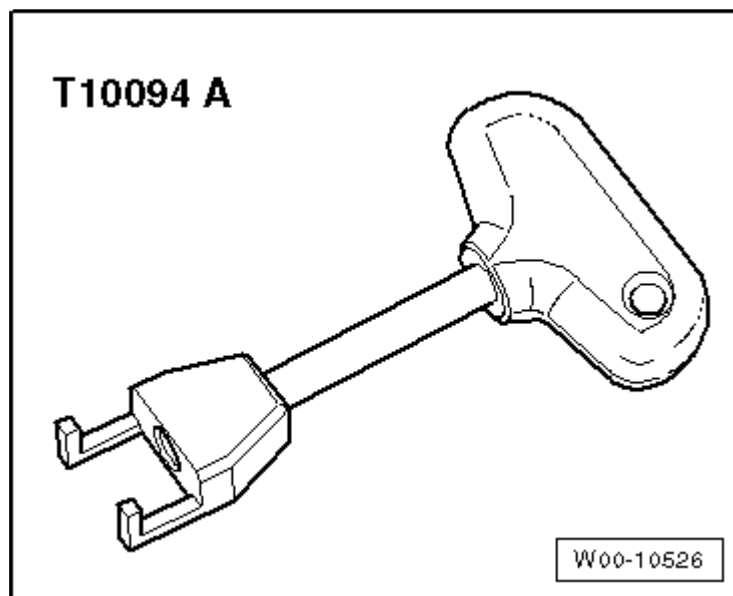


## Removing and installing camshaft housing

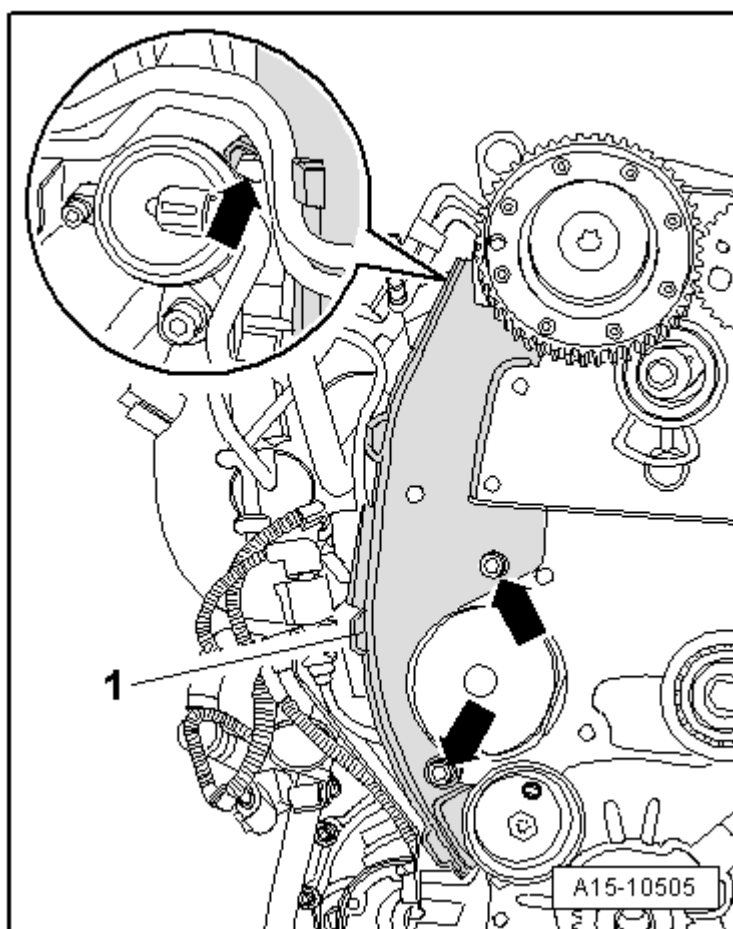
### Special tools and workshop equipment required

- ♦ Puller -T10094 A-
- ♦ Sealant remover, commercially available
- ♦ Sealant → [Electronic parts catalogue](#)

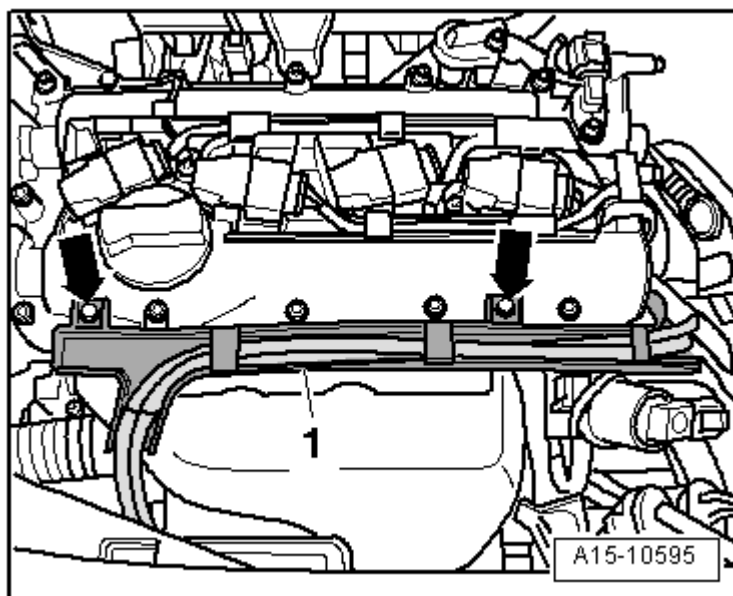


### Removing

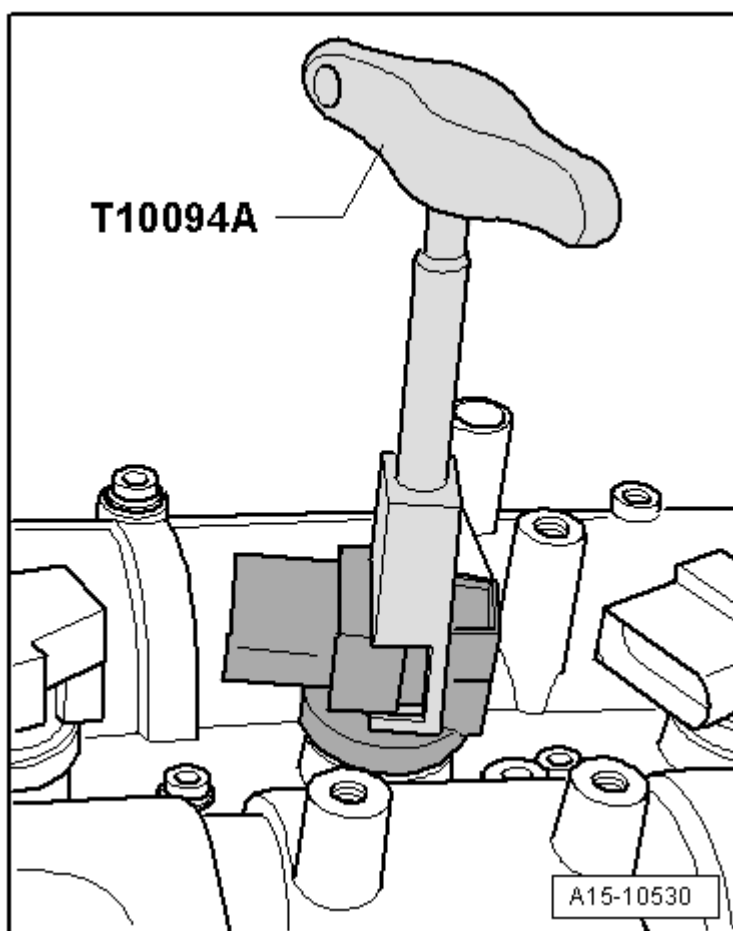
- Remove coupling drive toothed belt  
→ [Chapter](#).
- Remove bolt -top arrow- securing rear cover -1- for toothed belt.



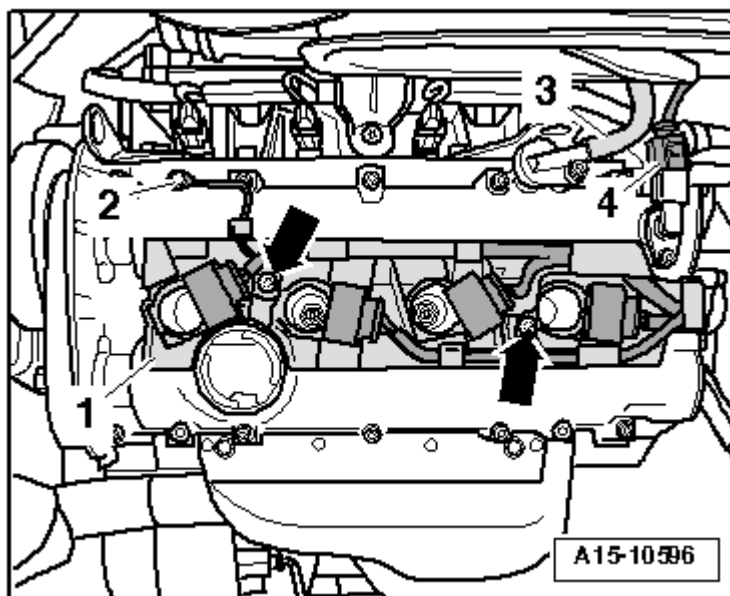
- Remove bolts -arrows- and move wiring guide -1- clear to one side.



- Apply puller -T10094 A- to all ignition coils -arrow-, pull out ignition coils and at the same time unplug electrical connectors at ignition coils for cylinders 1 ... 4.



- Detach filler cap for oil filler neck.
- Unplug electrical connector -4- at Hall sender -G40-.
- Remove bolt -2- securing earth wire and bolts -arrows- securing wiring guide.
- Swivel wiring guide to the left and detach hose -3- from non-return valve.



- Slacken camshaft housing bolts in the sequence -15 ... 1-.
- Carefully lift off camshaft housing.
- Mark original positions of roller rocker fingers and compensation elements for reinstallation.
- Remove roller rocker fingers together with compensation elements and put down on a clean surface.

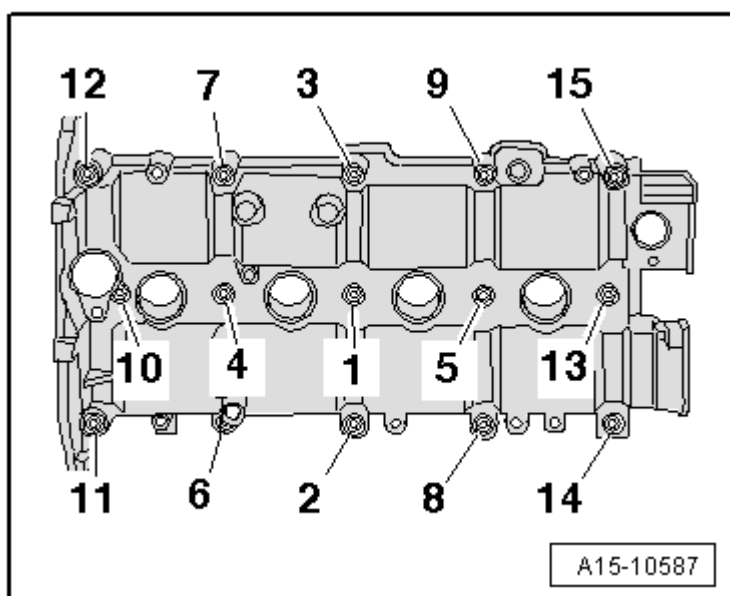
#### Installing

- Tightening torques → Fig.
- No piston at „TDC“.



#### Note

Renew bolts for camshaft housing.



#### Caution

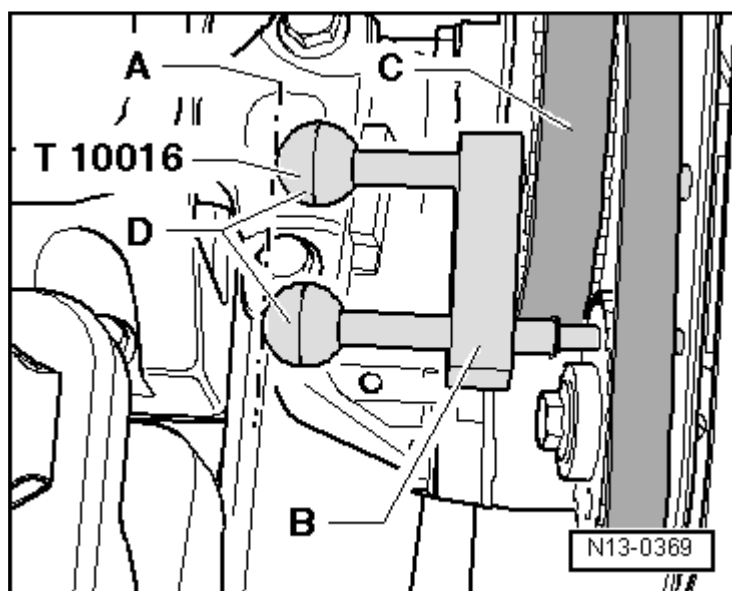
**Protect lubrication system and bearings against contamination.**

**Cover exposed parts of the engine.**

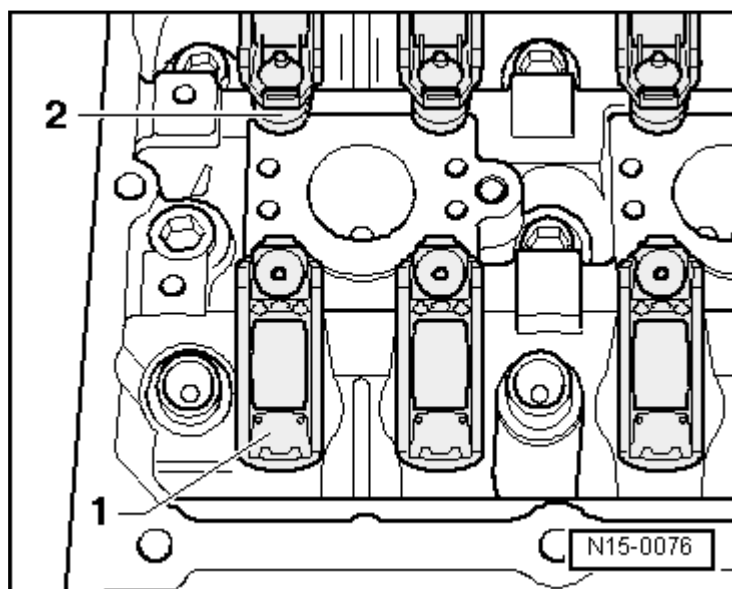
- Remove sealant residue on cylinder head and camshaft housing using commercially available sealant remover.
- Clean sealing surfaces; they must be free of oil and grease.
- Insert locking pins -D- on camshaft lock -T10016- all the way into locating holes in camshaft housing as follows:
  - Through locating hole in inlet camshaft sprocket -C-.
  - Through locating hole in exhaust camshaft

sprocket.

- The knobs on locking pins must be on a level -line A-.
- Push retainer -B- onto inlet camshaft sprocket as far as stop.



- Ensure all roller rocker fingers contact the valve ends -1- correctly and are clipped into their respective support elements -2-.

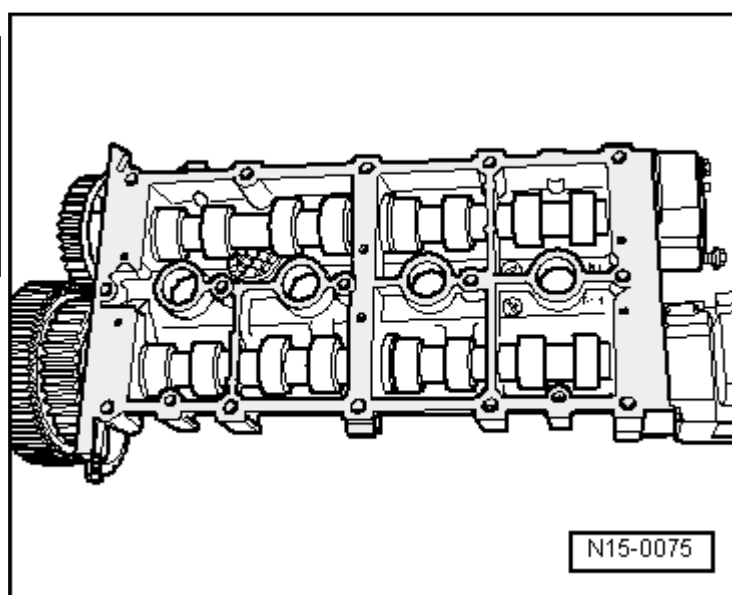


**Caution**

***Make sure lubrication system is not clogged by excess sealant.***

***The sealant bead must not be thicker than specified.***

- Apply a thin and even layer of sealant to the clean sealing surface of the camshaft housing at grey-shaded area shown in illustration.



- Screw in 2 threaded pins M6x70 - arrows- into cylinder head to guide

camshaft housing.



### Caution

**Make sure remnants of oil are removed before fitting, otherwise leakage can occur.**

**Make sure sealing surfaces are free of oil when fitting camshaft housing.**

- Carefully fit the camshaft housing vertically onto the threaded pins and dowel pins on cylinder head from above.



### Note

**Make sure that camshaft housing is kept straight.**

- Tighten camshaft housing bolts → Fig..



### Note

**After fitting camshaft housing, allow sealant to dry for approx. 30 minutes.**

Remaining installation steps are carried out in reverse sequence; note the following:

- Install cover (rear) for toothed belt → Chapter.
- Install coupling drive toothed belt → Chapter.

