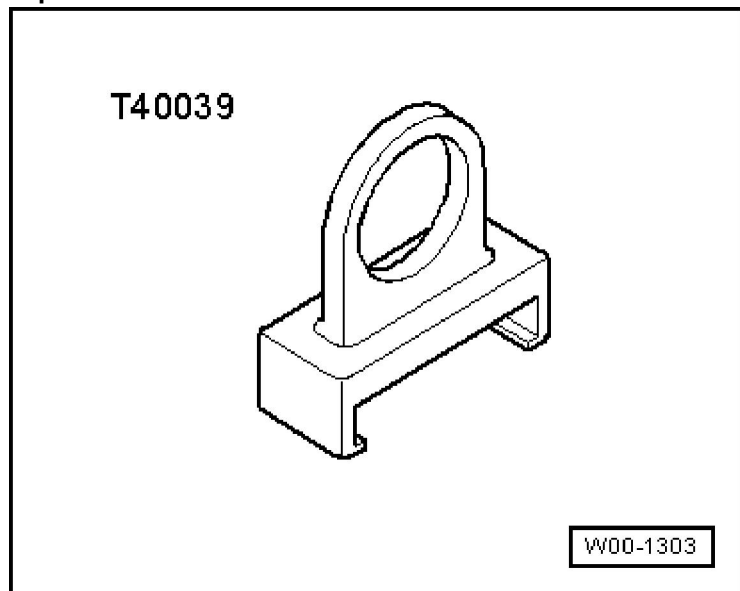


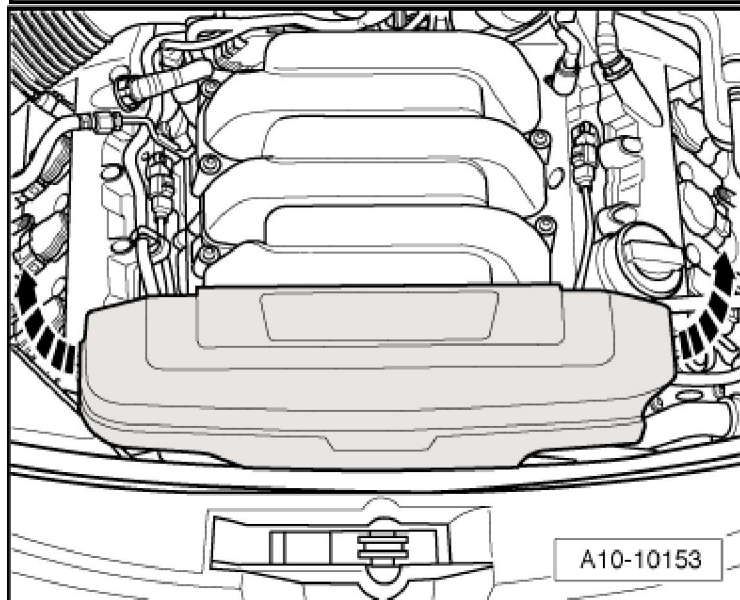
## Left cylinder head cover (US/Can. vehicles), removing and installing

Special tools and workshop equipment required

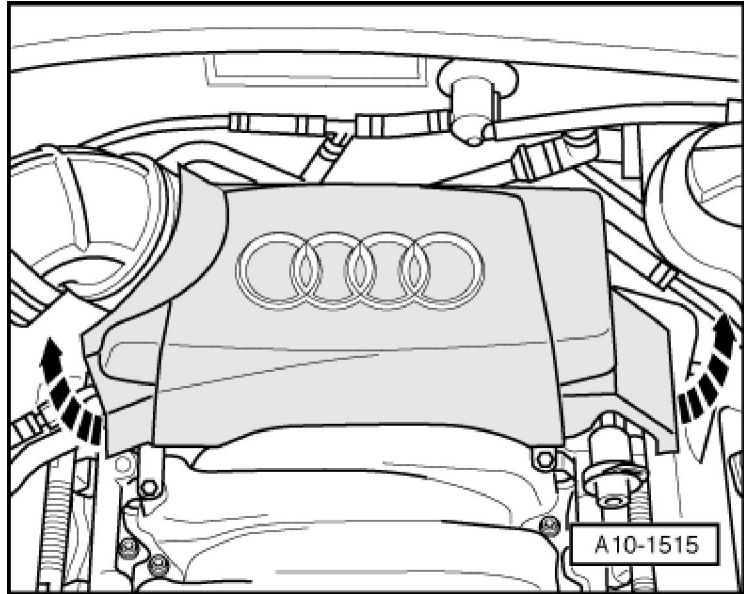
- ◆ Ignition Coil Puller -T40039-  
Removing



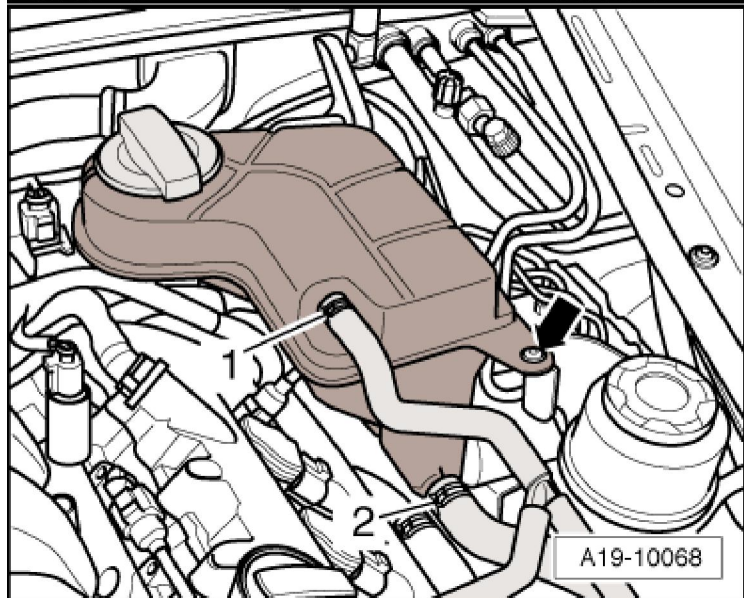
- Remove front engine cover -arrows-.



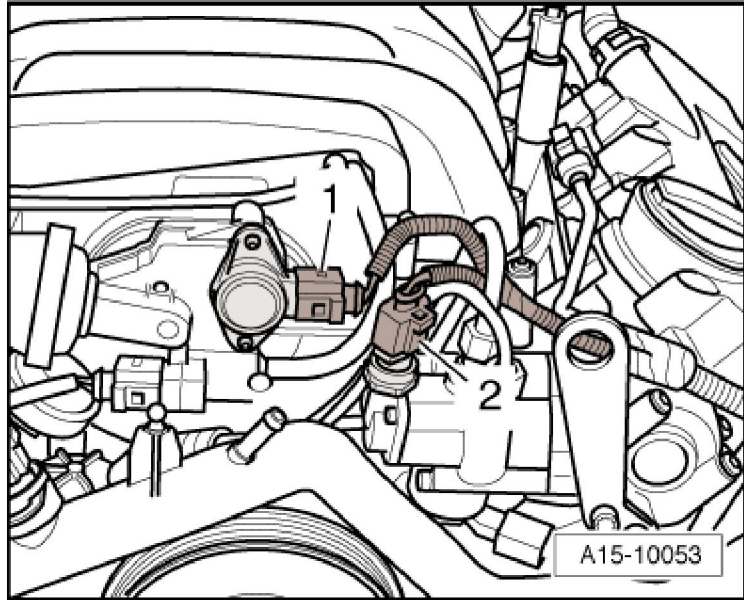
- Remove rear engine cover -arrows-.



- 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.

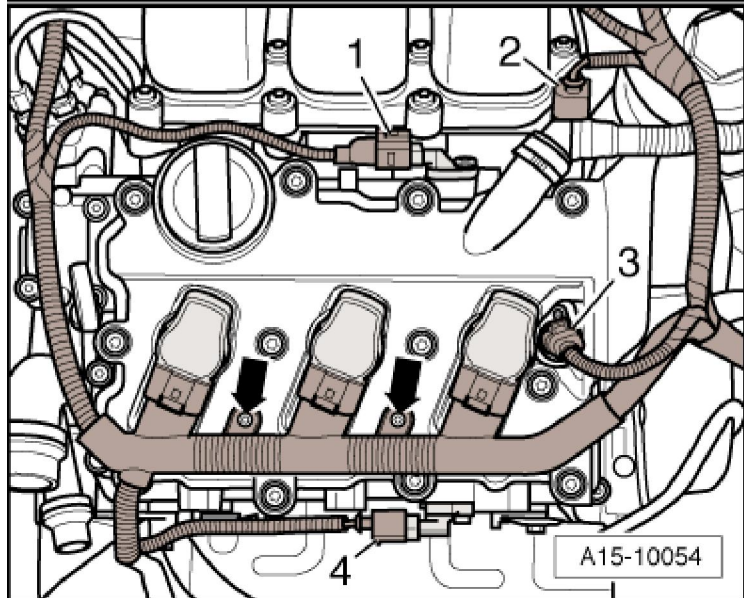


- Disconnect electrical harness connectors.
- 1 - Change-over valve for intake manifold flap -N239-
- 2 - Intake Manifold Tuning (IMT) Valve Position Sensor -G513-

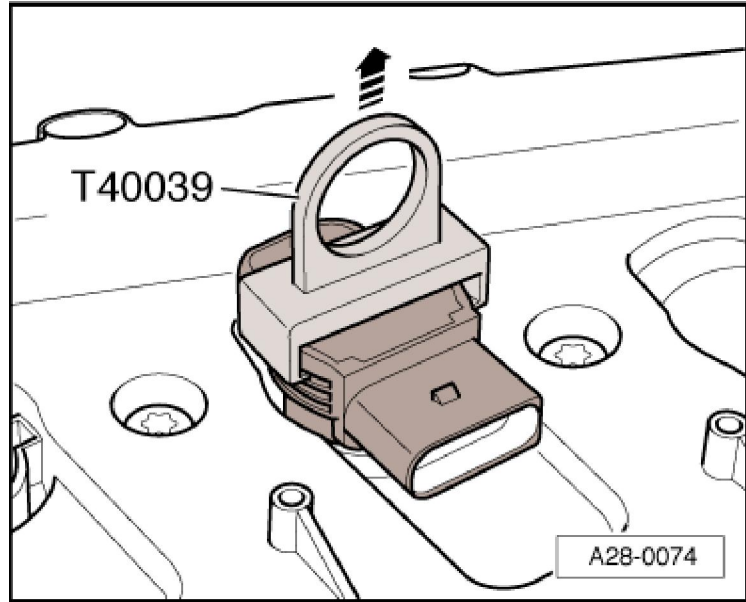


- Disconnect electrical harness connectors.
- 1 - Camshaft position (CMP) sensor 2 -G163-
- 2 - Camshaft Adjustment Valve 2 - N208-
- 3 - Camshaft Adjustment Valve 2 (exhaust) -N319-
- 4 - Camshaft position (CMP) sensor 4 -G301-

- Remove bolts -arrows- and separate electrical connections at ignition coils.
- Set electrical wiring harness aside.



- Remove ignition coils using Ignition Coil Puller -T40039-.



- Remove left cylinder head cover bolts in sequence -12 to 1-.



Note

Disregard -arrow-.



**Caution**

Crankcase ventilation must not be removed.

Lay aside removed cylinder head cover

- cover with connected crankcase ventilation hose.

Installing

Installation is in reverse order of removal, note the following:



Note

- ◆ Replace cylinder head cover gaskets if damaged.
- ◆ Replace bolts for cylinder head cover if gasket is damaged.
- Clean sealing surfaces so they are completely free of any oil or grease.
- Tighten cylinder head cover in sequence -1 to 12-.

Torque specifications

Component	Nm
Cylinder head cover to cylinder head	9

