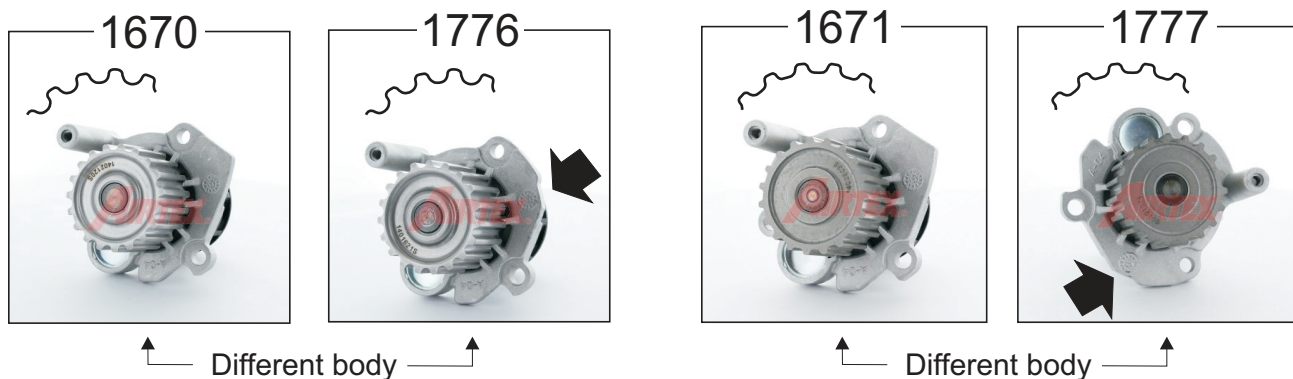


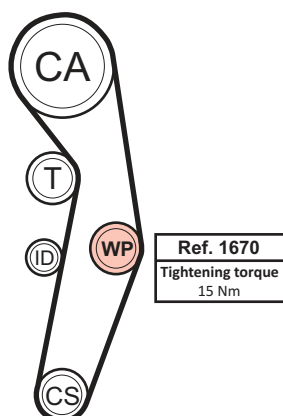
TECHNICAL INFORMATION

Part Number:

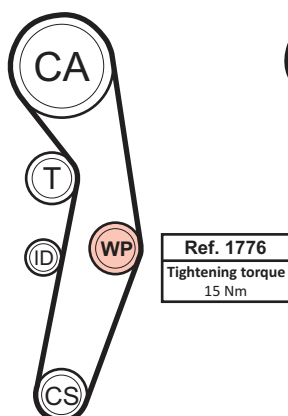


Timing Belt

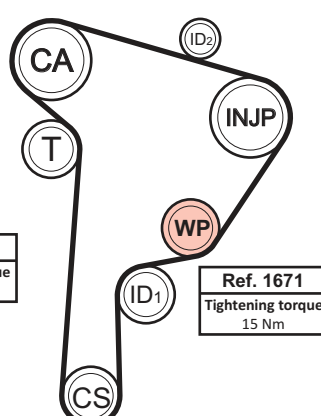
Seat Ibiza V
1.9 TDi 105 CV
BLS engine



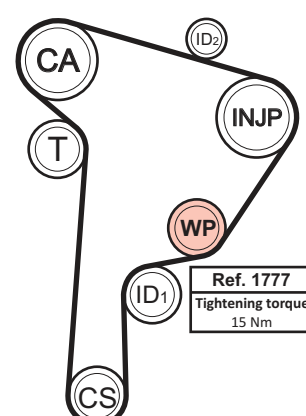
Skoda Fabia
1.9 TDi 100 CV
ATD engine



Volkswagen Polo
1.9 SDi 64 CV
ASY engine
Chassis 9N2100001->



Volkswagen Polo
1.9 SDi 64 CV
ASY engine
Chassis ->9N2100000



How to Remove the Timing Belt and Change Water Pump

Timing Belt replacement interval: every 90.000 or 150.000 km, depending on the vehicle.

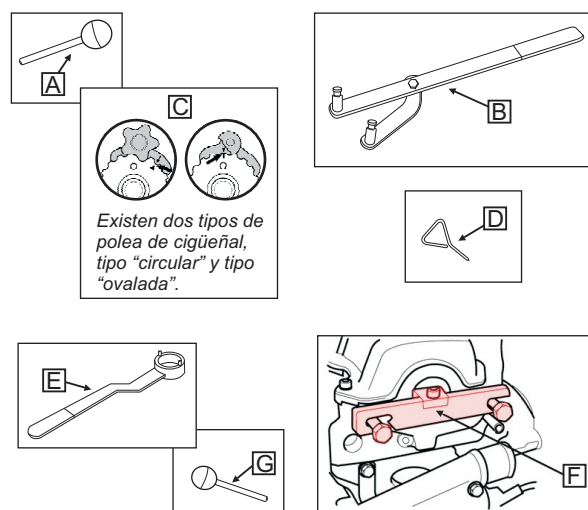
Specific tools:

TDi engines

- Lock pin for the camshaft (A).
- Holding tool for the camshaft pulley (B).
- Specific tool to lock the crankshaft (C).
- Lock pin for the tensioner (D).
- Specific wrench for the tensioner (E).

ASY engine code

- Specific tool to lock camshaft (F).
- Lock pin for the injection pump (G).
- Specific wrench for the tensioner (E).
- Holding tool for the camshaft pulley (B).
- Extractor for the camshaft pulley.



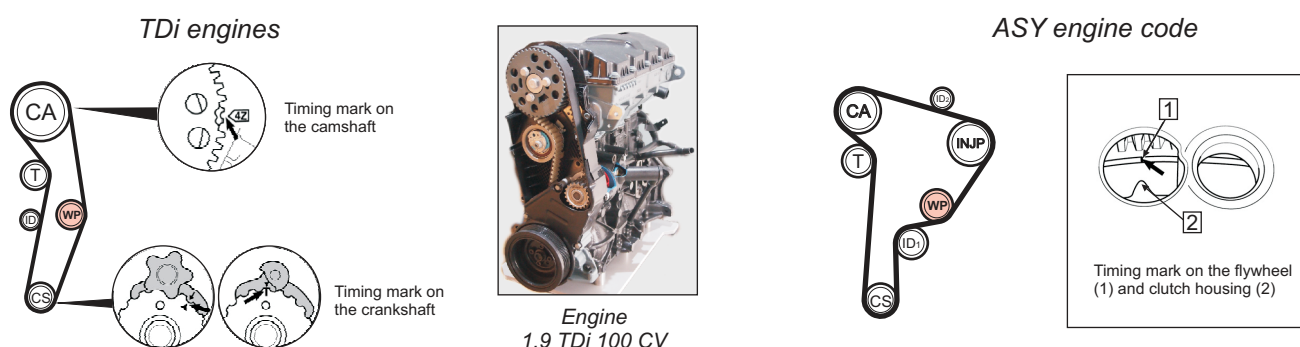
TECHNICAL INFORMATION

Disassembly

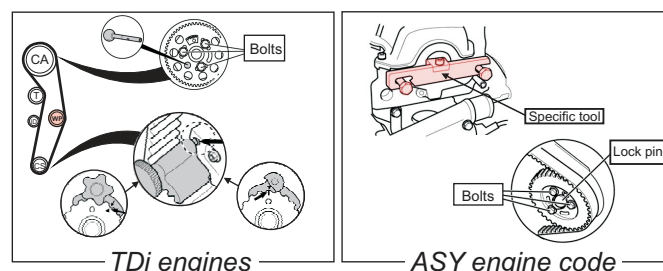
The first steps, the most common for vehicles, are to disconnect the battery and dismount all necessary components to gain access to timing belt, for example, the right front wheel, wheel arch, auxiliary belt, crankshaft pulley, motor bracket, plastic covers,...

Each vehicle may have fewer or more components to dismount, which are specified in the vehicle repair manuals.

- 1 The next step is to drain the coolant circuit and turn the crankshaft until cylinder n°1 is positioned at TDC.

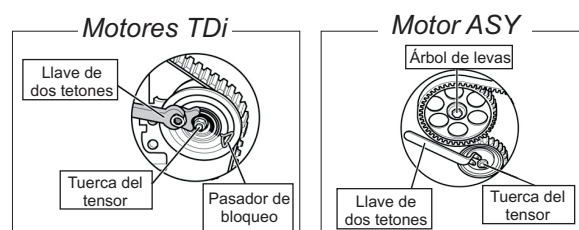


- 2 **TDi engines:** Lock the camshaft and crankshaft.
ASY engine code: Remove the vacuum pump. Lock the camshaft, for the back, and the injection pump.



- 3 **TDi engines:** Loosen the camshaft pulley bolts.
ASY engine code: Loosen injection pump pulley bolts.

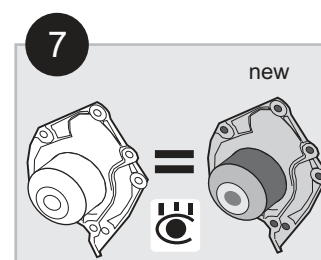
- 4 Loosen tensioner nut. Then, turn the tensioner counterclockwise with the specific wrench to release tension of timing belt.
TDi engines: Place the tensioner lock pin, turn the tensioner clockwise and tighten tensioner nut.
ASY engine code: Tighten tensioner nut by hand.



- 5 Remove timing belt and water pump.

AIRTEX® RECOMMENDS:

- 6 Clean the coolant circuit and replace all belt drive components.



TECHNICAL INFORMATION

Assembly

- ① Fit Airtex water pump, to the tightening torque (15 Nm).
- ② Fit the tensioner correctly, as show the image [FIG. 1].
- ③ *ASY engine code*: Hold camshaft pulley with the tool (1) [FIG. 2] and loosen the bolt (2) [FIG. 2]. Then, remove camshaft pulley with the extractor.
- ④ *TDi engines*: Turn camshaft pulley completely clockwise.
ASY engine code: Put the injection pump pulley in the middle of the slotted holes.

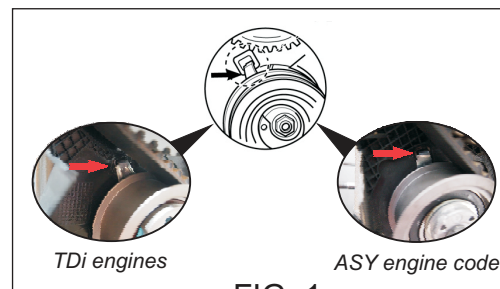


FIG. 1

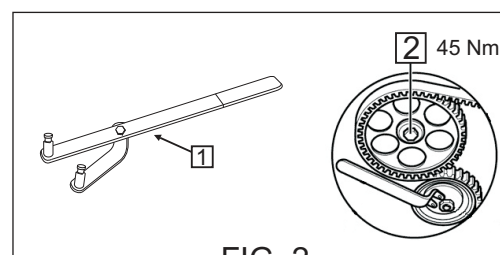


FIG. 2

- ⑤ Mount timing belt starting at crankshaft pulley.
- ⑥ *ASY engine code*: Fit the camshaft pulley at belt; then, fit the camshaft pulley with the belt at camshaft. After, fit camshaft pulley bolt and tighten by hand.
- ⑦ *TDi engines*: Turn the tensioner counterclockwise with the specific wrench (1) [FIG. 3] or allen key, until your able to remove lock pin (2) [FIG. 3].

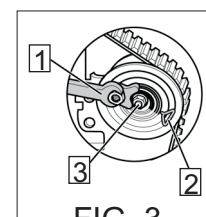


FIG. 3

- ⑧ *TDi engines*: Turn the tensioner clockwise with the specific wrench (1) [FIG. 3] or allen key, until the mobile indicator is aligned with the groove [FIG. 4]. Then, tighten the tensioner nut to the tightening torque (20 Nm + 45°).
ASY engine code: Turn the tensioner clockwise with the specific wrench, until the indicator is aligned with the groove [FIG. 5]. Then, tighten the tensioner nut to the tightening torque (25 Nm).

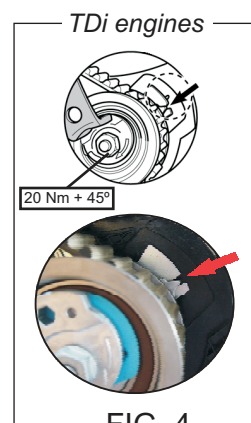


FIG. 4

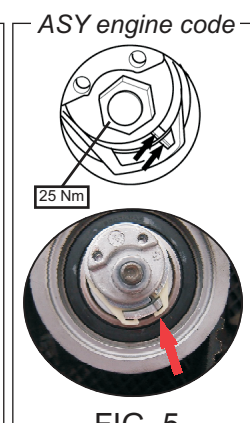


FIG. 5

- ⑨ *TDi engines*: Remove camshaft lock pin and tighten the camshaft bolts (25 Nm) [FIG. 6].
ASY engine code: Hold camshaft pulley with the tool (1) [FIG. 2] and tighten the bolt (2) [FIG. 2] (45 Nm). Tighten injection pump pulley bolts (25 Nm).

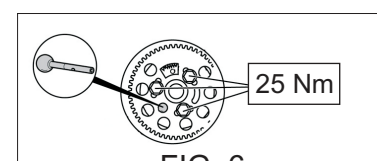


FIG. 6

- ⑩ Remove specific tools and lock pins, then rotate the crankshaft turning it 4 times. To make sure the correct assembly, check the timing marks are aligned and fit the lock pins and timing specific tools again. Check also that the mobile indicator of the tensioner is aligned with the groove.

TECHNICAL INFORMATION

Assembly (continued)

- ⑪ Repeat the assembly process if the timing marks are not aligned or it's not possible to mount the timing specific tools.
- ⑫ Repeat the tensioning process if the mobile indicator of the tensioner is not aligned with the groove.
- ⑬ Proceed with the rest of the assembly.

Please Note: Fill up the cooling circuit with a suitable coolant and antifreeze before switching on the engine.

AIRTEX® RECOMMENDS:

