

Tools

0187-A



0187-CZ



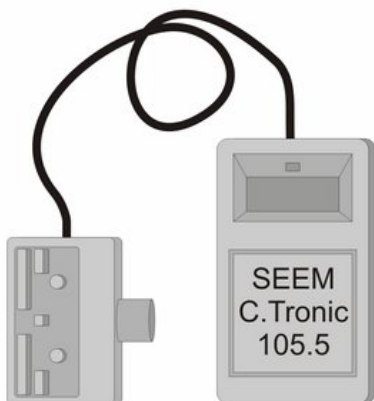
0187-EZ



0187-B



0187-J

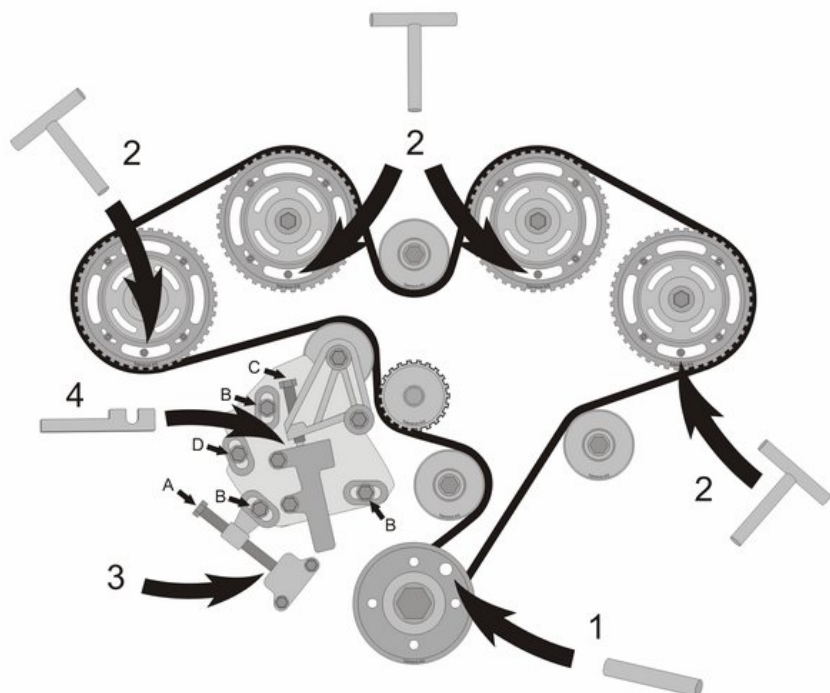


1. "0187-A" = Crank locking tool.
2. "0187-CZ" = Camshafts setting check rod.
3. "0187-EZ" = Timing dynamic tensioner setting gauge.
4. "0187-B" = Camshaft locking tool/rod.
5. "0187-J" = Tool for attaching tooth belt to crank gear.
6. "SEEM C. TRONIC 105" = Instrument for measuring tooth belt tension.

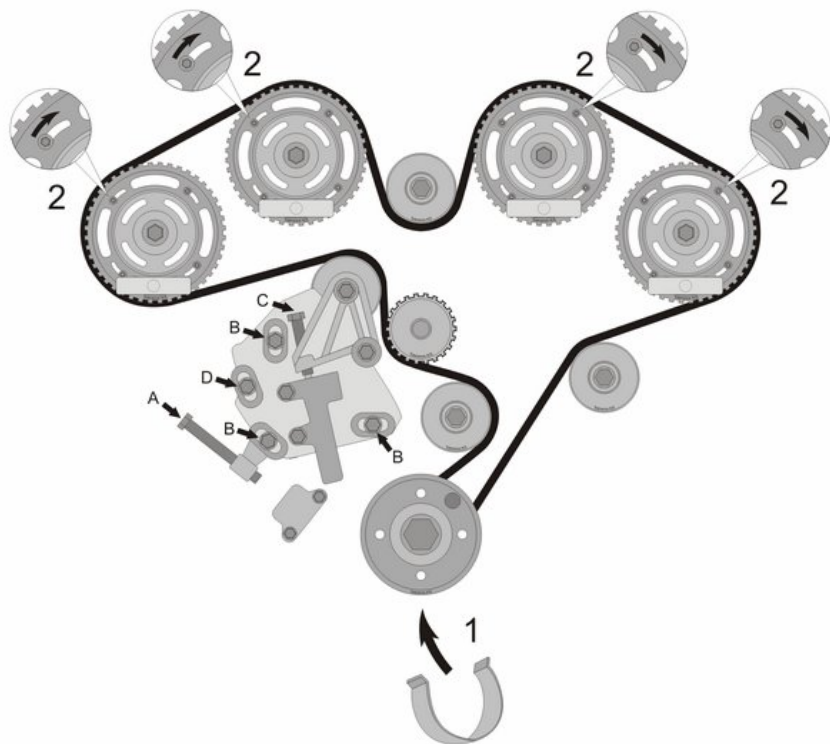
Dismount 1

1. Switch off ignition and wait at least 15 minutes before removing chassis cable.
2. Remove :
 - the right front wheel.
 - the right inner fender.
 - the multi-belt.
 - multi-belt tensioners.
 - crankshaft pulley / vibration damper.
3. Dismount power steering pump pulley.
4. Attach the engine fixing.
5. Dismount :
 - right engine suspension.
 - expansion tank and move it aside.
 - timing belt cover.

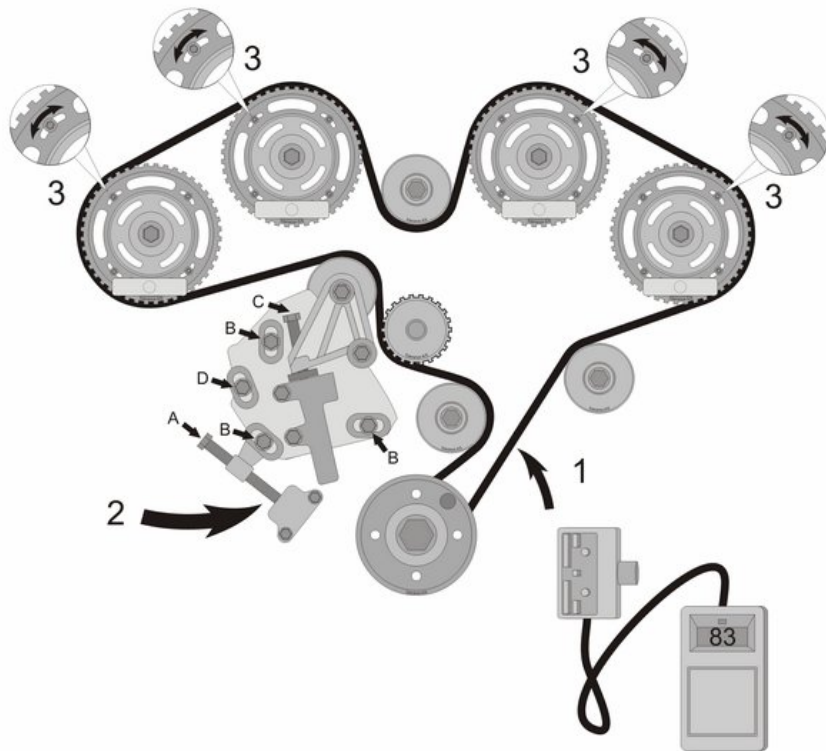
Dismount 2



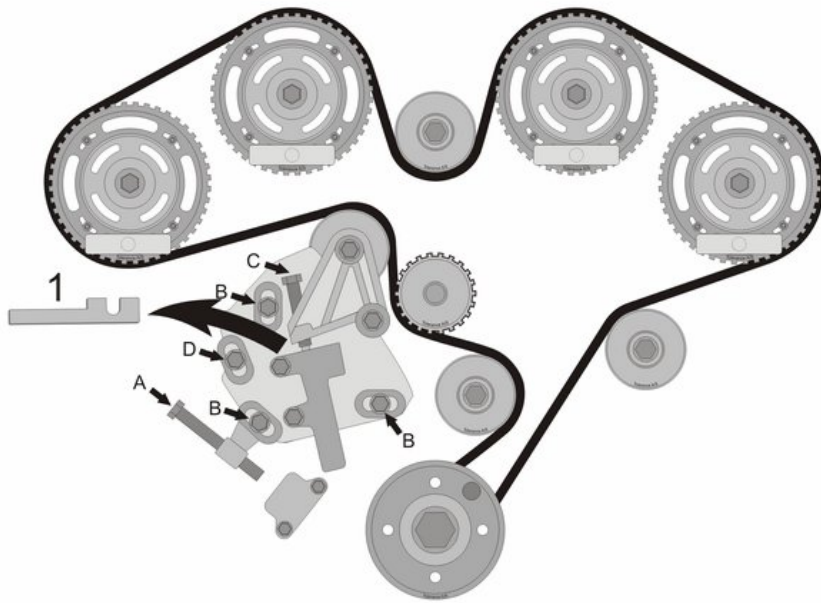
1. Turn the engine clockwise to the marks.
2. Fix :
 - locking tool "0187-A" to crank gear.
 - locking tool "0187-B" through the camshaft gear.
3. Turn bolt "A" to dead stop.
4. The spacer bolt "D" must remain fully tightened.
5. Loosen the bolt "C".
6. Mount distance piece "0187-EZ" by the belt tensioner.
7. Tighten the bolt "C" until the tool "0187-EZ" is fully tightened.
8. Loosen the bolt "A".
9. Dismount timing belt.
10. Check/change packing blocks, water pumps, turning wheels and belt tensioners.

Mounting 1

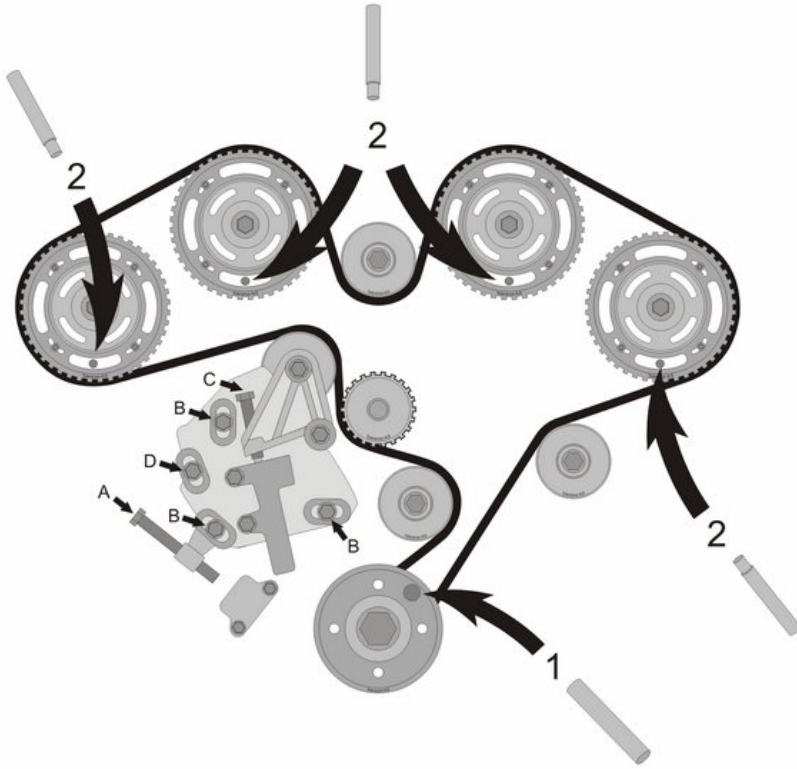
1. Mount timing belt on crank pulley.
2. Fix tool "0187-J" above tooth belt so it is attached to crank.
3. Loosen the 4 small cam wheel bolts so the cam gear can turn around the camshaft.
4. Turn camshaft clockwise to stop.
5. Mount timing belt.

Mounting 2

1. Fix the tooth belt tension instrument between camshaft and crankshaft.
2. Operate the dynamic tensioner using the bolt "A" until 83 SEEM units are obtained.
3. Check that cam bolts are positioned centrally in their holes.
4. Tighten :
 - the bolts "B" 10 Nm.
 - the small cam wheel bolts 10Nm.
5. Dismount all locking tools.
6. Turn crankshaft 720°.

Mounting 3

1. Fix :
 - locking tool "0187-A" to crank gear.
 - locking tool "0187-B" through the camshaft gear.
2. Loosen :
 - the bolt "C".
 - the bolt "C".
3. Wait, minimum in one minute, for the damper to stabilize.
4. Remove the distance piece "0187-EZ" from the belt tensioner.
5. Tighten the bolts "B" 25Nm.
6. Loosen the bolt "A".
7. Dismount all locking tools.
8. Turn crankshaft 720°.

Mounting 4

1. Fix locking tool "0187-A" to crank gear.
2. Check :
 - that the small bolts are positioned centrally in their holes.
 - that the camshafts checking rod "0187-CZ" engages freely in the cylinder heads.
3. The remainder is assembled in opposite order.