Camshaft Adjuster

- Socket -T40080-
- Camshaft Clamp -T10252-
- **Toothed Belt** Tensioner -T10020-
- Locking Pin -T10115-
- Torque Wrench (40-200 Nm) -V.A.G 1332-

Removing

- Remove the high pressure pump. Refer to High Pressure Pump.
- Remove the cylinder head cover. Refer to Cylinder Head Cover.
- Remove the coolant hoses -1 and 2-and the bolt -3-and then remove the coolant pipe from the heat shield.
- Remove the wire bracket bolt -arrow-.
– Remove the housing bolts -arrows-.

– Bring the mark on the camshaft sprocket to alignment with the mark on the toothed belt guard. The recesses -arrows-in the camshafts now point to each other vertically.
– Install the camshaft clamp -T10252- as shown and secure it -arrows-.

– Loosen the camshaft adjuster bolt using the socket -T40080-.

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*Do not twist the socket -T40080-. Otherwise it may over wind.*

– Compress the chain tensioner -arrow A- and secure it using the locking pin -T10115- -arrow B-.

– Remove the camshaft adjuster bolt and then remove the adjuster and the chain.

**Installing**

**Requirement**
- The camshafts are secured using the camshaft clamp -T10252-. 
  - Place the chain onto the camshaft adjuster.

- Hold the camshaft adjuster in front of the exhaust camshaft so that the notch -A- and pin -B- align.
Place the chain in this position onto the chain sprocket of the intake camshaft, first at the top -arrow-.

Slowly rotate the intake camshaft using the toothed belt tensioner -T10020- in the -direction of the arrow A- until the camshaft adjuster fits onto the camshaft.

If the pin does not fit into the notch: Remove the chain and place the chain on again.

Tighten the camshaft adjuster bolt to 20 Nm + an additional 45° (1/8) turn. To do so, use the socket -T40080-.

Do not twist the socket -T40080-. Otherwise it may over wind.
- Remove the locking pin -T10115- -arrow B-. Further installation is in the reverse order of removal.

- Install the high pressure pump. Refer to High Pressure Pump.