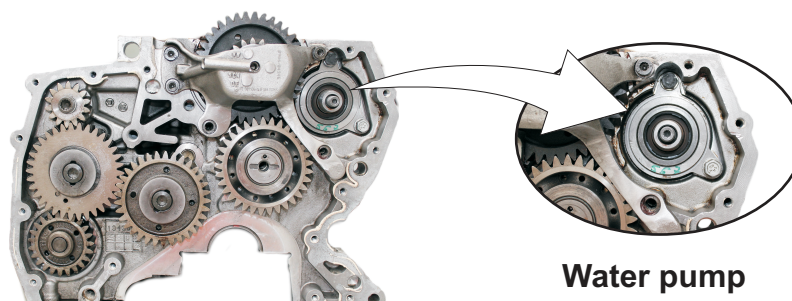
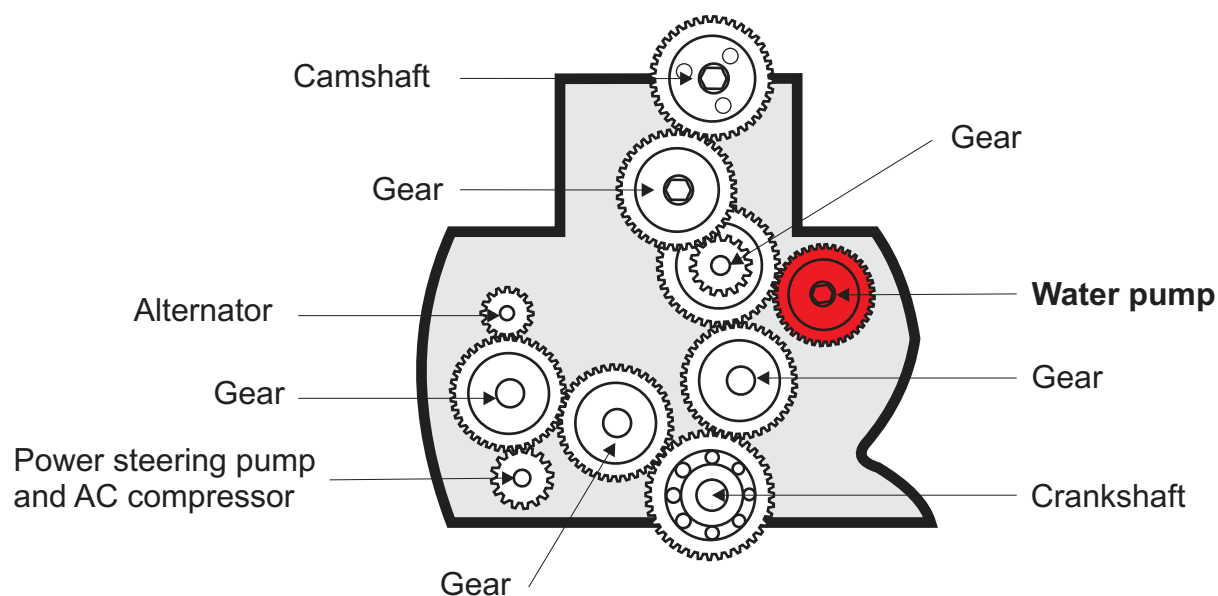


TECHNICAL INFORMATION SHEET**PART NUMBER: 1753R****Volkswagen Touareg - 2.5 TDi engine (BAC)***Timing gears diagram***Water pump****Water pump Change***Specific tools:*

- Crankshaft alignment tool.
- Crankshaft locking tool.
- Camshaft alignment tool.
- Extractor for gear of the water pump.
- Extractor for the water pump.

Disassembly

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

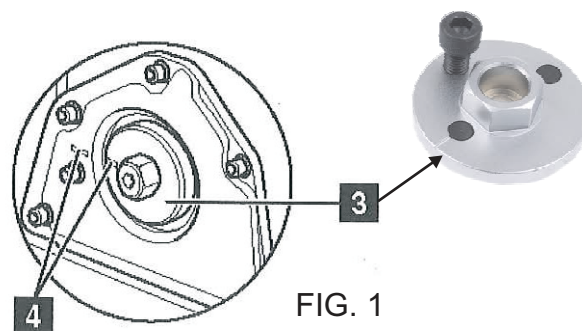
Each vehicle may have fewer or more components to dismount, which are specified in the vehicle repair manuals.

TECHNICAL INFORMATION SHEET

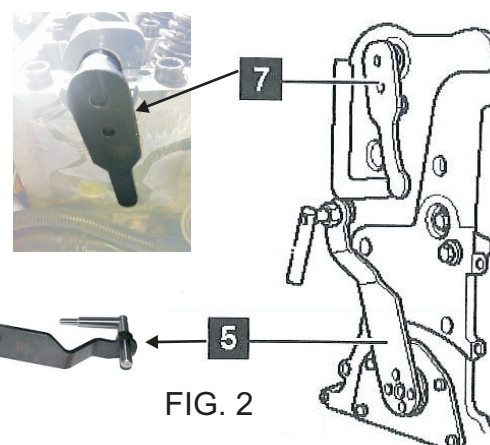
Disassembly (continuation)

This particular vehicle has timing gears located on the rear of the engine. It is necessary to disassemble the gearbox.

- 1 The next step is to drain the cooling circuit and the oil.
- 2 Remove the covers of crankshaft and camshaft.
- 3 Next, mount the crankshaft alignment tool (3) [FIG. 1] and then, turn the crankshaft until the reference marks (4) [FIG. 1] are aligned.



- 4 Remove the crankshaft alignment tool (3). Then, mount the crankshaft locking tool (5) [FIG. 2] and the camshaft alignment tool (7) [FIG. 2] on the front of the engine.



- 5 Make sure the tools are mounted correctly. If it's not, adjust the camshaft position as explained in the vehicle repair manual.
- 6 Remove the water pump cover.
- 7 Lock the water pump shaft with a triple square key to loosen the gear nut of the water pump.
- 8 Remove the water pump gear with the extractor [FIG. 4].
- 9 Loosen the water pump bolts and disassemble the water pump with the extractor [FIG. 5 and 6].

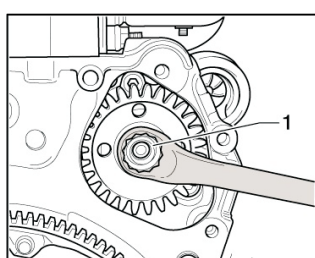


FIG. 3

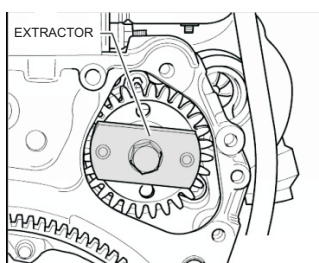


FIG. 4

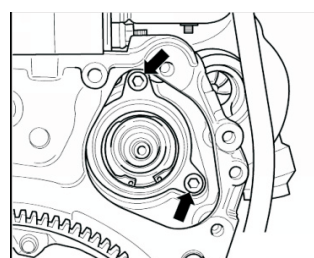


FIG. 5

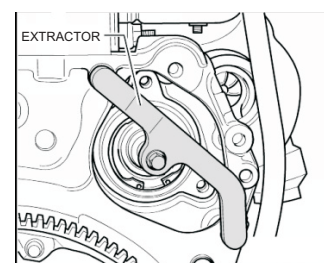
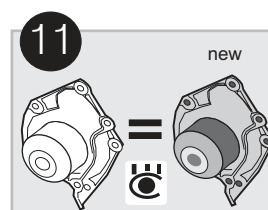


FIG. 6

AIRTEX RECOMMENDS:

- 10 Clean the coolant circuit.



TECHNICAL INFORMATION SHEET**Assembly**

The Airtex water pump has a grey 'o'ring and a black 'o'ring that must be mounted as shown in the picture [FIG. 7].

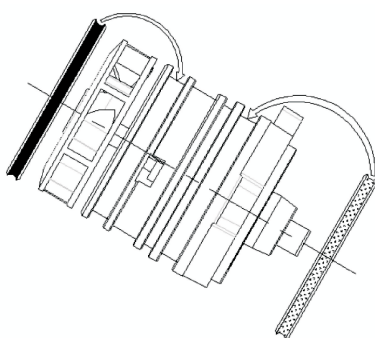


FIG. 7



- ① Fit the water pump.
- ② Fit the water pump gear and tighten the nut (84 Nm).
- ③ Remove the specific tools and rotate the crankshaft turning it 4 times.
- ④ Fit the specific tools again to check the correct assembly.
- ⑤ Fit the water pump cover.
- ⑥ Add new oil to the car at the fill hole.
- ⑦ Proceed with the rest of the assembly.

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

AIRTEX. RECOMMENDS:

