

14-415 Removal and installation of intake manifold

Special tool

Clamp

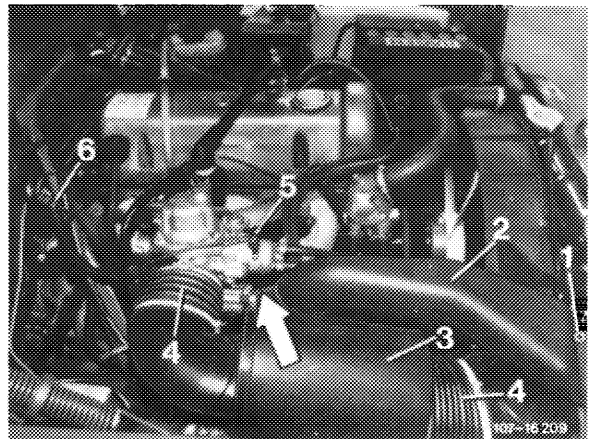


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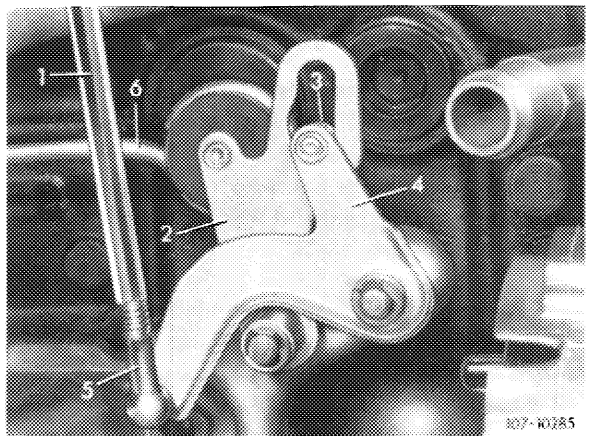
A. Model 115

Removal

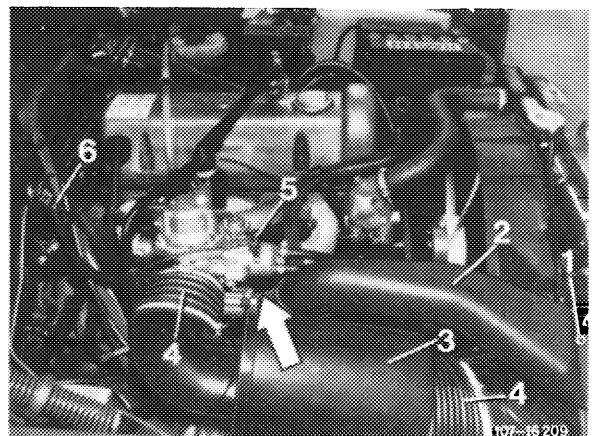
- 1 Disconnect grounding line on battery.
- 2 Remove air intake pipe (2), as well as intermediate damper (3) with rubber sleeve (4) (09-410).
- 3 Remove warm air hose. Pull off vacuum line on EGR valve.



- 4 Remove regulating rod (1).
- 5 Evacuate excess pressure in cooling system by loosening radiator cap for a short moment.
- 6 Remove coolant hoses for choke cover and carburetor heater on carburetor and close with pertinent mandrel or clamp.
- 7 Remove fuel lines (arrow) on carburetor.
- 8 Pull 2-pole cable plug (5) from choke cover.



- 9 Separate coupling (6) of cable for idle speed shutoff valve and expose cable.
- 10 Pull engine breather line from valve cover and put aside.
- 11 Pull vacuum lines from carburetor flange.
- 12 Unscrew vacuum line for brake unit on intake manifold.



- 13 Unscrew fastening nuts for flange connection of exhaust system on exhaust manifold.
- 14 Unscrew lateral support of exhaust system on gearbox mount while slightly loosening nuts of clamp.
- 15 Unscrew support for starter and unscrew exhaust manifold.
- 16 Unscrew fastening nuts for intake pipe and exhaust manifold on cylinder head, remove washers and scoop for preheating intake air.
- 17 Remove intake pipe with carburetor and exhaust manifold.
- 18 Unscrew intake manifold with carburetor from exhaust manifold and remove.
- 19 Remove carburetor.

Installation

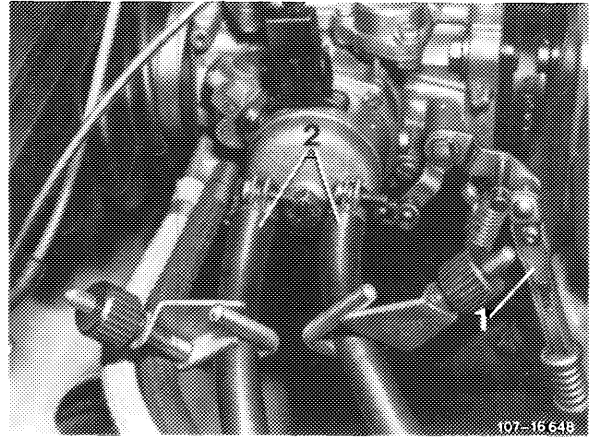
Note: Clean sealing surfaces prior to installation. Renew gaskets and self-locking hex. nuts.

- 20 Attach carburetor to intake manifold. Assemble intake manifold and exhaust manifold, slightly tighten fastening nuts.
- 21 Position intake manifold with exhaust manifold on cylinder head, tighten fastening nuts. Do not forget installation of scoop for preheating intake air.
- 22 Tighten fastening nuts for intake manifold on exhaust manifold.
- 23 For further installation of item 1–15 proceed vice versa.
- 24 Add coolant, check cooling system for leaks.
- 25 Check intake system for leaks.
- 26 Adjust idle speed (07.2–100).

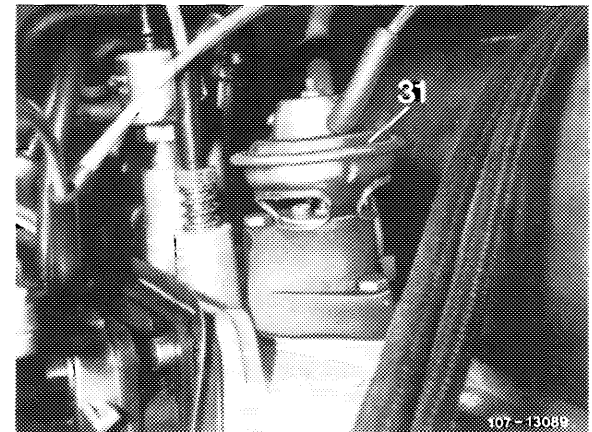
B. Model 123

Removal

- 1 Disconnect grounding line on battery.
- 2 Remove air cleaner (09-410).
- 3 Release excessive pressure in cooling system by loosening radiator cap for a short moment.



- 4 Pinch coolant hoses (2) for heating choke and remove.



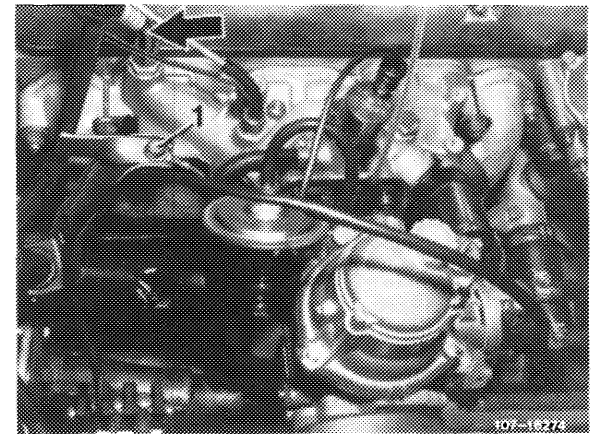
- 5 Remove fuel hoses on carburetor.

- 6 Pull vacuum line from EGR valve.

- 7 Pull vacuum line from pulldown cover.

- 8 Pull vacuum line for ignition timing and for air valve control from carburetor flange.

- 9 Pull off vacuum line on idle speed adjusting screw, pull off vacuum line for automatic transmission.



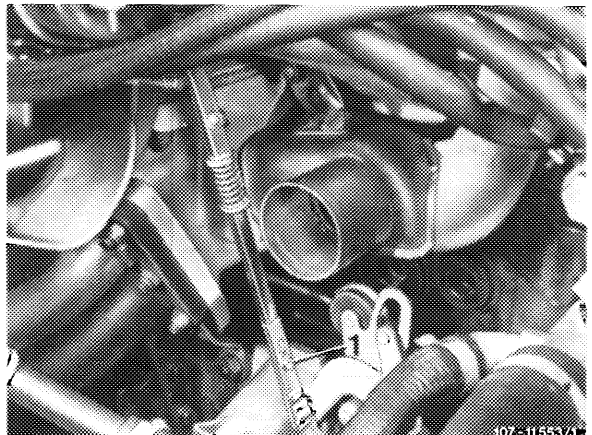
- 10 Pull off 2-pole coupling on choke cover.

- 11 Pull off engine breather line on valve cover and put aside.

- 12 Unscrew vacuum line (arrow) for brake force booster.

- 13 Remove hose for preheating.

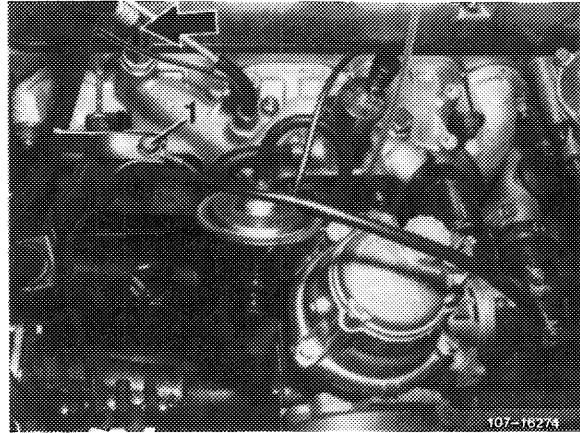
- 14 Remove regulating rod (1).



15 Unscrew screw (1) for holder of starter cable assembly and put holder aside, remove grounding cable.

Note: On vehicles with automatic transmission, push oil filter pipe slightly sideways.

16 Unscrew fastening nuts for flange connection of exhaust system on exhaust manifold.



17 Unscrew lateral support of exhaust system on gearbox mount, while slightly loosening nuts of clamp.

18 Remove exhaust pipe on manifold and put aside.

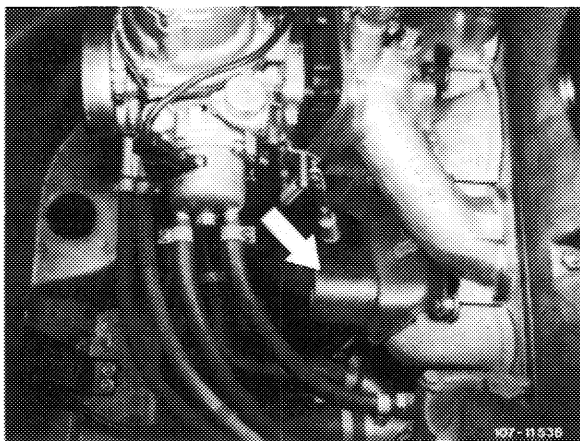
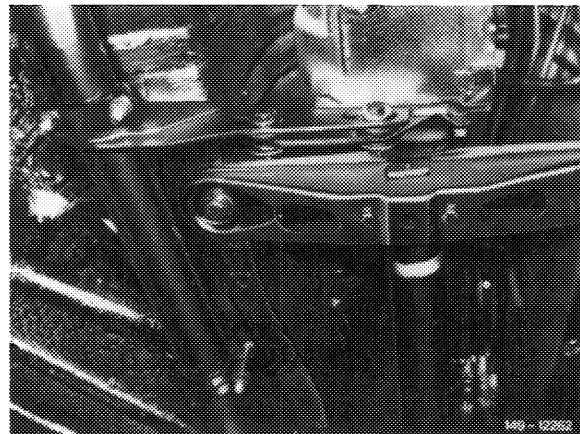
19 Unscrew support for starter-exhaust manifold (arrow).

20 Unscrew fastening nuts for intake manifold and exhaust manifold on cylinder head, remove washers and scoop (2) for preheating intake air.

21 Remove intake manifold with carburetor and exhaust manifold.

22 Unscrew intake manifold with carburetor from exhaust manifold and remove.

23 Remove carburetor.



Installation

Note: Clean sealing surfaces prior to installation. Renew gaskets and self-locking hex. nuts.

24 Attach carburetor to intake manifold.

25 Assemble intake manifold and exhaust manifold, slightly tighten fastening nuts.

26 Position intake manifold with exhaust manifold at cylinder head, tighten fastening nuts. Do not forget installation of scoop for preheating intake air.

27 Tighten fastening nuts for intake manifold on exhaust manifold.

28 For further installation of item 1–18 proceed vice versa.

29 Fill up coolant, check cooling system for leaks.

30 Check intake system for leaks.

31 Adjust idle speed (07.2–100).