# Left and right timing chain covers, removing and installing

# Special tools and workshop equipment required

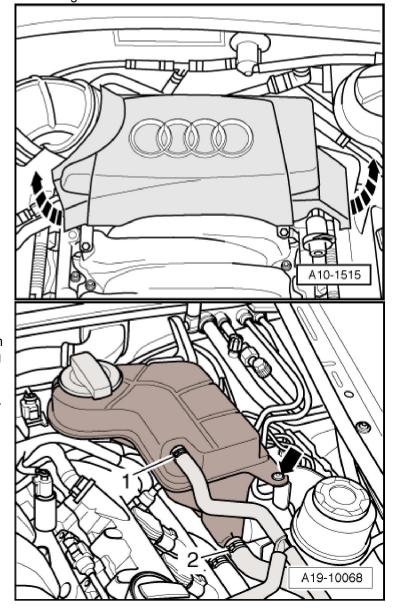
- Hand drill with plastic brush attachment
- Protective glasses
- Sealant → Electronic Parts Catalog "ETKA"

### Removing



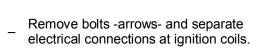
All cable ties which are opened or cut open when removing, must be replaced in the same position when installing.

- Remove rear engine cover -arrows-. Left timing chain cover:



- Remove coolant expansion tank arrow-.
- Disconnect electrical connection from Engine Coolant Level (ECL) Warning Switch -F66- at bottom of coolant reservoir and set aside coolant reservoir with coolant hoses -1- and -2- connected.

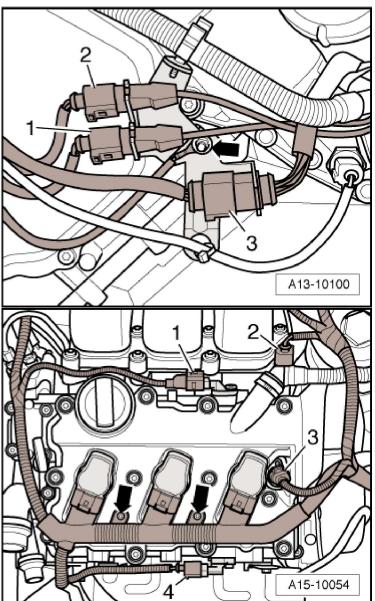
- Disconnect electrical harness connectors -1 to 3-.
- Remove nut -arrow-.
- Remove retainer for connection -3-.
- Remove double-bolt lying beneath.
- Remove retainer for connections -1-
- and -2-.





Ignore items -1 to 4-.

Free up electrical wiring.



Remove bolts -1 to 8- and remove left timing chain cover.

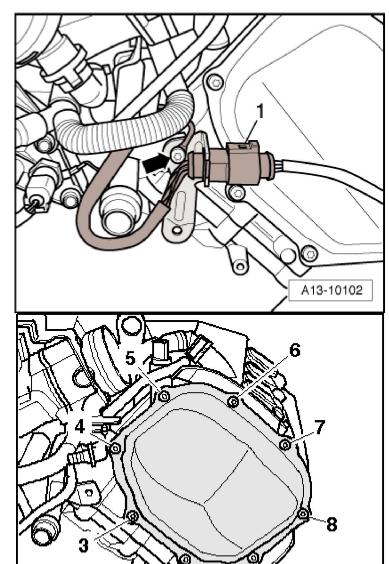
# A13-10254

A10-10124

# Right timing chain cover:

- Disconnect check valve -1- from connection at air duct hose. Remove air duct hose, thereby loosening hose clamp -2- and opening clips -arrows-.

- Disconnect electrical connector -1-.
  Remove bolt -arrow- and remove
- retainer for connection.



A13-10255

Remove bolts -1 to 8- and remove right timing chain cover.

# Installing



Note

During installation, all cable ties must be re-installed at the same location.



Wear safety glasses.

Using e.g. a rotating plastic brush, remove sealant residue on covers for timing chain and on cylinder block and head.



# Caution

Make sure that no sealant residue enters the engine.

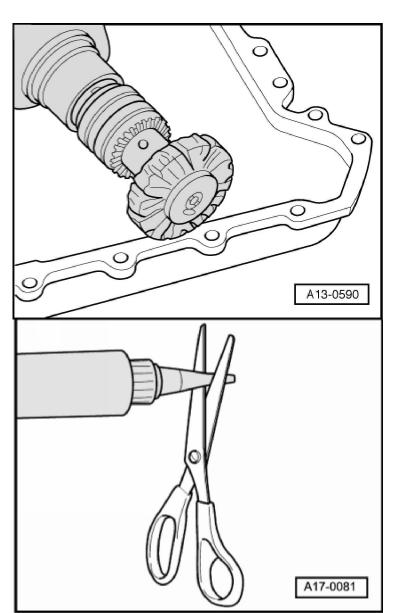
 Clean sealing surfaces so they are completely free of any oil or grease.

Cut tube nozzle at front marking (jet dia. approx. 1 mm).



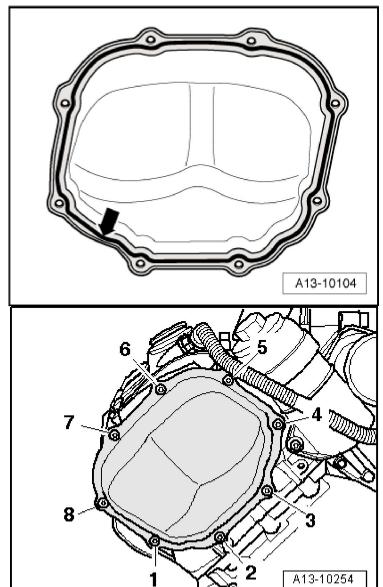
# Note

Covers for timing chain must be installed within 5 minutes after applying sealant.

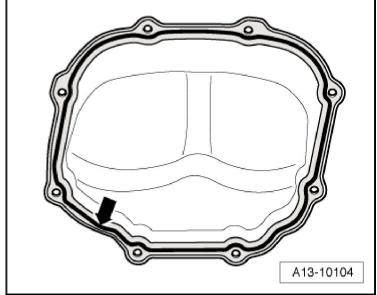


- Apply sealant bead -arrow-, as shown in illustration, on clean sealing surfaces of left cover for timing chain.
- The groove of sealing surface must be completely filled with sealant.
- Sealant bead must stand 1.5 to 2.0 mm above sealing surface.

Position left timing chain cover and tighten bolts in sequence -1 to 8-.



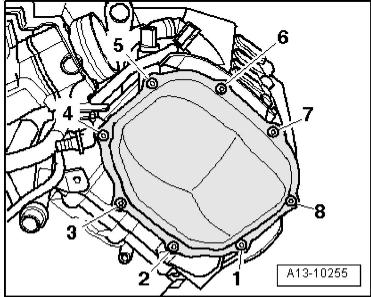
- Apply sealant bead -arrow-, as shown in illustration, on clean sealing surfaces of right cover for timing chain.
- The groove of sealing surface must be completely filled with sealant.
- Sealant bead must stand 1.5 to 2.0
- mm above sealing surface.



Position right timing chain cover and tighten bolts in sequence -1 to 8-.

Further installation is in reverse order of removal.

Torque specifications



Component	Nm
Left and right cover for timing chain on engine	5 + 90° 1)2)
Retainer for connections to cylinder head	9
Hose clamps 9 mm wide	3

- 1) Replace bolts.
- <sup>2)</sup> 90° corresponds to a quarter turn.