

Engine oil: draining or extracting, changing oil filter

WARNING

On some engine versions it is NOT permissible to draw off the engine oil with an oil extractor. Refer to maintenance table.

Note

Oil should always be changed when engine is warm.

Special tools and workshop equipment required

- t Hazet strap wrench -2171-1-
- t or
- t Oil filter tool -3417-
- t Oil extractor -V.A.G 1782-
- t Oil drain adapter -T 40057- (2.0 TFSI)

Note

Observe disposal regulations.

4-cyl. petrol engines → Chapter

**6-cyl. petrol engines (BBJ and ASN)
→ Chapter**

4-cyl. FSI/TFSI engines → Chapter

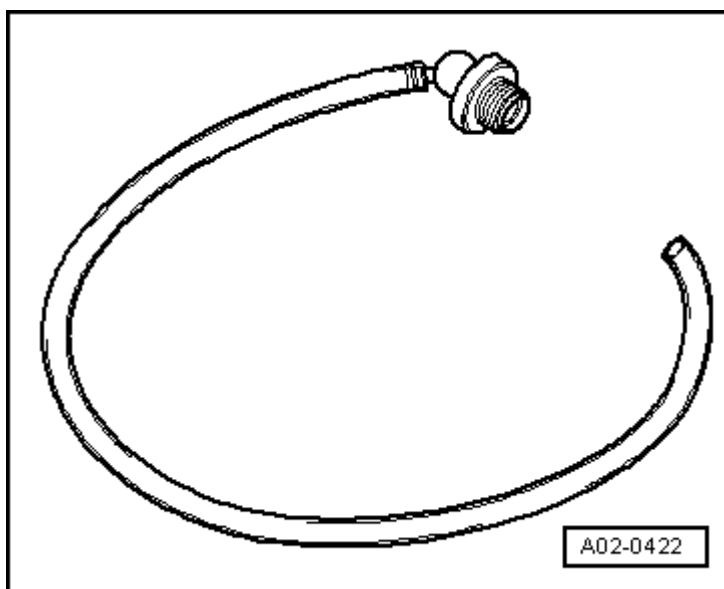
4-cyl. TDI engines (unit injector) → Chapter

6-cyl. 3.2 ltr. FSI petrol engines → Chapter

6-cyl. TDI engines → Chapter

8-cyl. 4.2 ltr. MPI petrol engines → Chapter

**8-cyl. 4.2 ltr. FSI petrol engines (RS 4)
→ Chapter**

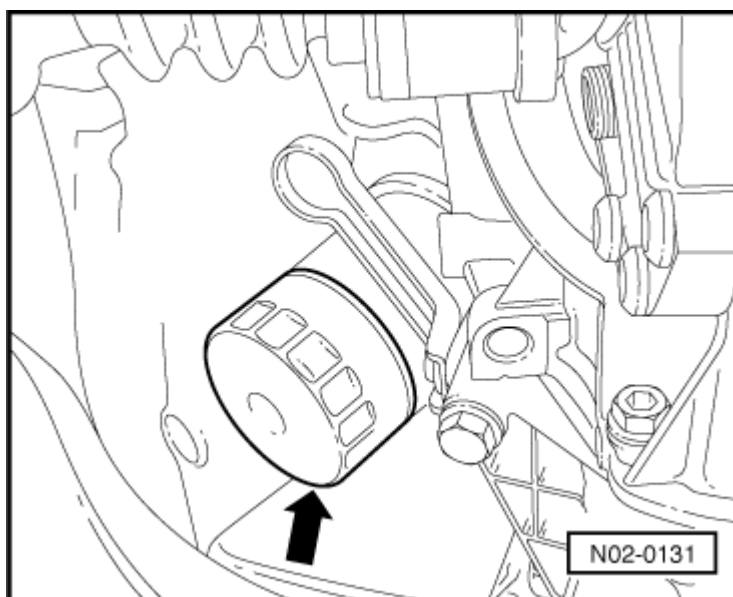


4-cyl. petrol engines

- Loosen oil filter -arrow- with oil filter tool -3417- or with Hazet strap wrench -2171-1-.
- Remove oil filter.

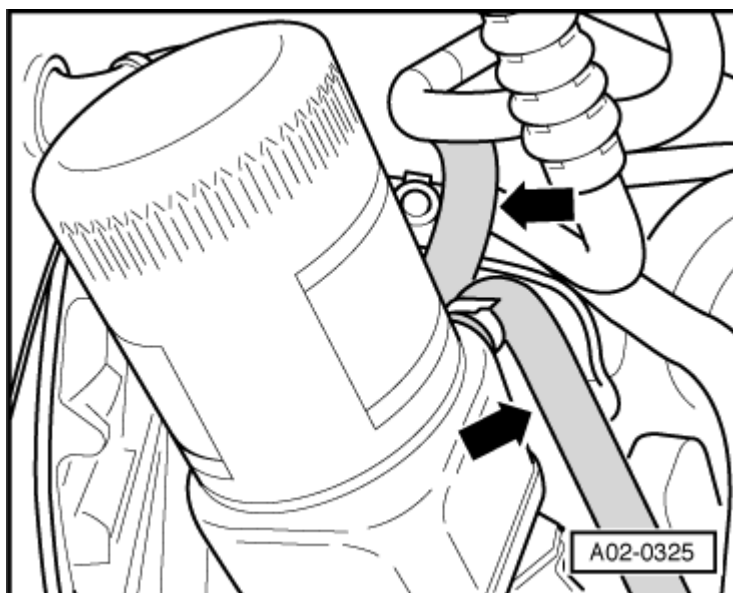
Note

- t Observe disposal regulations.
- t Note the fitting instructions on the oil filter.
- Open oil drain plug / draw off engine oil.
- Clean sealing surface for oil filter at engine.
- Lightly lubricate rubber seal.



- Screw in new filter and tighten.

⚠ WARNING
After renewing oil filter cartridge, check clearance of hoses from oil cooler to adjacent components -arrows-; if necessary correct oil cooler position.



- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications → Chapter.

| Tightening torques | Nm |
|---------------------------------------|----|
| Oil drain plug: 4-cyl. petrol engines | 30 |

i Note

- t *Engines with turbocharger:*
- t *When the engine oil and oil filter have been changed, it is important to note the following after starting the engine for the first time:*
- t *The engine must only run at idling speed as long as the oil pressure warning lamp in dash panel is on. Do not rev up! If the engine is revved up the turbocharger can be damaged or fail completely.*
- t *The full oil pressure is not attained until the warning lamp has gone out, only then can the engine be revved up.*
- t *Keep components clean.*

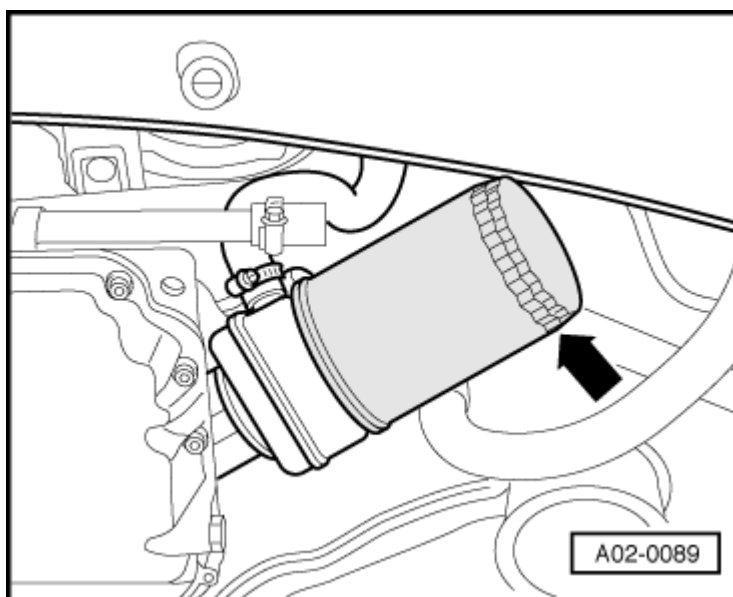
6-cyl. petrol engines (BBJ and ASN)

- Loosen oil filter -arrow- using Hazet strap wrench -2171-1-.
- Remove oil filter.

Note

- t Observe disposal regulations.
- t Note the fitting instructions on the oil filter.

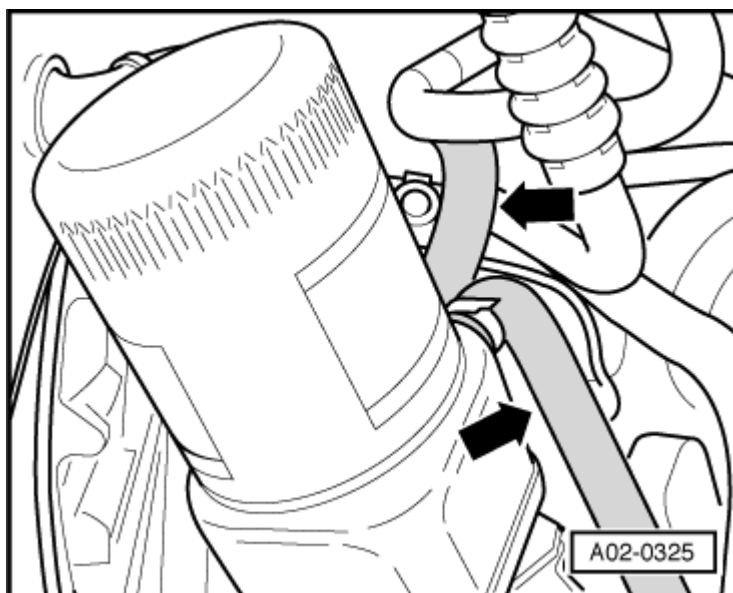
- Open oil drain plug / draw off engine oil.
- Clean sealing surface for oil filter at engine.
- Lightly lubricate rubber seal.



- Screw in new filter and tighten.

WARNING
 After renewing oil filter cartridge, check clearance of hoses from oil cooler to adjacent components -arrows-; if necessary correct oil cooler position.

- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications → Chapter.



| Tightening torques | Nm |
|---------------------------------------|----|
| Oil drain plug: 6-cyl. petrol engines | 30 |

Note

- t Engines with turbocharger:
- t When the engine oil and oil filter have been changed, it is important to note the following after starting the engine for the first time:
- t The engine must only run at idling speed as long as the oil pressure warning lamp in dash panel is on. Do not rev up! If the engine is revved up the turbocharger can be damaged or fail completely.
- t The full oil pressure is not attained until the warning lamp has gone out, only then can the engine be revved up.
- t Keep components clean.

4-cyl. FSI/TFSI engines

- Remove noise insulation → Chapter.

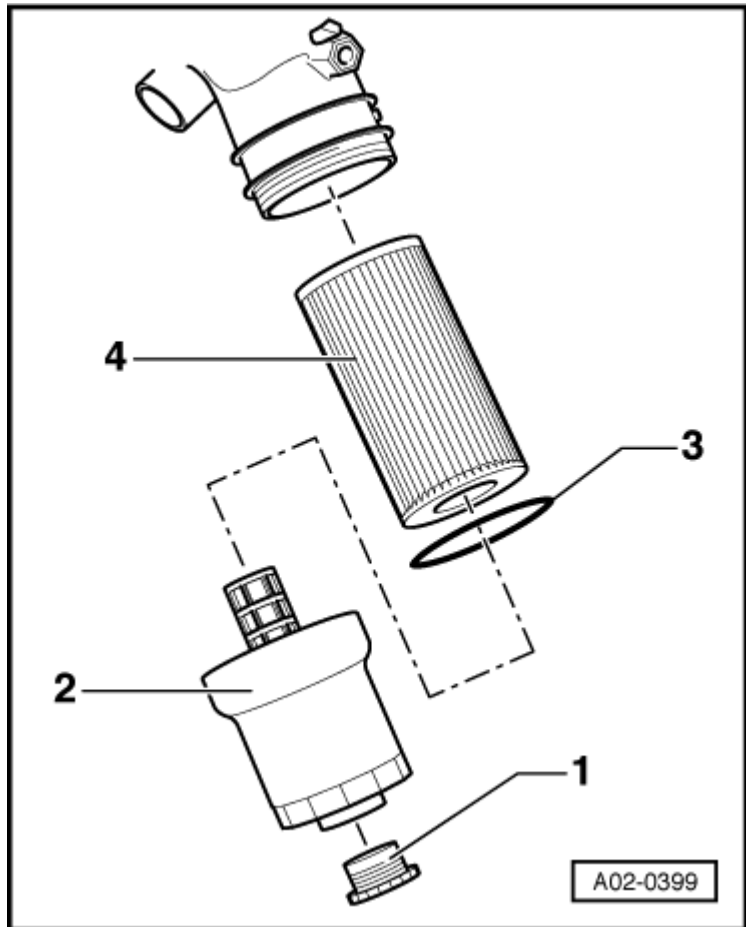
Note

Before removing oil filter you must drain engine oil from oil filter so that it does not spill onto engine or components.

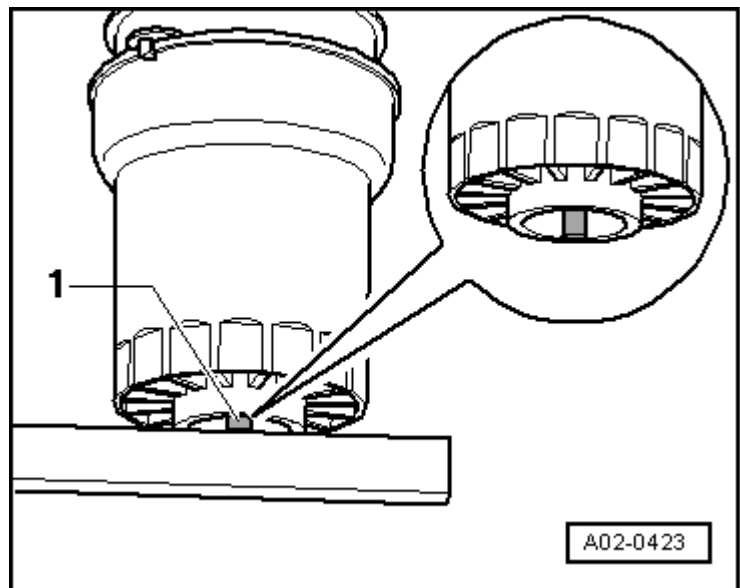
- Unscrew protective cap on base valve -1-.
- Detach hose with ball head from oil drain adapter -T 40057- and screw stud into base valve on oil filter housing -2- until you feel a slight resistance.
- Now fit hose with ball head onto stud and screw oil drain adapter -T 40057- on further as far as it will go; you should hear the drain valve click.
- Let oil filter drain.

WARNING
Hot engine oil

- Open oil drain plug / draw off engine oil.



- Unscrew the oil drain adapter -T 40057-.
- Now check that base valve -1- is flush and level as shown in illustration (A02-0423).
- Now screw on the protective cap.
- Unscrew oil filter housing -2- using oil filter tool -3417- or 36 mm socket, e.g. socket, 36 mm -T10125-, and remove oil filter.

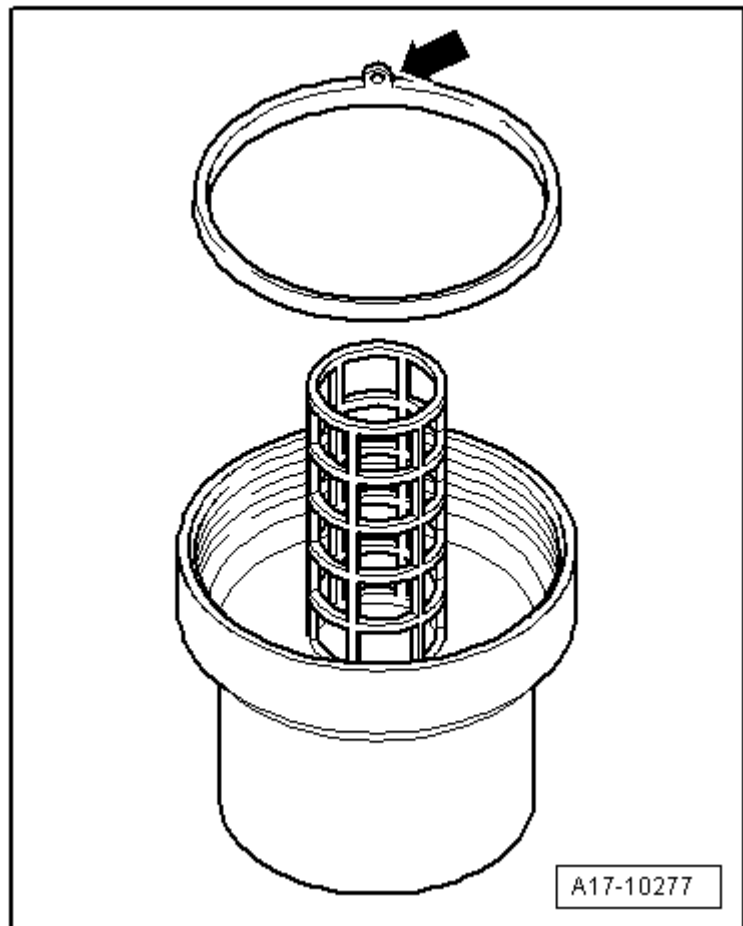


- Renew filter element -4- and seal -3-.
- Note position of service tab on seal (arrow).

i Note

Observe disposal regulations.

- Clean sealing surface on oil filter housing.
- Lightly lubricate rubber seal.
- Flat side of seal must face outwards.
- Screw in filter housing and tighten.
- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications
→ Chapter.



| Tightening torque | Nm |
|-------------------|------|
| Oil filter | 25+5 |
| Oil drain plug | 30 |

i Note

- t *Engines with turbocharger:*
- t *When the engine oil and oil filter have been changed, it is important to note the following after starting the engine for the first time:*
- t *The engine must only run at idling speed as long as the oil pressure warning lamp in dash panel is on. Do not rev up! If the engine is revved up the turbocharger can be damaged or fail completely.*
- t *The full oil pressure is not attained until the warning lamp has gone out, only then can the engine be revved up.*
- t *Keep components clean.*

4-cyl. TDI engines (unit injector)

- Remove noise insulation → Chapter.

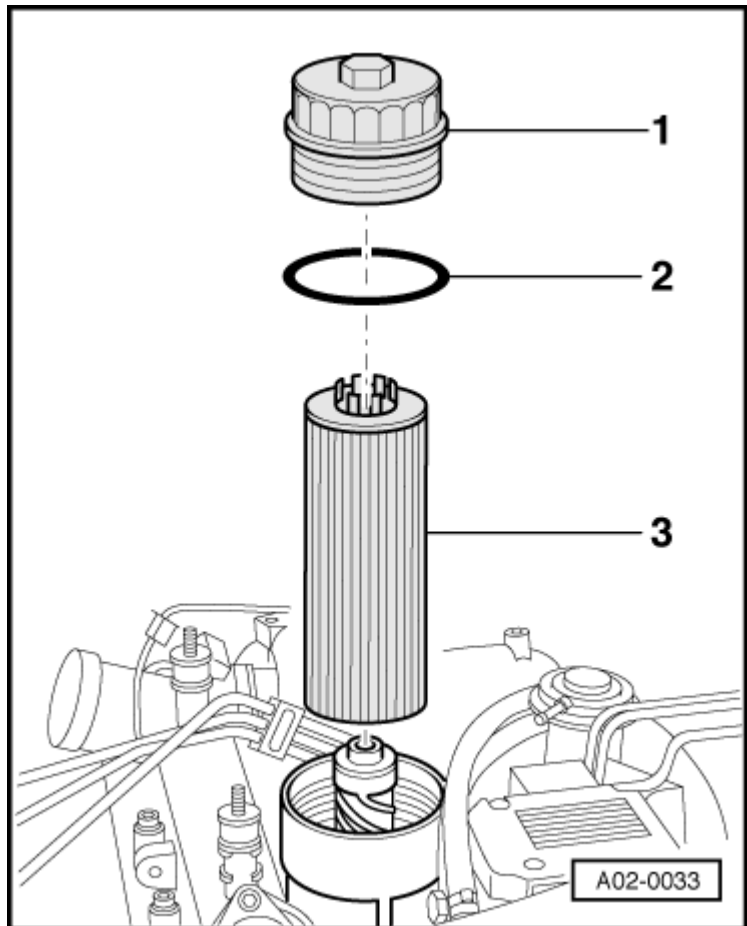
i Note

Loosen sealing cap before draining/extracting oil, so that engine oil can flow out of oil filter housing.

- Loosen sealing cap -1- with oil filter tool -

3417-.

- Open oil drain plug / draw off engine oil.
- Fit new O-rings and oil filter element.
- Tighten sealing cap with oil filter tool - 3417-.
- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications → Chapter.



| Tightening torques | Nm |
|--------------------|----|
| Oil drain plug | 30 |
| Sealing cap | 25 |

Note

- t *Engines with turbocharger:*
- t *When the engine oil and oil filter have been changed, it is important to note the following after starting the engine for the first time:*
- t *The engine must only run at idling speed as long as the oil pressure warning lamp in dash panel is on. Do not rev up! If the engine is revved up the turbocharger can be damaged or fail completely.*
- t *The full oil pressure is not attained until the warning lamp has gone out, only then can the engine be revved up.*
- t *Keep components clean.*

6-cyl. 3.2 ltr. FSI petrol engines

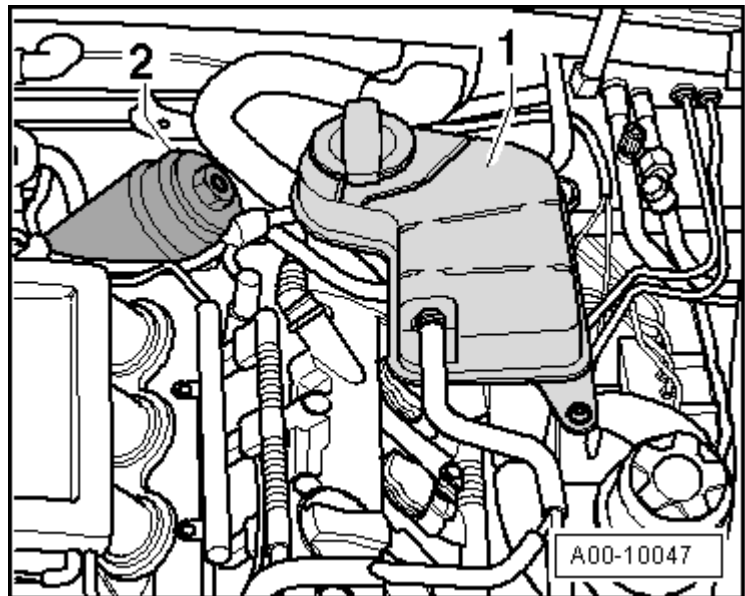
Note

Loosen sealing cap before draining/extracting oil, so that engine oil can flow out of oil filter housing.

- Unbolt coolant expansion chamber -1- and lay it aside.
- Unscrew oil filter cover -2- using socket

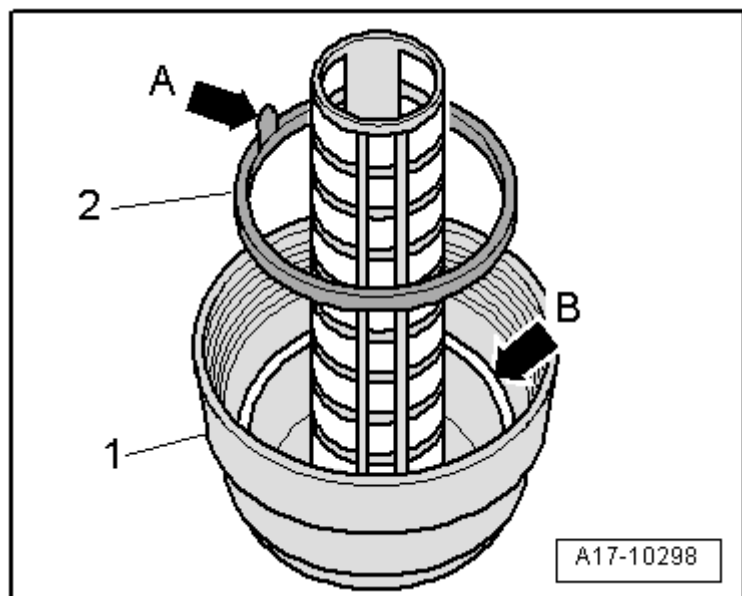
(36 mm).

- Clean sealing surfaces on oil filter cover and on oil filter housing.
- Renew oil filter element.



Renewing seal on sealing cap

- Take hold of lug -arrow A- and pull seal out of sealing cap -1-.
 - Fit semi-circular profile of new seal -2- in groove -arrow B- on sealing cap.
- 1 Lug -arrow A- must face upwards.
 - 1 Flat side of seal -2- must face outwards.



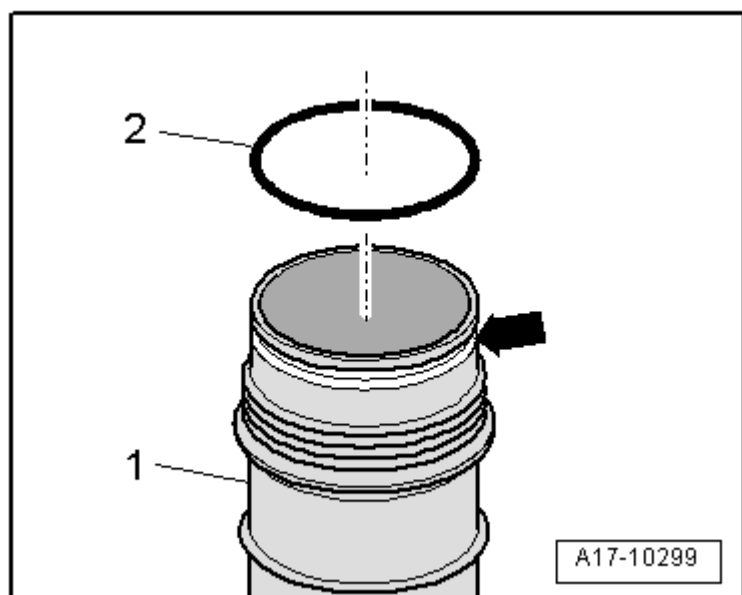
Installing O-ring on oil filter housing

- Fit O-ring -2- in groove -arrow- on oil filter housing -1-.

Note

Observe disposal regulations.

- Engage new oil filter element in oil filter cover.
- Install oil filter cover.
- Install coolant expansion chamber.
- Remove noise insulation.
- Open oil drain plug at sump / draw off engine oil.
- Screw in oil drain plug.



Note

- t The oil drain plug is installed without a seal.
- t Keep components clean.

| Tightening torque | Nm |
|------------------------|----|
| Oil filter cover | 25 |
| Oil drain plug to sump | 30 |

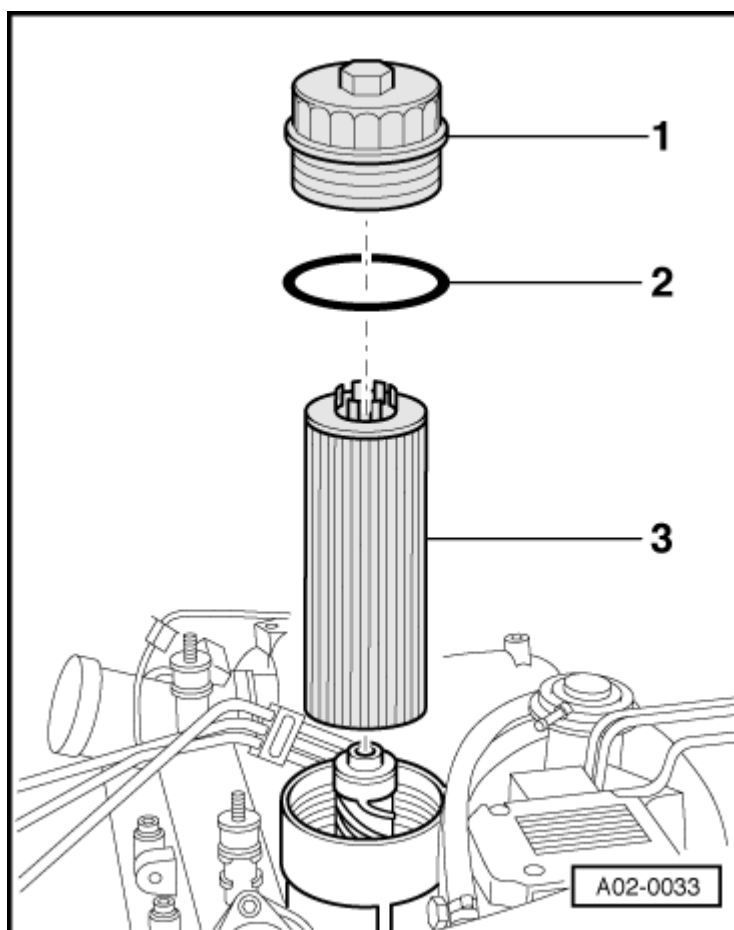
- Fill up with engine oil → Chapter.

6-cyl. TDI engines

Note

Loosen sealing cap before draining/extracting oil, so that engine oil can flow out of oil filter housing.

- Loosen sealing cap -1-.
- Renew O-rings -2- and oil filter element -3-.
- Extract remaining oil from filter housing using oil extractor.
- Open oil drain plug / draw off engine oil.
- Screw in oil drain plug with new seal.
- Tighten sealing cap -1- using socket (32 mm).



Note

- t Engines with turbocharger:
- t When the engine oil and oil filter have been changed, it is important to note the following after starting the engine for the first time:
- t The engine must only run at idling speed as long as the oil pressure warning lamp in dash panel is on. Do not rev up! If the engine is revved up the turbocharger can be damaged or fail completely.
- t The full oil pressure is not attained until the warning lamp has gone out, only then can the engine be revved up.
- t Keep components clean.

| Tightening torques | Nm |
|--------------------------------------------------------|----|
| Sealing cap for oil filter | 25 |
| Sealing cap for oil filter 2.7 ltr. TDI ; 3.0 ltr. TDI | 35 |
| Oil drain plug 2.5 ltr. TDI | 25 |
| Oil drain plug 2.7 ltr. TDI ; 3.0 ltr. TDI : | |
| M 24 | 50 |

M 14

30

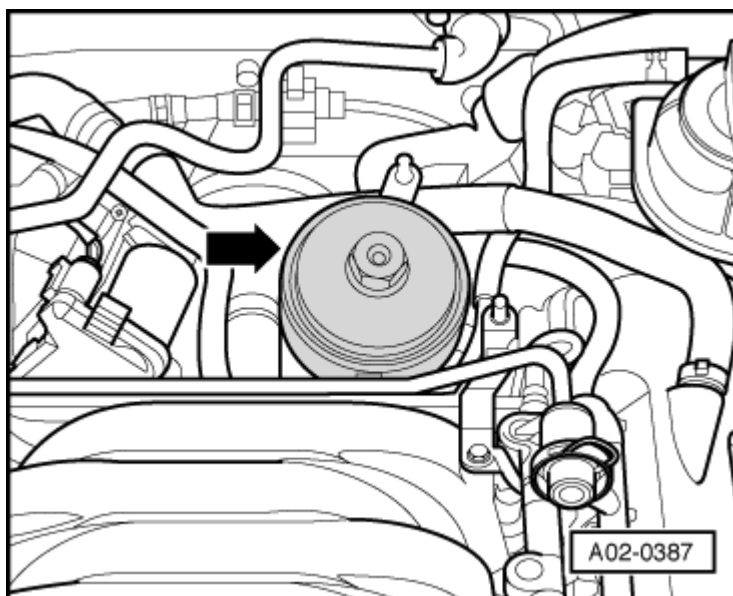
- Fill up with engine oil, specifications → Chapter.

8-cyl. 4.2 ltr. MPI petrol engines

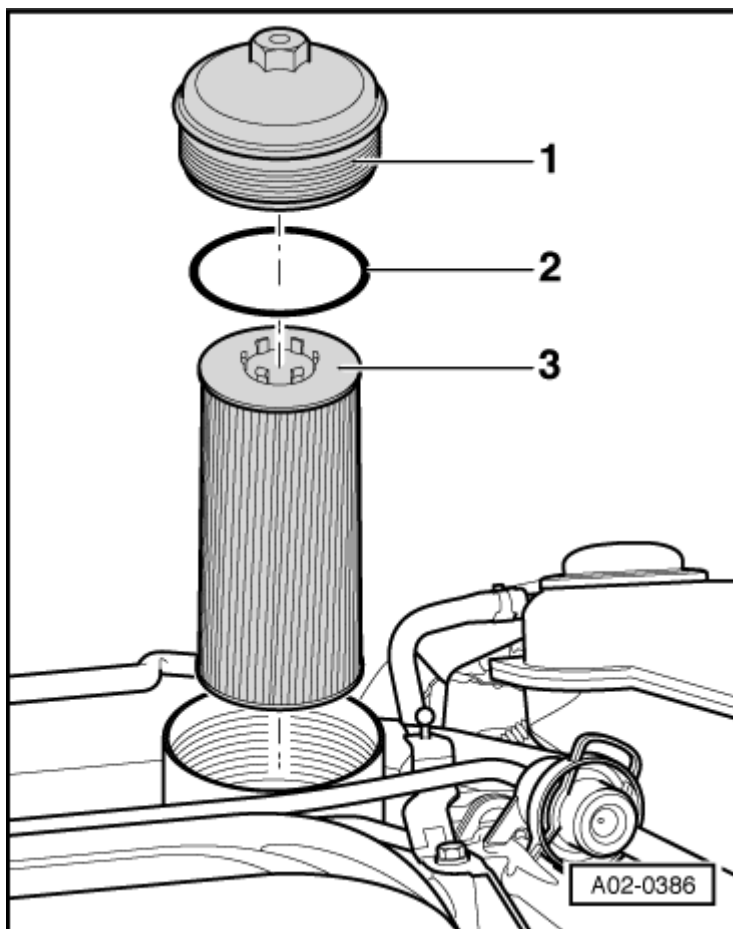
- Lift off engine cover.
- Loosen sealing cap for oil filter -arrow- using socket (24 mm).
- Take out filter element.

i Note

Taking out the filter element will open a valve; the oil in the filter housing will then automatically flow into the crankcase.

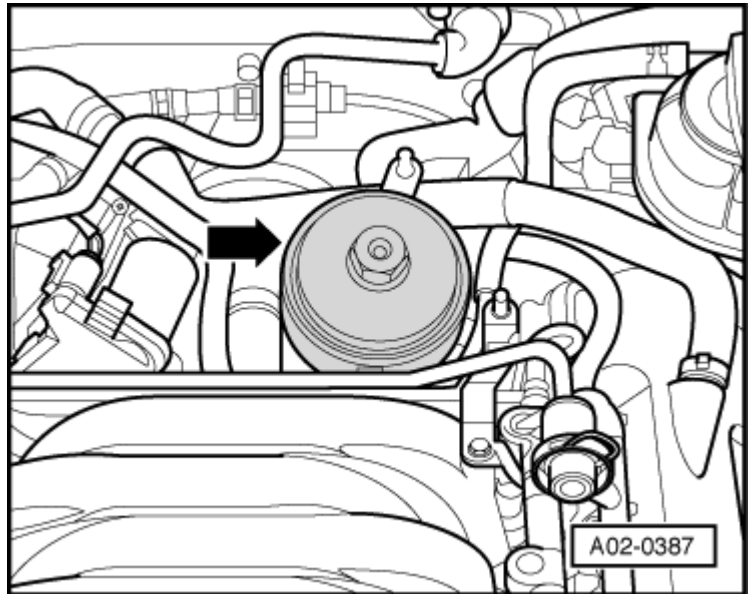


- Renew O-ring -2- and oil filter element -3-.



- Tighten sealing cap -arrow-.

- Open oil drain plug / draw off engine oil.
- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications → Chapter.



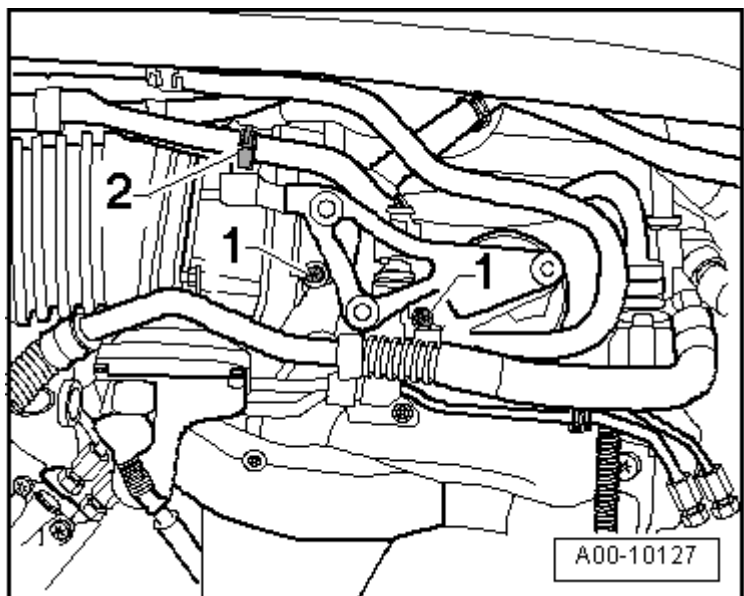
| Tightening torque | Nm |
|----------------------------|----|
| Sealing cap for oil filter | 25 |
| Oil drain plug | 50 |

Note

Keep components clean.

8-cyl. 4.2 ltr. FSI petrol engines (RS 4)

- Lift off engine cover.
- Slacken bolts -1- and unclip line -2-.
- Detach bracket and place it aside.

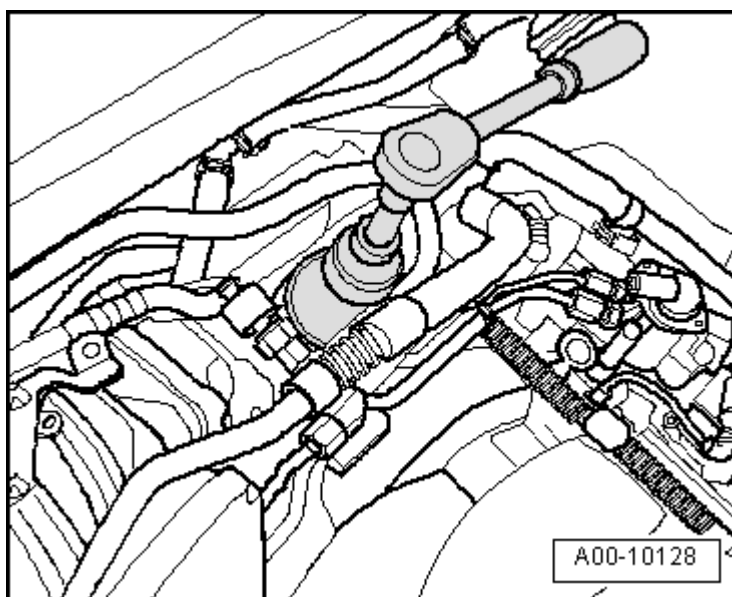


- Loosen sealing cap for oil filter -arrow- using socket (32 mm).
- Take out filter element.

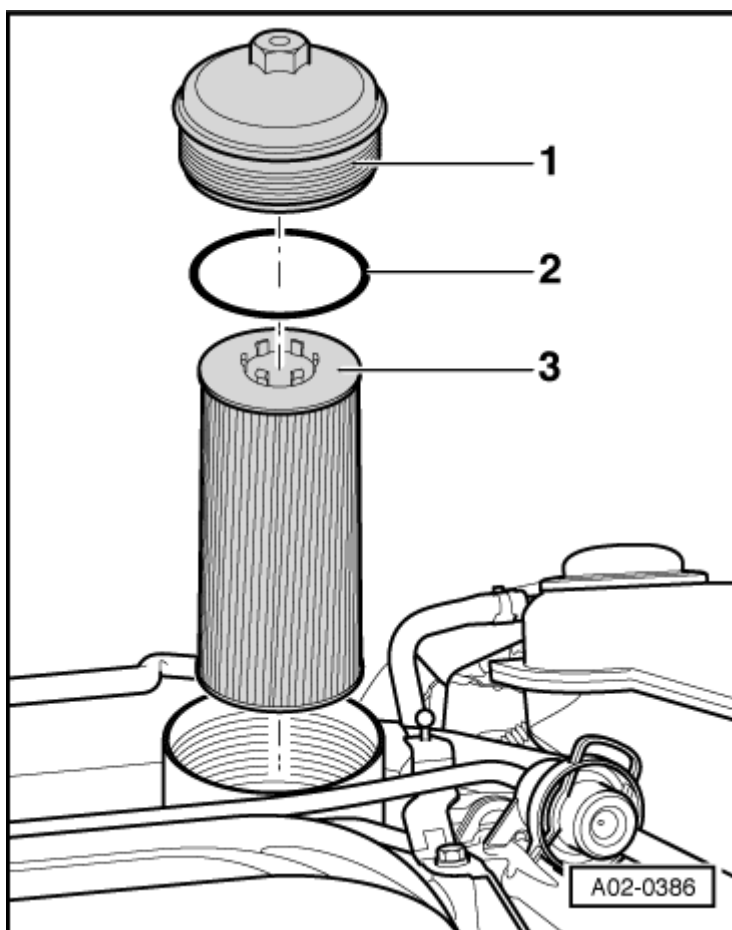
Note

Taking out the filter element will open a valve;

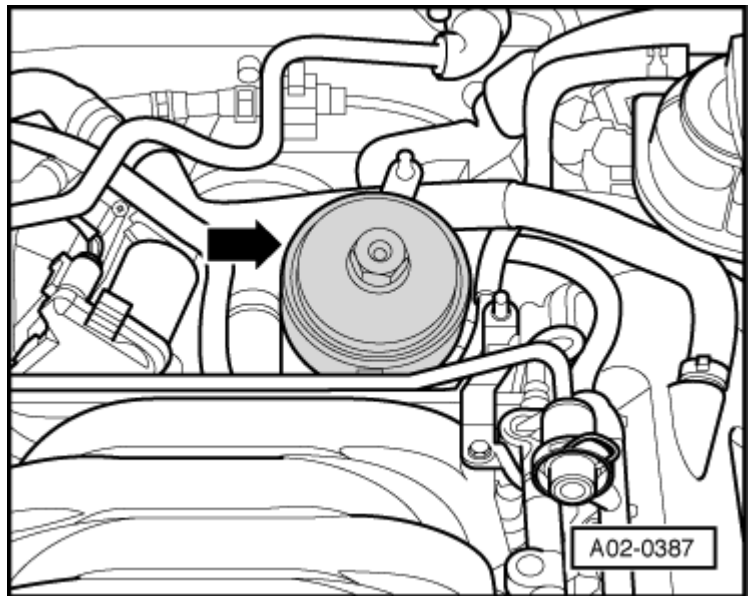
the oil in the filter housing will then automatically flow into the crankcase.



- Renew O-ring -2- and oil filter element -3-.



- Tighten sealing cap -arrow-.
- Open oil drain plug and drain off engine oil.
- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications
→ Chapter.



| Tightening torque | Nm |
|----------------------------|----|
| Sealing cap for oil filter | 25 |
| Oil drain plug | 25 |

i Note

- t *Keep components clean.*
- t *Do NOT draw off the engine oil with an oil extractor.*