40
BA14.20-P-1003-01B	Bolt, exhaust gas recirculation pipe to intake pipe	Nm	9

Repair materials

Number	Designation	Order number
BR00.45-Z-1002-06A	Lubricating paste, rubber parts 2.5 kg, DB supply specification 6867.00	A 000 989 01 60