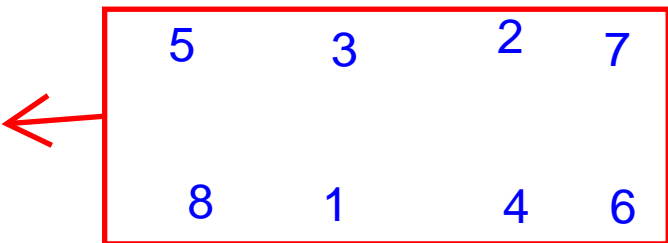
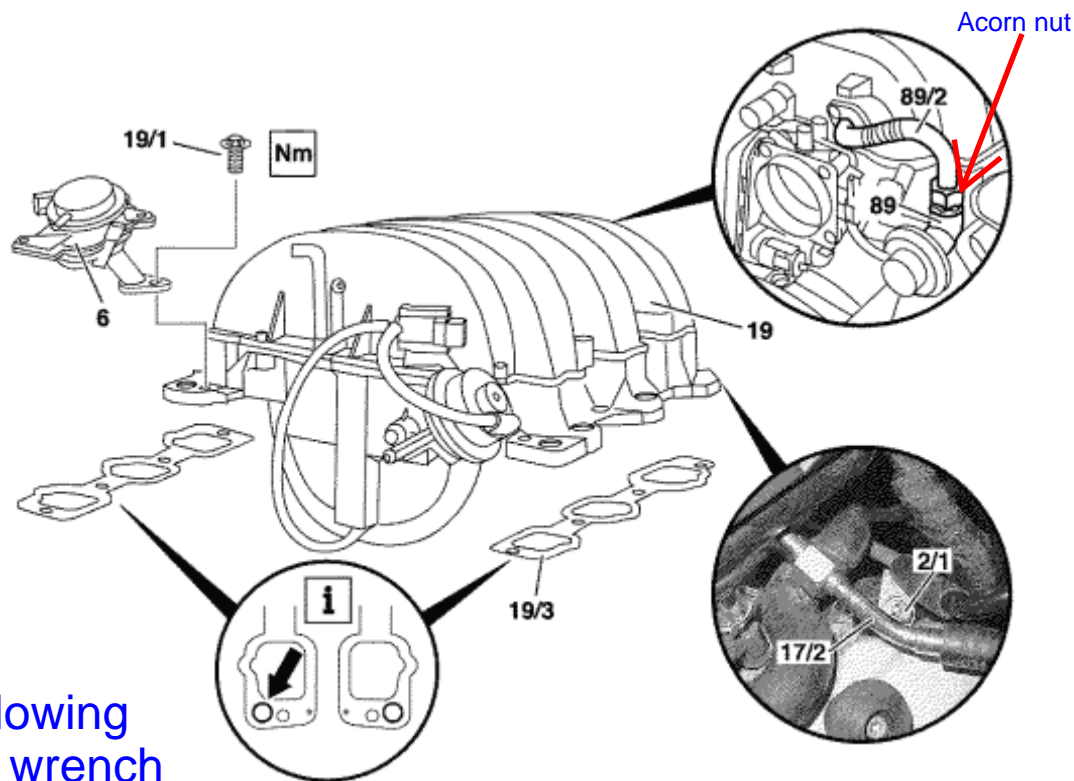


AR09.20-P-1310A	Remove/install intake manifold	4.7.96
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ENGINE 112.942 in MODEL 163.154
 ENGINE 113.942 in MODEL 163.172
 ENGINE 113.981 in MODEL 163.174
 ENGINE 112.970 in MODEL 163.157
 ENGINE 113.965 in MODEL 163.175

Shown on engine 112

- 2/1 Bolt of cylinder head cover
- 6 Combination valve
- 17/2 Feed line
- 19 Intake manifold
- 19/1 Bolt
- 19/3 Gasket
- 89 Exhaust gas recirculation valve
- 89/2 Line
- Arrow Hole for combination valve










Run down bolts to snug following sequence, then use torque wrench with same sequence.


P09.20-0283-06

	Remove/Install		
Danger!	Risk of explosion from fuel igniting,	No fire, sparks, naked flames or	AS47.00-Z-0001-01A

	risk of poisoning from inhaling and swallowing fuel as well as risk of injury to eyes and skin from contact with fuel.	smoking. Pour fuels only into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	
1	Disconnect key from electronic ignition lock	i Vehicles with electronic ignition switch control unit (EIS)	
		i Vehicles with Keyless Go, code 889: Switch off engine, remove Keyless Go cards from the vehicle and store outside of transmitter range.	
2	Remove engine trim panel with integrated air cleaner	i The air cleaner is integrated in the engine cover. Remove engine trim panel or air cleaner by pulling it vertically up and off the cylinder head covers.	
3	Remove hot film mass air flow sensor with air intake pipe	Model 163.154/157	AR07.07-P-1454A
		Model 163.172/174/175	AR07.07-P-1454MV
4	Disconnect the lead line (17/2) at the fuel distributor	i Reduce fuel pressure via service valve and collect fuel!	
		S Pressure hose	119 589 04 63 00
		Nm M112: Fuel feed line to fuel distributor	BA07.52-P-1001-01A
		Nm M113: Fuel feed line to fuel distributor	BA07.52-P-1001-01C
5	Removing fuel rail with injection valves	Model 163	AR07.03-P-1451A
6	Disconnect vacuum lines from intake pipe (19)	i Observe intake manifold connection diagram, see: ↓	
	Disconnect every vacuum hose from the intake EXCEPT the	Engine 112	AR09.20-P-1310-01A
	hose to the brake booster. Remove that hose from the booster then remove the manifold with that hose attached.	Engine 112 with code 494a	AR09.20-P-1310-01AA

		Engine 113	AR09.20-P-1310-01AU
		Engine 113 with code 494a	AR09.20-P-1310-01AC
7	Disconnect electrical connectors		
8	Unscrew acorn nut from pipe (89/2) to exhaust gas recirculation valve (89)	 Counterhold connection fitting when unscrewing.	
	Remove EGR pipe after removal of intake. Check it for clogging and then reinstall prior to replacing the intake manifold.		BA14.20-P-1002-01B
9	Unscrew bolts(19/1)		BA09.20-P-1001-01D
10	Remove combination valves(6)	 Installation: Replace gaskets.	
11	Dismount intake manifold (19)	 Plug intake ducts.	
			BA09.20-P-1001-01D
12	Replace right and left gaskets (19/3)	 Installation: Fix gaskets by means of studs.	
13	Install in the reverse order		

 Crankcase ventilation, cylinder head cover

Number	Designation		Engines 112.942/970	Engines 113.942/965/981
BA01.20-P-1001-01E	Bolt of cylinder head cover		8 or 6 ft. lbs.	10 or 8 ft. lbs.

 Fuel rail

Number	Designation		Engine 112
BA07.52-P-1001-01A	Fuel feed line to fuel rail	Nm	38

Hm Fuel rail

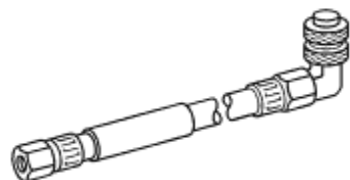
Number	Designation	Engines 113.942/965/981
BA07.52-P-1001-01C	Fuel feed line to fuel distributor	Nm 38

Hm Intake manifold

Number	Designation	Engines 112.942/970	Engines 113.942/965/981
BA09.20-P-1001-01D	Bolt of intake manifold on cylinder head	M8 Nm 20 or 15 ft. lbs.	20

Hm Exhaust gas recirculation

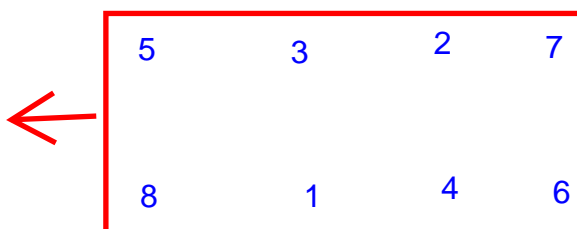
Number	Designation	Engine 112.942	Engine 112.970	Engines 113.942/965/981
BA14.20-P-1002-01B	Acorn nut of exhaust gas recirculation pipe to exhaust gas recirculation valve	Nm 40	40	40



119 589 04 63 00

Pressure hose

Tightening Sequence



Run bolts down finger tight using socket and extension then use torque wrench in the above sequence.