2009-2015 Honda Pilot - Timing Belt Replacement

2009-2015 Honda Pilot | Advanced | 3-4 hours | $392 DIY

TOOLS

12mm Socket 14mm Socket 17mm Wrench
19mm Socket 10mm Socket Torque Wrench
Honda Crank Holding Tool Jack Stands
Floor Jack Pry Bar

PARTS

Timing Belt Kit with Water Pump TCKWP329 $329.95
Timing Belt Tensioner 14520-RCA-A01 $217.00
Water Pump 19200-RDV-J01 $150.00
Crankshaft Seal 91212-P8A-003 $25.00
Engine coolant (correct type)
Timing Belt

STEPS

1. **Disconnect the battery and drain the cooling system - Work only on a cold engine.** Disconnect the negative battery cable on the Honda Pilot. Place a drain pan and drain coolant if the water pump is serviced with the timing belt.
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 Honda Pilot procedure. Confirm all timing marks align before loosening the tensioner.
3. **Relieve tension and remove the old belt - On the Honda Pilot: 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 p...
4. **Install the new water pump and timing components - On the Honda Pilot: 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 on the Honda Pilot.
6. **Refill coolant, start, and verify - Refill with the correct coolant, bleed air, and** reconnect the battery. Start the Honda Pilot 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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