2019-2026 Volkswagen Jetta - Thermostat Replacement

2019-2026 Volkswagen Jetta | Expert | 5-7 hours | $290 DIY

TOOLS

T25, T30 and T40 Torx bits and driver 10 mm hex/Allen bit and driver Hose clamp pliers or adjustable grips Flat screwdriver Torque wrench Drain tub Vacuum coolant filler (essential for this engine) Jack and axle stands Scouring pad Rags and funnel

PARTS

Water pump and thermostat assembly, 1.4L TSI (complete unit with gasket) 04E121600CS $243.00
Water pump drive belt, 1.4L TSI 04E121605E $21.00
G13 coolant, 1 gallon (50/50 ready to use) $26.00

STEPS

1. **Confirm your engine and diagnosis - This guide covers the 1.4L TSI (engine codes DGXA/DJXA,** 2019-2021 Jetta), where the thermostat is built into the coolant pump module, so a thermostat job means replacing the whole pump/thermostat uni...
2. **Let the engine cool and disconnect the battery - Work on a fully cold engine: never open the** cooling system hot. Disconnect the negative battery terminal and set it aside so it cannot touch the post.
3. **Raise the car and drain the coolant - Raise the front, support it on axle stands, and remove the** undertray. Place a drain tub under the radiator and drain the coolant from the lower-right radiator connector: pry out the metal retaining c...
4. **Clear access to the pump module - Remove the engine cover. The pump/thermostat unit sits on the** gearbox side of the engine. Remove the turbo intake pipe elbow and the cover over the pump drive gear (2x T30 screws). Release the clips...
5. **Remove the old pump/thermostat unit - Remove the 5x T30 screws: 2 on top, 2 at the ends, and 1** below. Pull the unit free. Remove the old gasket and clean the mating surface with a scouring pad until the metal is clean and free of old gas...
6. **Fit the new unit and new drive belt - Fit the new belt onto the cam gear and unit, seat the unit** with its new gasket. Tighten the 5 bolts 1 to 5 to 12 Nm (9 ft-lb). Tension the belt per 30 Nm (22 ft-lb) and confirm the belt sits on both...
7. **Refit pipes, intake, and undertray - Reconnect the 5 coolant pipes, replacing any O-rings that** came with the new unit, and refit the drive-gear cover, turbo intake pipe elbow, engine cover, and undertray. Double-check every pipe clip is...
8. **Vacuum-fill the cooling system - A vacuum coolant filler is essential: pull 0.5-0.6 bar of** vacuum. Do not fill the reservoir and start the engine with the cap off: one thermostat opens around 103-105 C, so an open-cap fill can boil...
9. **Warm up, check for leaks, and recheck the level - Reconnect the battery, start the engine, and** let it idle until the thermostat opens and the cooling fan runs. Inspect the unit, pipes, and radiator connector for leaks, then let the engine cool fully...

TORQUE

Water pump/thermostat housing bolts (5x T30) 12 Nm Nm 9 ft-lb ft-lbs
Coolant pump drive belt tensioner bolt 30 Nm Nm 22 ft-lb ft-lbs

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