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Customer data

.....
Name

.....
Street

.....
Postcode *Town/City*

.....
Country

.....
Licence plate number *Kilometer/mileage reading*

.....
VIN

 **Timing belt data**

Audi A4

Year of constr. 2009-2013 • 1984 ccm • 155 kW

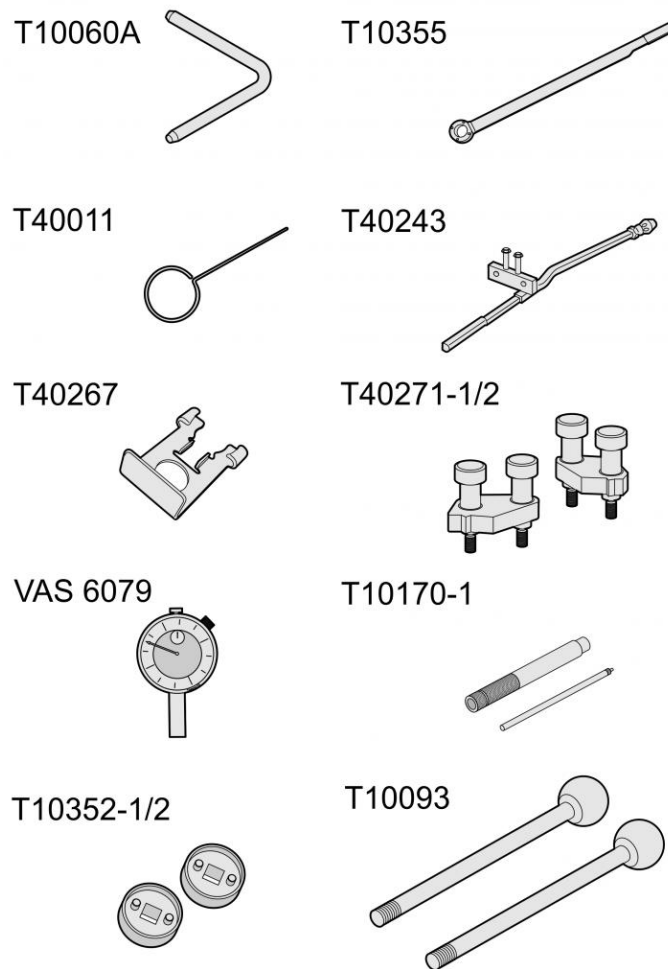
<https://www.hgs-data.com/index.php/timingbelt/index/vehicleId/2851>

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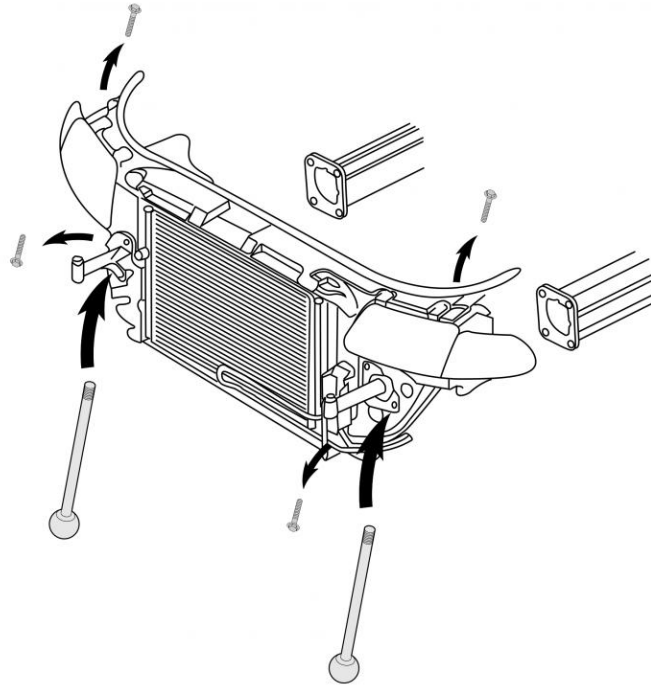
1 Version: Timing chain

1.1 Tools



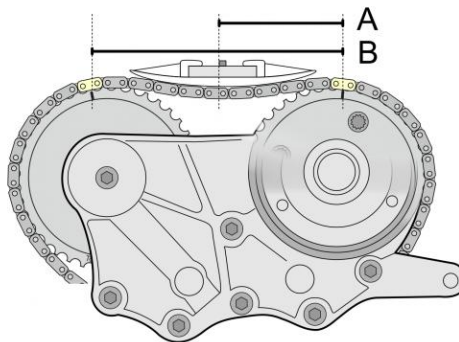
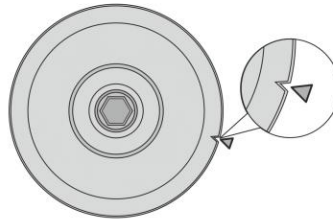
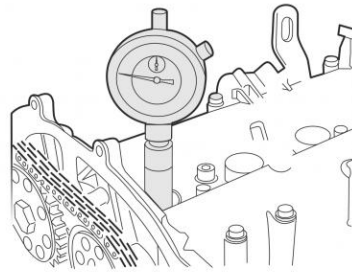
- T10060A = Locking pin for accessory drive belt tensioner
- T10355 = Counter holding tool for crankshaft pulley/vibration damper
- T40011 = Chain tensioner locking tool
- T40243 = Chain tensioner release tool
- T40267 = Chain tensioner locking tool
- T40271 - 1/2 = Camshaft locking tool
- VAS 6079 = Dial gauge
- T10170 = Dial gauge adapter
- T10352/1 or T10352/2 = special tool
- T10093 = Guide pins

1.2 Dismounting



- Remove the front bumper.
- Install T10093 guide pins.
- Move the front lock carrier into working position.

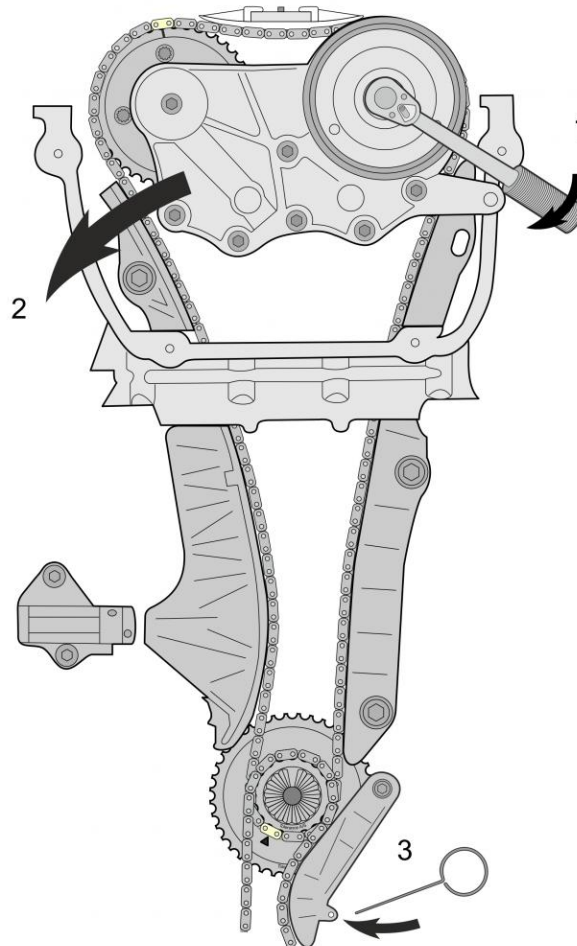
1.3 Dismounting 1



- Remove noise insulating plate.
- Loosen accessory drive belt tensioner. Use T10060A locking pin for accessory drive belt tensioners.
- Remove V-ribbed belt.
- Dismount engine cover.
- Dismount upper timing chain cover.
-
- Remove the spark plug on cylinder 1.
- Install dial gauge VAS 6079 and dial gauge adapter T10170 in cylinder 1.
- Rotate crankshaft towards markings, stop a bit before.
- Turn crankshaft clockwise until dial gauge shows maximum value.
- When dial gauge shows maximum value, the engine is on compression TDC on cylinder 1.
- Note: Do not turn crankshaft counterclockwise.
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- Examine markings on camshaft sprockets.

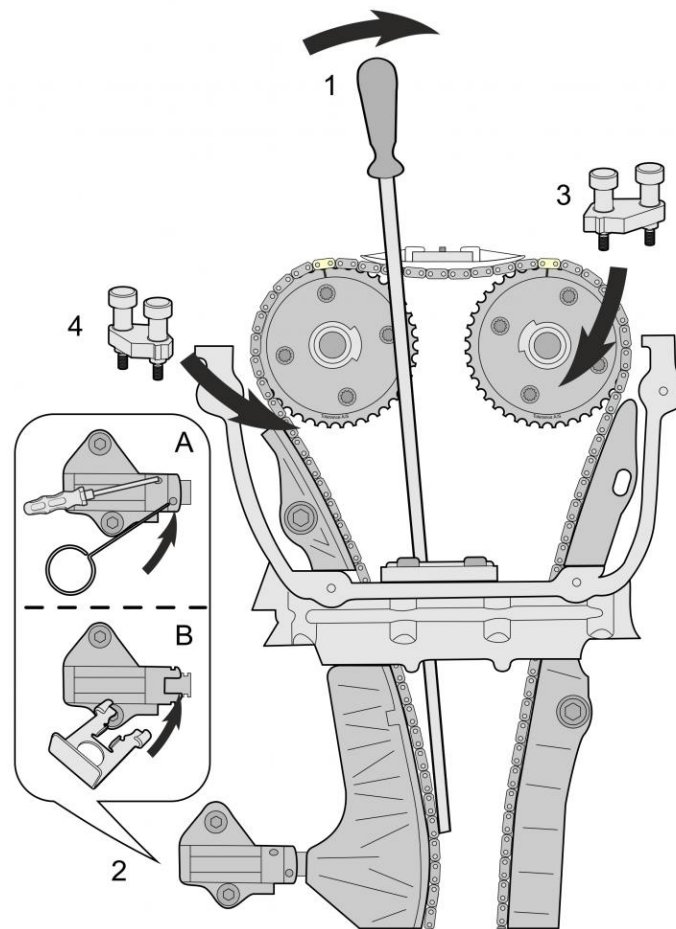
- Distance measure A:
- 2,40 - 2,52 inches.
- Distance measure B:
- 4,88 - 4,96 inches.

1.4 Dismounting 2



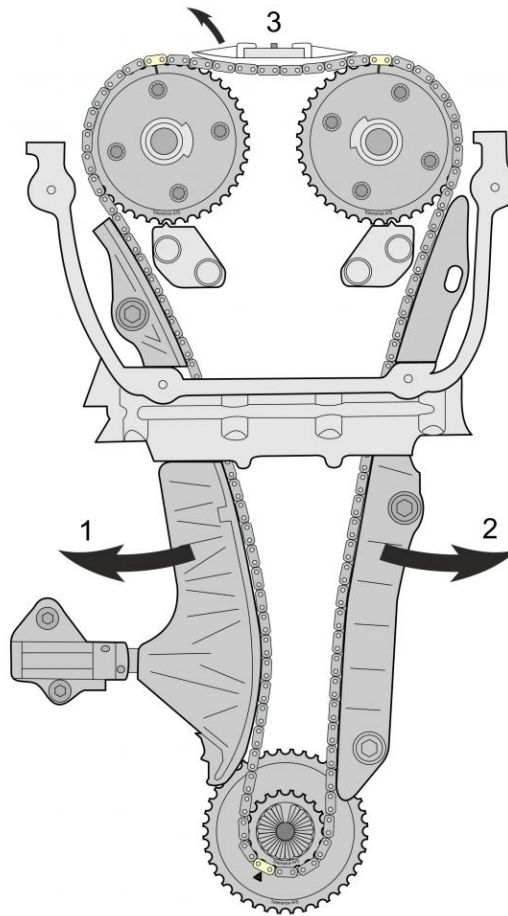
- Remove control valve. Use special tool T10352/1 or T10352/2. Note: Left-handed thread.
- Remove the bearing bracket.
- Remove the crankshaft pulley/ vibration damper. Use counter holding tool "T10355".
- Remove the bottom timing chain cover.
- Compress oil pump chain tensioner, and lock it with chain tensioner locking tool T40011.
- Remove the oil-pump chain-tensioner guide.
- Remove the oil pump chain.

1.5 Dismounting 3



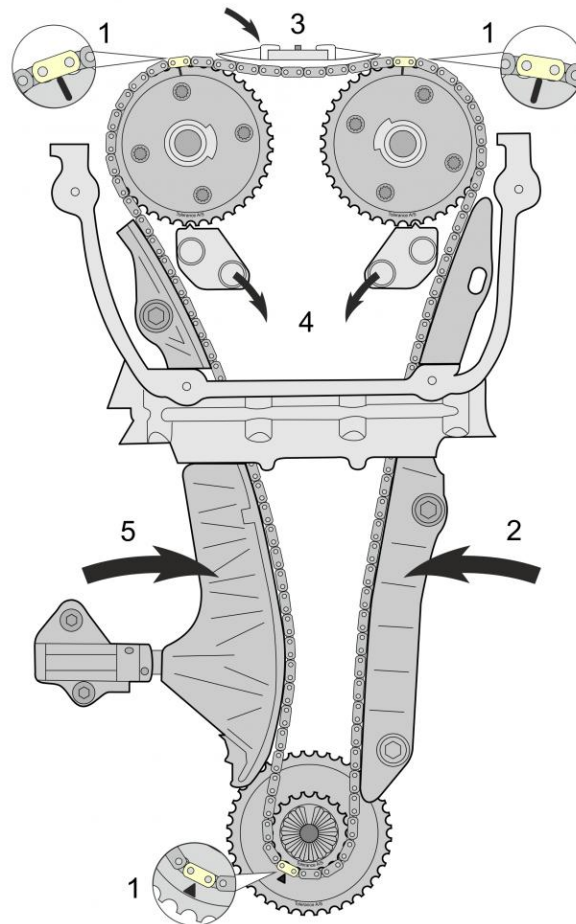
- Install chain tensioner release tool T40243.
- Note: Keep in mind, that the engine can have 2 different types of chain tensioner.
- Chain tensioner A:
 - To operate the chain tensioner, put a screwdriver into the trigger hole.
 - Compress timing chain tensioner. Lock it with chain tensioner locking tool T40011.
- Chain tensioner B:
 - Compress the timing chain tensioner, and lock it with chain tensioner locking tool T40267.
- Remove chain tensioner release tool T40243.
- Install "T40271/2" camshaft locking tool on the intake camshaft wheel.
- Install camshaft locking tool T40271/1 to exhaust camshaft sprocket.
- If necessary, turn camshaft with a spanner to install the locking tool.

1.6 Dismounting 4



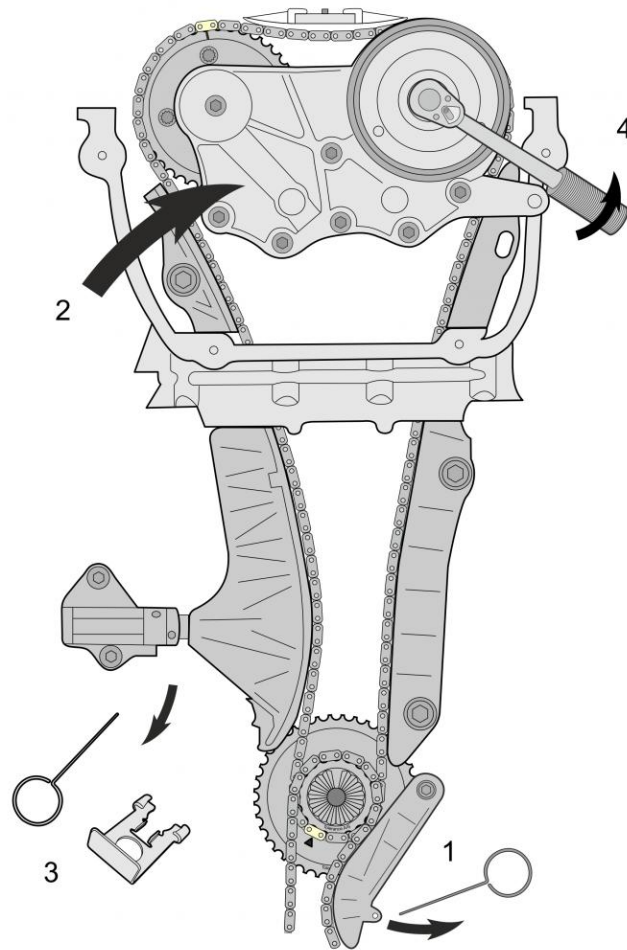
- Remove the timing-chain tensioner guide.
- Remove guide rail.
- Remove the top chain guide rail.
- Remove timing chain.

1.7 Mounting 1



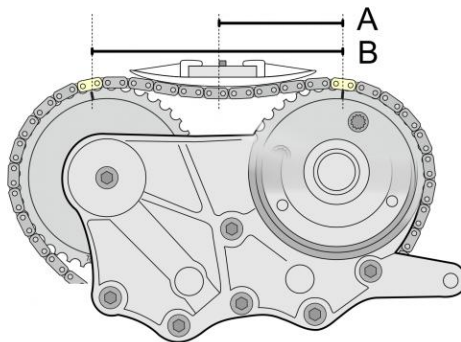
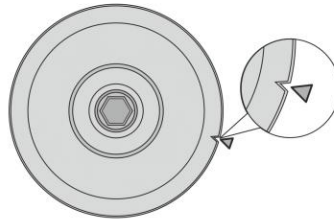
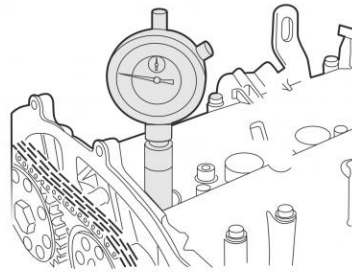
- Note: You find tightening torques in Technical Data under "Tightening torques".
-
- Install the timing chain in this sequence:
 - Intake camshaft sprocket
 - Exhaust camshaft sprocket
 - Crank pulley.
 - Check the colored chain links are aligned with corresponding markings on chain gears.
 - Install timing chain slack guide.
 - Fit the upper chain.
 - Remove "T40271/1" camshaft locking tool on the exhaust camshaft wheel.
 - Remove camshaft locking tool T40271/2 from intake camshaft sprocket.
 - Install the timing-chain tensioner guide.

1.8 Mounting 2



- Install oil pump chain.
- Install oilpump chain tensioner guide.
- Remove locking tool T40011 from chain tensioner.
- Loosely tighten the bearing bracket.
- Remove locking tool T40011 or T40267 from chain tensioner.
- Torque tighten bearing bracket.
- Install control valve. Use special tool T10352/1 or T10352/2. Note: Left-handed thread.
- Mount the lower chain cover.
- Turn crankshaft 720°.

1.9 Mounting 3



- Remove the spark plug on cylinder 1.
- Install dial gauge VAS 6079 and dial gauge adapter T10170 in cylinder 1.
- Rotate crankshaft towards markings, stop a bit before.
- Turn crankshaft clockwise until dial gauge shows maximum value.
- When dial gauge shows maximum value, the engine is on compression TDC on cylinder 1.
- Note: Do not turn crankshaft counterclockwise.
-
- Examine markings on camshaft sprockets.
- Distance measure A:
- 2,40 - 2,52 inches.
- Distance measure B:
- 4,88 - 4,96 inches.
- If markings do not align, repeat the procedure.
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- Install the top timing chain cover.
- Install crankshaft pulley/vibration damper. Use holding tool T10355.
- Install the remaining parts in opposite sequence.