2007-2012 Hyundai Santa Fe - Timing Belt

2007-2012 Hyundai Santa Fe | Advanced | 4-6 hours | $480 DIY

TOOLS

16mm Wrench Socket Set Torque Wrench Screwdrivers Pry Bar Jack and Jack Stands Timing Belt Tensioner Tool Crankshaft Pulley Holder Harmonic Balancer Puller Engine Support Bar

PARTS

Timing Belt Kit (TBK315WP) TBK315WP $100.00
Timing Belt Tensioner $150.00
Idler Pulley $80.00
Water Pump WP315WP $120.00
Crankshaft Seal CS315WP $30.00
Engine coolant (correct type)

STEPS

1. **Disconnect the battery and drain the cooling system - Work only on a cold engine.** Disconnect the negative battery cable. Place a drain pan and drain coolant if the water pump is serviced with the timing belt. This is a precision job - have the service-manual timing procedure and locking too...
2. **Set the engine to TDC and lock the timing - Remove covers, belts, and accessories as** required for access. Rotate the crankshaft to TDC for cylinder 1 and install crank/cam locking tools per the service procedure. Confirm all timing marks align before loosening the tensioner.
3. **Relieve tension and remove the old belt - Release the timing-belt tensioner, then** carefully remove the old belt without rotating the cams or crank. If marks move, stop and re-establish TDC before continuing. Inspect idlers, tensioner, and seals for leakage or play.
4. **Install the new water pump and timing components - Replace the water pump, idlers, and** tensioner if included in the kit - many failures recur if only the belt is changed. Clean sealing surfaces, install new gaskets/O-rings as specified, and torque fasteners evenly.
5. **Set tension, verify marks, and reassemble - Install the new timing belt with correct** routing and tooth engagement. Set tensioner preload per the manual, then rotate the engine by hand at least two full crank revolutions and re-check all timing marks. Refit covers, accessories, and t...
6. **Refill coolant, start, and verify - Refill with the correct coolant, bleed air, and** reconnect the battery. Start the engine and listen for unusual noise. Confirm stable idle, no coolant leaks, and no immediate timing-related codes before a careful road test.

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