2015-2018 Volkswagen Jetta | Advanced | 4-6 hours | $350 DIY

TOOLS

Socket Extensions 6mm Wrench 8mm Wrench 10mm Wrench 3/8 Inch Drive Ratchet T25 Torx Socket 6mm Allen Wrench 1/4 Inch Ratchet Drain Pan Floor Jack Jack Stands

PARTS

Timing Belt 03L109119M $100.00
Water Pump 04L121011N $150.00
Timing Belt Tensioner 04L109243S $80.00
Coolant G013A8J1G $20.00
Water pump gasket or sealant

STEPS

1. **Disconnect the battery and drain the cooling system - Work on a cold engine. Disconnect** the negative battery cable. Drain the coolant into a pan. Timing-belt service usually includes the water pump - plan to replace the pump, tensioner, and idlers as a kit. Wear gloves and eye protection.
2. **Set engine to TDC and lock the timing - Remove belts, pulleys, and timing covers for** access. Rotate the engine by hand to Top Dead Center on cylinder 1 and install the factory cam/crank locking pins or marks for this engine. Never guess at timing marks.
3. **Relieve tension and remove the old belt and pump - Release the timing-belt tensioner,** slide the belt off the sprockets, and remove the water pump with its bolts (note bolt lengths). Clean all gasket surfaces carefully - do not gouge aluminum mating faces.
4. **Install the new water pump and timing components - Install the new water pump with the** specified gasket or sealant and torque bolts evenly. Fit the new tensioner and idlers. Route the new timing belt per the diagram with correct tooth engagement on crank and cam sprockets.
5. **Set tension, verify marks, and reassemble - Apply tensioner preload per the procedure,** then double-check that all timing marks/locks still align. Rotate the engine by hand at least two full crank revolutions and reconfirm marks before refitting covers, pulleys, and accessory belts.
6. **Refill coolant, start, and verify - Reconnect the battery, refill and bleed the cooling** system, then start and listen for unusual timing noise. Confirm stable temperature, no leaks at the pump, and normal oil pressure. Recheck the level after cooldown - if the marks won’t...

TORQUE

Tensioner bolt 25 Nm 18 ft-lbs
Camshaft gear bolts 90 Nm 66 ft-lbs
Water pump bolts 15 Nm 11 ft-lbs

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