

14–200 Removal and installation of catalyst

Federal and California version model year 1976

Special tool

Saltus ratchet 13 mm



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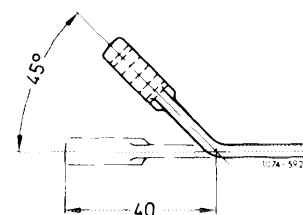
Conventional tool

Starter wrench 10 x 12 mm

e.g. made by Stahlwille

Self-made tool

Box wrench 12 x 13 mm, offset



Removal

1 Unscrew exhaust system from below on catalyst flange. Use offset box wrench.

2 Completely take down exhaust system.

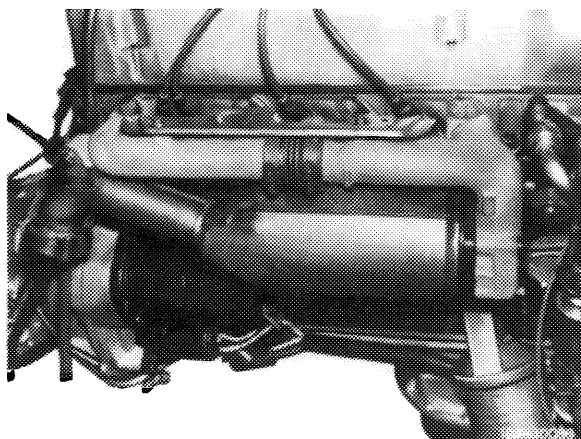
Remove catalyst at the right

3 On model 116, remove battery and battery box.

On model 107, remove water tank of windshield washer, unscrew coolant expansion tank and take from holder. Put down tank as far as possible to the front.

4 Pull off spark plug connector and unscrew shielding plate.

5 Unscrew catalyst holder.



6 Unscrew fastening screws on flange of catalyst by means of Saltus ratchet.

7 Unscrew upper screws on exhaust manifold.

8 Loosen nuts below on exhaust manifold with starter wrench; completely unscrew the three front nuts.

Note: The fastening bores of exhaust manifold are slotted at bottom, for this reason the lower nuts (except the three at the front) need not be completely unscrewed from removal of exhaust manifold.

9 Pull out exhaust manifold in upward direction, disassemble exhaust manifold at bellows, if required.

10 Remove catalyst.

Install catalyst at the right

11 Insert new catalyst.

12 Renew exhaust manifold gaskets. Install flange gaskets with smooth surface facing exhaust manifold.

13 Insert exhaust manifold.

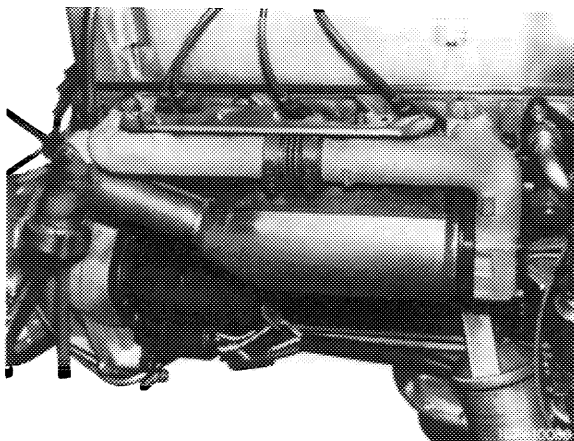
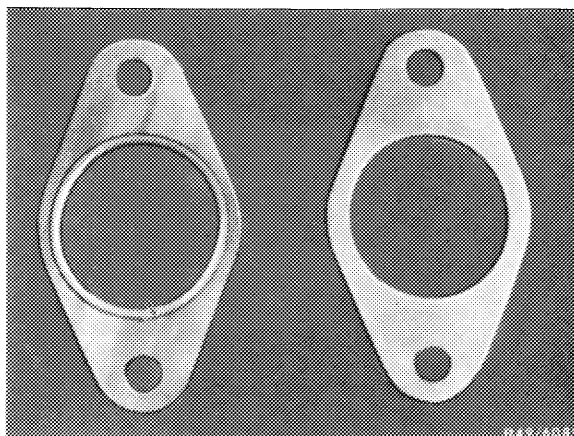
Attention!

Insert **center inside screw** for attaching catalyst to exhaust manifold together with a washer **prior to inserting manifold**. Installation later on is not possible.

14 Position screws with washers at the top, new nuts with washers at the bottom. Tighten exhaust manifold.

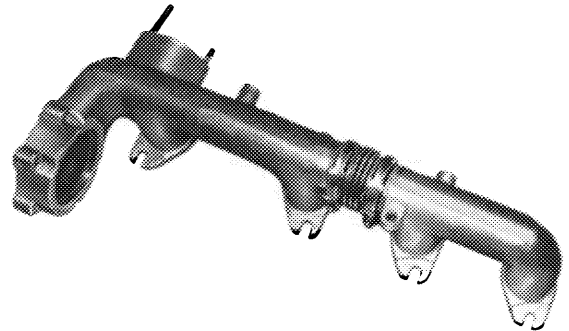
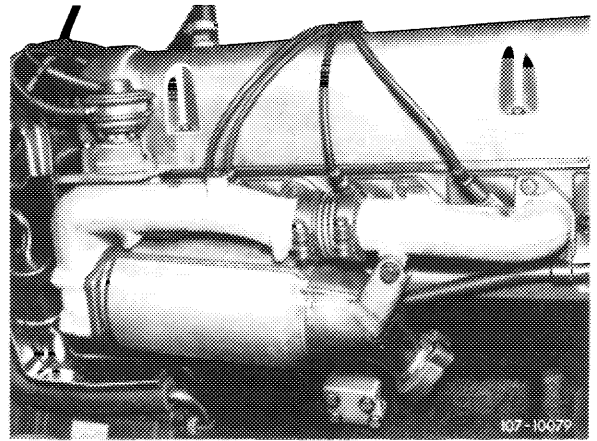
15 Position catalyst with new gasket and new screws. Position catalyst holder. Tighten all screws.

16 Mount spark plug connector; install shielding plates. On model 116, install battery box and battery. On model 107, install coolant expansion tank and water tank on windshield washer.



Removing catalyst at the left

- 17 Pull off spark plug connector and unscrew shielding plate.
- 18 Remove EGR valve.
- 19 Unscrew catalyst holder.
- 20 Unscrew fastening screws on flange of catalyst by means of Saltus ratchet. Put catalyst aside in downward direction. On model 107, remove engine shock absorber, if required.
- 21 Unscrew upper screws on exhaust manifold.
- 22 Loosen nuts at bottom of exhaust manifold with starter wrench, completely unscrew the three front nuts.
- 23 Loosen bellows and remove front exhaust manifold.
- 24 Remove catalyst.



Installing catalyst at the left

- 25 Insert new catalyst.
- 26 Renew exhaust manifold gaskets. Install flange gaskets with smooth surface facing exhaust manifold.
- 27 Install exhaust manifold. Position screws with washers at the top, new nuts with washers at the bottom and tighten. Mount bellows.
- 28 Position catalyst with new gasket and new screws. Position catalyst holder. Tighten all screws.
- 29 Install EGR valve with new gasket. Connect line with colors red/purple at top and brown/purple at bottom on valve.
- 30 Mount shielding plates and spark plug connectors.
- 31 Install exhaust system.
- 32 Check for leaks.

