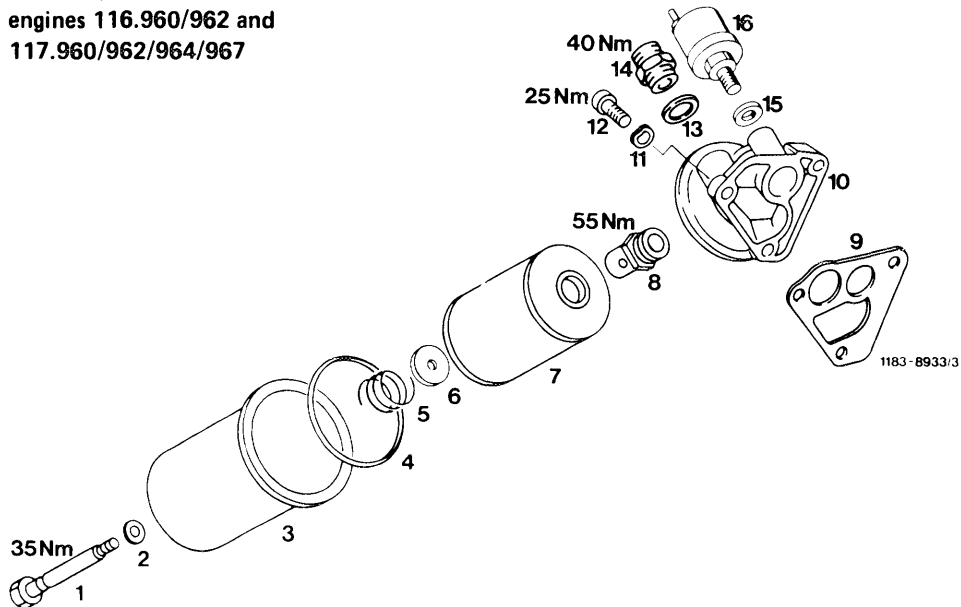


A. Model 107

Oil filter,  
engines 116.960/962 and  
117.960/962/964/967



- |    |                                   |                                          |
|----|-----------------------------------|------------------------------------------|
| 1  | Center bolt                       |                                          |
| 2  | Sealing ring                      | Check, renew if required                 |
| 3  | Oil filter housing                |                                          |
| 4  | O-ring                            | Renew                                    |
| 5  | Compression spring                | Observe installation position            |
| 6  | Spring retainer                   | For oil filter element                   |
| 7  | Oil filter element                | Ensure use of correct oil filter element |
| 8  | Screw fitting                     |                                          |
| 9  | Gasket                            | Renew                                    |
| 10 | Intermediate flange               |                                          |
| 11 | Spring washer                     | 3 required                               |
| 12 | Internal socket head screw        | 3 required                               |
| 13 | Sealing ring <sup>1)</sup>        |                                          |
| 14 | Screw fitting <sup>1)</sup>       |                                          |
| 15 | Sealing ring                      |                                          |
| 16 | Electric oil pressure transmitter |                                          |

<sup>1)</sup> Not required for engines without air oil cooler: 116.960 (AUS) (J) (S) (USA) as from 1981, 116.962/964 and 117.962/964/967.

**Note**

New oil filters are supplied with initial operation filter elements which, on new engines, should be used up to the inspection at 1000–1500 km.

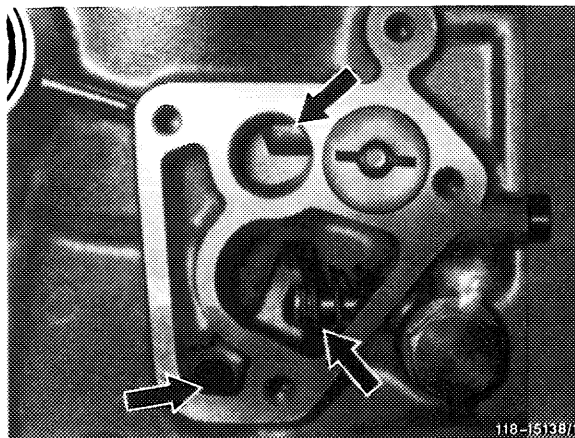
These filter elements have a limited service life and must be exchanged for filter elements part No. 000 180 05 09 if new oil filters are fitted to run-in engines.

### Removal (model 107)

---

- 1 Remove oil filter housing.
- 2 On engines 116.960 standard version and 117.960, disconnect oil cooler line from intermediate flange.
- 3 Pull single-plug connection of electric line to the oil pressure indication in the instrument cluster from the oil pressure transmitter.
- 4 Unscrew fastening screws for intermediate flange and remove intermediate flange.
- 5 Remove remains of gasket from flange surface on crankcase.

First close the openings (arrows) in such a way that no remains of gasket can enter the oil ducts in the crankcase.



### Installation

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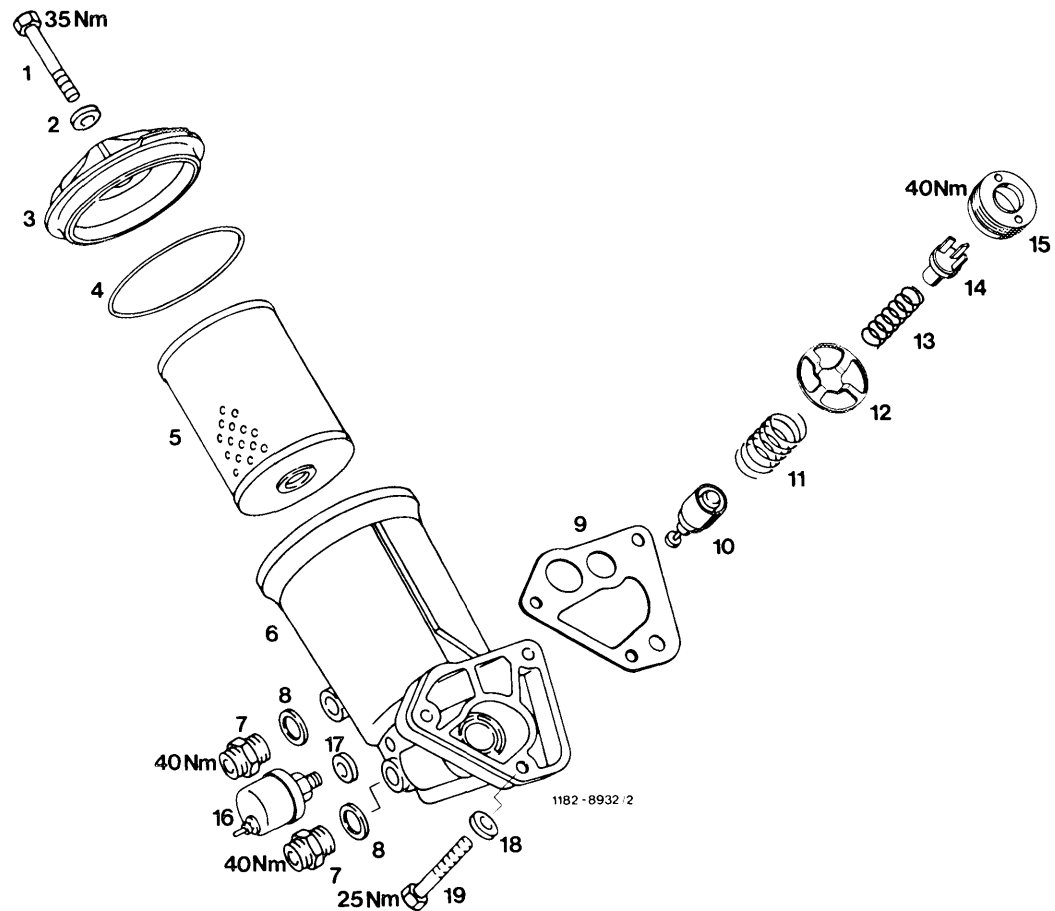
- 6 Position intermediate flange with new gasket and tighten fastening screws for intermediate flange to 25 Nm.
- 7 On engines 116.960 standard version and 117.960, connect oil cooler line to intermediate flange and tighten coupling nut to 25 Nm.
- 8 Plug single-plug connection of electric line to oil pressure indication in the instrument cluster to the oil pressure transmitter.
- 9 If required, renew sealing ring of center bolt and oil filter element. Position oil filter housing with new O-ring and tighten center bolt to 40 Nm.

**Note:** If compression spring with spring retainer has been removed, reinstall part in such a way that the spring retainer faces towards the oil filter element.

- 10 Run engine and check for leaks.
- 11 Check oil level, correct if necessary.

## B. Model 126

Oil filter, engines 116.961, 116.963, 116.965, 117.961 and 117.963, 117.965, 117.968



- |                                                           |                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1 Center bolt . . . . .                                   | Tighten to 30 Nm                                                                                            |
| 2 Sealing ring . . . . .                                  | Check and replace if required                                                                               |
| 3 Oil filter cover                                        |                                                                                                             |
| 4 O-ring . . . . .                                        | Renew                                                                                                       |
| 5 Oil filter element . . . . .                            | Ensure use of correct element                                                                               |
| 6 Oil filter housing . . . . .                            | Clean                                                                                                       |
| 7 Screw fitting <sup>1</sup> ) . . . . .                  | Tighten to 40 Nm                                                                                            |
| 8 Sealing ring <sup>1</sup> ) . . . . .                   | Renew                                                                                                       |
| 9 Gasket . . . . .                                        | Renew                                                                                                       |
| 10 Thermostat with control valve <sup>1</sup> ) . . . . . | Beginning of control $110 \pm 4^\circ\text{C}$ , end of control<br>(fully opened) $125 \pm 4^\circ\text{C}$ |
| 11 Compression spring <sup>1</sup> )                      |                                                                                                             |
| 12 Spring retainer <sup>1</sup> )                         |                                                                                                             |
| 13 Compression spring                                     |                                                                                                             |
| 14 Valve cone return flow shut-off valve                  |                                                                                                             |
| 15 Valve seat ring return flow shut-off valve . . . . .   | Tighten to 40 Nm                                                                                            |
| 16 Electric oil pressure transmitter                      |                                                                                                             |
| 17 Sealing ring . . . . .                                 | Renew                                                                                                       |
| 18 Spring washer . . . . .                                | 3 required                                                                                                  |
| 19 Hex. head bolt . . . . .                               | 3 required, tighten to 25 Nm                                                                                |

<sup>1</sup>) Not required on engines without air oil cooler except for subsequent installation of an oil cooler:  
116.961 (AUS) (J) (S) (USA) as of 1981, 116.963, 117.963/965/968

## Note

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New oil filters are delivered with initial operation filter elements which are used on new engines up to inspection at 1000–1500 km.

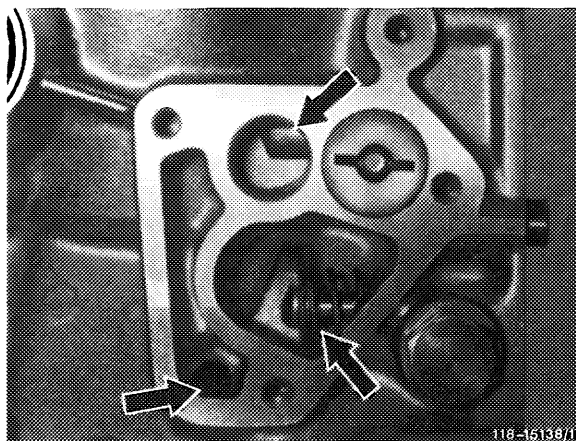
These filter elements have a limited service life and should be exchanged for filter elements part No. 000 180 06 09 if new oil filters are attached to run-in engines.

## Removal (model 126)

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- 1 Remove oil filter cover.
- 2 On engines 116.961 standard version and 117.961, unscrew both oil cooler lines on oil filter housing and remove pipe elbow between oil filter and damper.
- 3 Pull single-plug connection of electric line for oil pressure indication in instrument cluster from oil pressure transmitter.
- 4 Unscrew fastening screws for oil filter and remove oil filter.
- 5 Remove remains of gasket from flange surface on crankcase.

First close openings (arrows) so that no remains of gasket can enter the oil ducts in the crankcase.



## Installation

---

- 6 Position the oil filter with new gasket and tighten fastening screws to 25 Nm.
- 7 Plug single-plug connection of electric line for oil pressure indication in instrument cluster onto oil pressure transmitter.

- 8 On engines 116.961 standard version and 117.961/968 and special protection vehicles, connect oil cooler lines to oil filter housing and tighten coupling nuts to 25 Nm. Install pipe elbow between oil filter and damper.
- 9 If required, replace sealing ring of center bolt and oil filter element. Mount oil filter cover with new O-ring and tighten center bolt to 30 Nm.
- 10 Run engine and check for leaks.
- 11 Check oil level and correct if required.