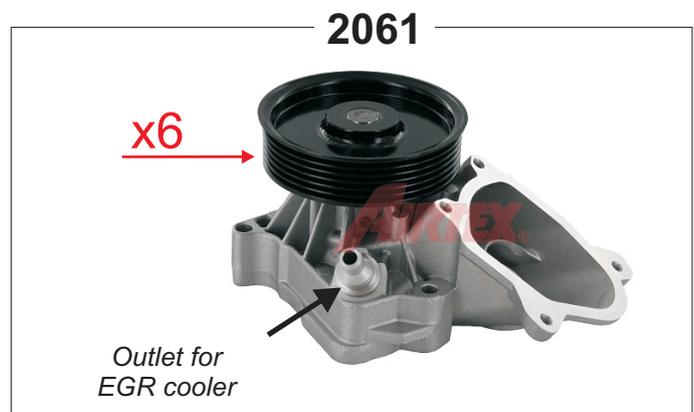


TECHNICAL INFORMATION

REFERENCES:

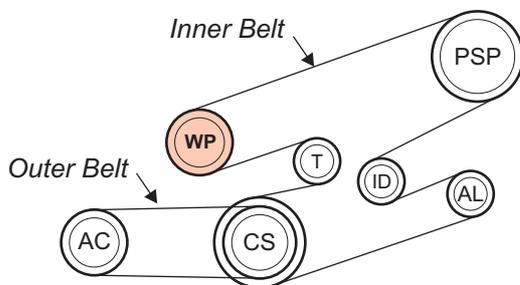


BMW 3 Series (E90,E91,E92), X3 (E83)
335 D, XDrive 30 D, 3.0 D
M57 D30 (306D5/3) engines
-> 03/10



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04/10 ->

Auxiliary Belts



CS: Crankshaft
AC: AC Compressor
WP: Water Pump
AL: Alternator
PSP: Power Steering Pump
T: Tensioner
ID: Idler

FIG. 1



Water Pump

How to remove the Auxiliary Belts and Change Water Pump:

Specific tools:

- Assembly tools for the outer belt (1 and 2) [FIG. 2].

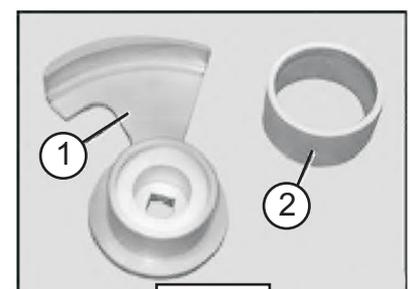


FIG. 2

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 auxiliary belts, for example, the right front wheel, wheel arch, 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.
- ② Pull out the outer belt while the crankshaft is rotate clockwise to remove the outer belt [FIG. 3].
- ③ Turn the tensioner anticlockwise to remove the inner belt (1) [FIG. 4].
- ④ Remove the water pump.

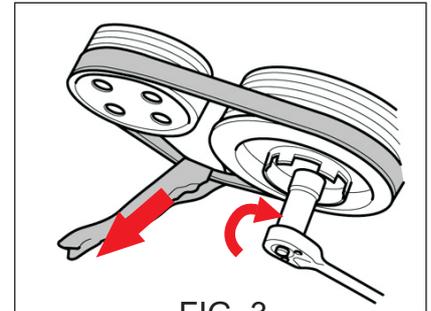


FIG. 3

AIRTEX RECOMMENDS:

- ⑤ Clean the coolant circuit and replace the tensioner, the idler and the auxiliary belts.

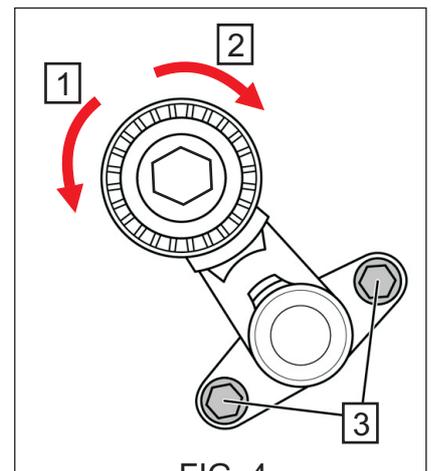
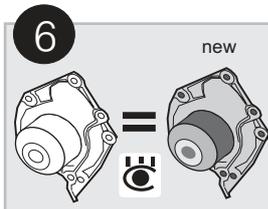


FIG. 4

Assembly

- ① Fit Airtex water pump, to the tightening torque (13 Nm).
- ② Fit the tensioner and tighten the bolts (3) [FIG. 4]. Then, turn the tensioner clockwise to fit the inner belt (1) [FIG. 4].
- ③ Release the tensioner for the inner belt to be tensioned (2) [FIG. 4].
- ④ Fit the specific tools (1) [FIG. 5]. Then, fit the outer belt in the AC compressor pulley and in the specific tool [FIG. 5].
- ⑤ Turn the crankshaft clockwise until the belt is correctly positioned (2) [FIG. 5]. Then, remove the specific tools (1) [FIG. 5].
- ⑥ Proceed with the rest of the assembly.

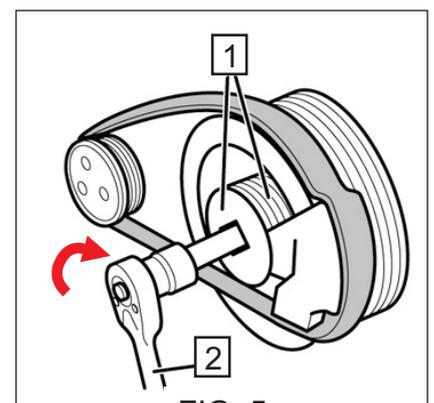


FIG. 5

AIRTEX RECOMMENDS:

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

