2010-2014 Volkswagen Golf | Advanced | 4-6 hours | $390 DIY

TOOLS

10mm Socket Flathead Screwdriver Jack Stands Torque Wrench T25 Torx Bit T30 Torx Bit Engine Support Bar Camshaft Locking Tool Crankshaft Locking Tool Timing Belt Tensioner Tool

PARTS

Timing Belt 03L109119F $100.00
Water Pump 038 121 011 G $150.00
Timing Belt Tensioner 03L109243E $80.00
Idler Pulley 038 109 244 D $60.00
Water pump gasket or sealant
Coolant

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...

ezcarfix.com