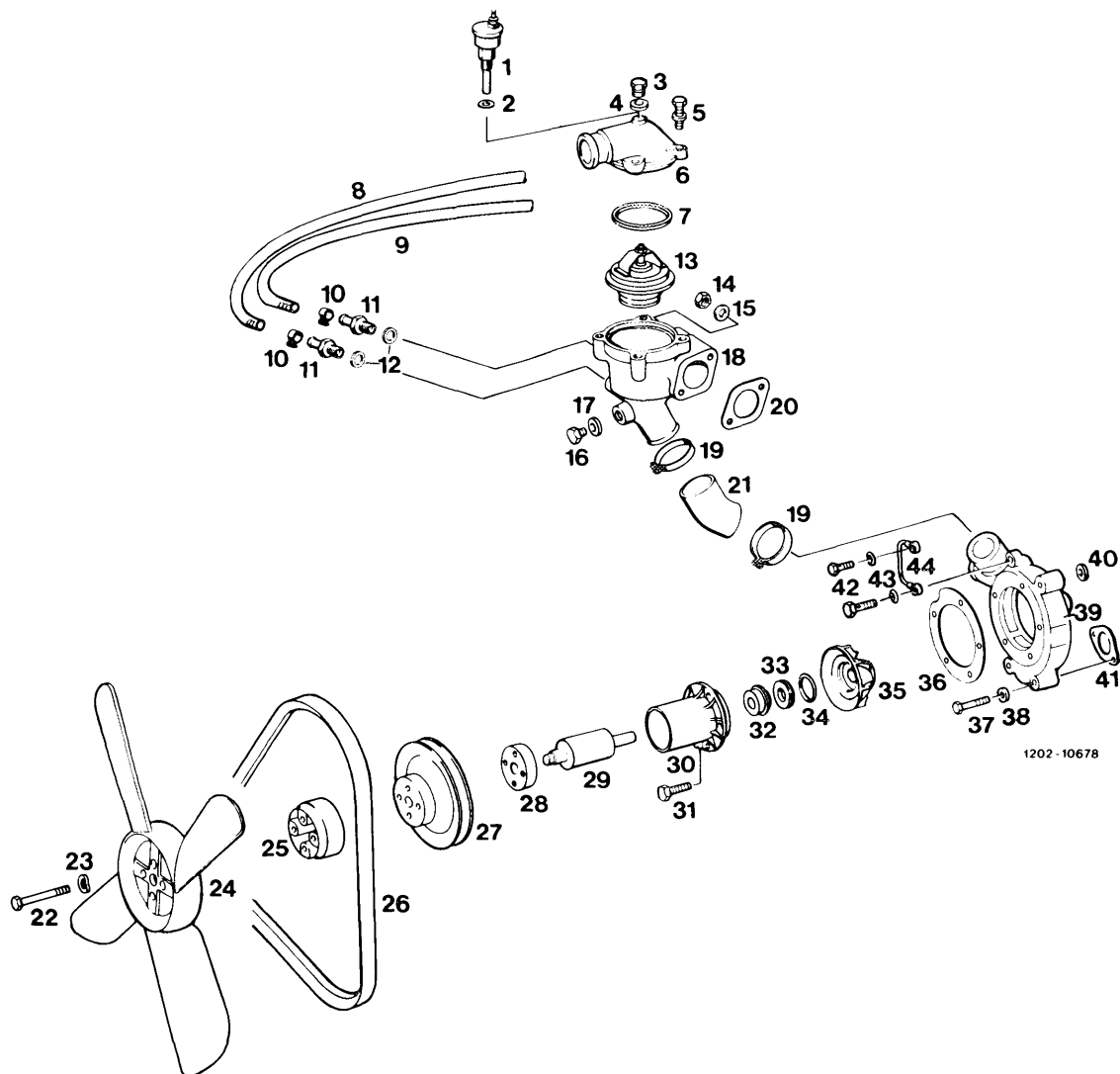


Layout fan, coolant pump, coolant thermostat housing



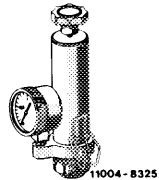
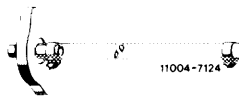
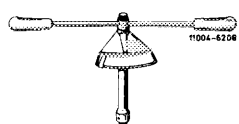
- | | | |
|---|--|--|
| 1 | Temperature switch | Switching via coolant temperature additional fan on vehicles with air conditioning Switching-on temperature $100 \pm 2 \text{ }^\circ\text{C}$ Switching-off temperature $95 \pm \frac{3}{2} \text{ }^\circ\text{C}$ |
| 2 | Sealing ring | A 14 x 18 – Cu |
| 3 | Locking screw | M 14 x 1.5, closing on vehicles without air conditioning the threaded bore for temperature switch $100 \text{ }^\circ\text{C}$ in cover of coolant thermostat housing |
| 4 | Sealing ring | A 14 x 18 – AL |
| 5 | Combination countersunk screw | M 6 x 22, 4 each, tightening torque 10 Nm |
| 6 | Cover (coolant thermostat housing) | |
| 7 | Sealing ring | Check whether cracked, squeezed or hardened. Replace, if required. |
| 8 | Hose heater water return flow (starter cover heater Stromberg carburetor) | 7 x 14 x 280 mm |
| 9 | Hose heater water initial flow (starter cover heater Stromberg carburetor) | 7 x 14 x 215 mm |

| | | |
|----|---|--|
| 10 | Hose clip | L 14–16 |
| 11 | Threaded pin | |
| 12 | Sealing ring | A 12 x 17 |
| 13 | Coolant thermostat | Up to middle of December 1975 with start of regulation at 79 ± 2 °C, end of regulation (fully opened) at max. 94 °C. Part No. 002 203 75 75, optionally 002 203 78 75. Starting middle of December 1975, with start of regulation at 87 ± 2 °C, end of regulation (fully opened) at max. 102 °C. Part No. 002 203 76 75, optionally 002 203 81 75. Both versions are exchangeable for each other. When installing make sure that ball in vent valve is moving freely |
| 14 | Hexagon nut | M 8, 2 each, tightening torque 20 Nm. Attachment coolant thermostat housing on cylinder head |
| 15 | Spring washer | B 8, 2 each |
| 16 | Locking screw | M 16 x 1.5 |
| 17 | Sealing ring | A 16 x 20 – AL |
| 18 | Coolant thermostat housing | |
| 19 | Hose clip | L 36–46 |
| 20 | Sealing washer | Replace when removing and installing coolant thermostat housing |
| 21 | Coolant hose (bypass line) | |
| 22 | Hexagon screw | M 8 x 65, 4 each, tightening torque 23 Nm. Fan, hub ring and V-belt pulley on flange of coolant pump shaft |
| 23 | Spring washer | B 8, 2 each |
| 24 | Fan | 5 blades, 430 mm dia., plastic material |
| 25 | Hub ring | |
| 26 | Narrow V-belt | Dimension and assembly instructions (13–335 and 13–340) |
| 27 | V-belt pulley | V-belt running surfaces free from burr, rust and dirt |
| 28 | Flange | Observe installation instructions (20–220) |
| 29 | Coolant pump shaft with compact bearing | Observe installation instructions (20–220) |
| 30 | Bearing housing | |
| 31 | Hexagon screw | M 6 x 18, 5 each, tightening torque 10 Nm. Coolant pump on coolant pump housing |
| 32 | Sliding ring sealing | Observe installation instructions (20–220, 20–225) |
| 33 | Counter-ring | Observe installation instructions (20–220, 20–225) |
| 34 | Sealing ring | Observe installation instructions (20–220, 20–225) |
| 35 | Fan blade | Observe installation instructions (20–220, 20–225) |
| 36 | Sealing washer | Replace when removing and installing coolant pump |
| 37 | Hexagon screw | M 8 x 38, 5 each, tightening torque 32 Nm. Coolant pump housing on cylinder crankcase |
| 38 | Washer | 8.4 x 20 x 3, 3 each (engines 115.923/926/938/939) 5 each (engines 115.951/954) |
| 39 | Coolant pump housing | |
| 40 | Washer | Engines 115.923/926/938/939 |
| 41 | Sealing washer | Replace when removing and installing coolant pump |
| 42 | Hollow screw | A 2/3, 2 each |
| 43 | Sealing ring | A 8 x 11.5 – AL, 4 each |
| 44 | Vent line | Coolant pump housing to cylinder head |

| Tightening torques | | Nm |
|--------------------|--|----------------------------------|
| Drain plug | radiator | model 115 8 |
| | | model 123 1,5–2 ¹⁾ |
| | cylinder crankcase | 30 |
| Fastening screws | coolant pump to coolant pump housing | 10 |
| | fan, hub ring and pulley to coolant pump | 23 |

1) This torque can be attained by means of a disc or a coin.

Special tools

| | | |
|--|---|------------------|
| Tester for cooling system and radiator cap |  | 001 589 48 21 00 |
| Radiator cap with hose for leak test |  | 605 589 00 25 00 |
| Torque wrench 1/4" square, 4–16 Nm |  | 000 589 67 21 00 |

Conventional tool

| | |
|--|---|
| Hexagon socket 7 mm on flexible shaft for hose clips | e.g. made by Hazet, D–5630 Remscheid order No. 426–7 |
|--|---|

Note

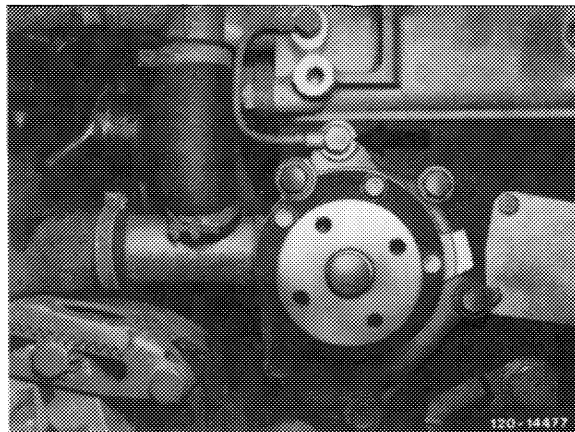
In order to improve the noise behaviour, on vehicles of the standard version with **manual transmission** the ratio for fan and coolant pump drive was changed to $i = 1 : 0.81$ (formerly = $1 : 0.9$). The diameter of coolant pump V-belt pulley thereby was increased to 153 mm (formerly 138 mm), the V-belt dimension was changed to 9.5 x 960 mm (formerly 9.5 x 940 mm).

Start of series production: April 1978

| Model | Engine | Engine end No. | Chassis end No. |
|---------|---------|----------------|-----------------|
| 123.020 | 115.938 | 053 136 | 074 450 |
| | 115.939 | 007 564 | |
| 123.023 | 115.954 | 063 339 | 091 060 |
| 123.043 | | 005 200 | |

Removal

- 1 Drain coolant (20–010).
- 2 Remove fan.
- 3 Remove V-belt.
- 4 Remove pulley.
- 5 On vehicles with air conditioning, unscrew refrigerant compressor with carrier and connected lines and put aside (Repair instructions air conditioning system model 114, 115 or air conditioning system I model 123, 83–522).
- 6 Screw-out fastening screws on coolant pump and remove coolant pump.



Installation

- 7 Install coolant pump with new seal and tighten fastening screws to 10 Nm.
- 8 For further installation proceed vice versa to removal. In this connection, tighten fastening screws for V-belt pulley, hub ring and fan to 25 Nm.
- 9 Fill-in coolant (20–010) and check cooling system by pressure-testing with tester (1–1.3 bar gauge pressure) for leaks.