2001-2005 Volkswagen Passat Camshaft position sensor Replacement

Replacing the camshaft position sensor on the Volkswagen Passat B5.5 1.8 turbo engine takes about 15 minutes.

Written By: Nick Ivanov

This document was generated on 2020-12-09 09:23:13 PM (MST).

TOOLS:

- 3/8" Drive Ratchet (1)
- 10mm Socket (1)
- 10mm Wrench (1)
- 6.5mm flathead screwdriver (1)

PARTS:

- Bosch camshaft position sensor p/n 0232101024 (1)

This document was generated on 2020-12-09 09:23:13 PM (MST).

www.iFixit.com

Step 1 — Camshaft position sensor

- The camshaft position sensor tells the engine control unit the angle of the camshaft rotation. This is necessary to determine the exact timing of fuel injection and ignition. The failed sensor may cause a number of problems, from poor fuel economy to the engine failing to start.

- In my case the symptom was that the engine would only start after 3-4 attempts of hard, determined cranking. Of course, the malfunction indicator light was on. To confirm that the camshaft position sensor is indeed at fault you will need an OBD2 fault code reader or a similar diagnostic tool.

- The fault codes indicating the camshaft position sensor malfunction are in the range of P0340-P0349 -- for me it was P0343.

- I used my Vgate Scan Bluetooth-connected scan tool and the Car Gauge Pro Android app. The OBD2 tool plugs into the diagnostic socket, which is located under the driver side of the dashboard, roughly above the driver's left knee.

Step 2
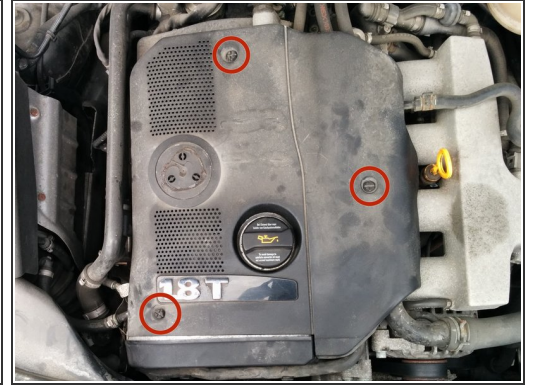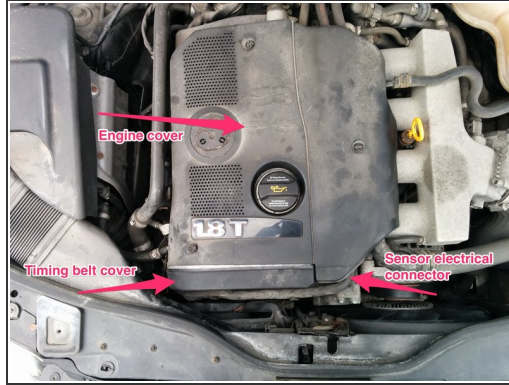
- Once you have confirmed that the camshaft position sensor is at fault and received the replacement part, it's time to get your hands dirty.

- The second photo shows the location of various components.

- First, remove the plastic engine cover. Using a flat-head screwdriver (or a coin), turn each of the three plastic screws 90° (1/4 turn) counterclockwise until they pop up. Lift the cover.

- ⭐ When reinstalling the engine cover, do not turn the screws clockwise, but simply push them down until they click in place.

Step 3
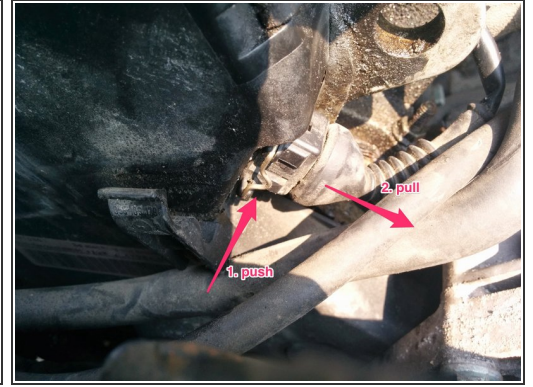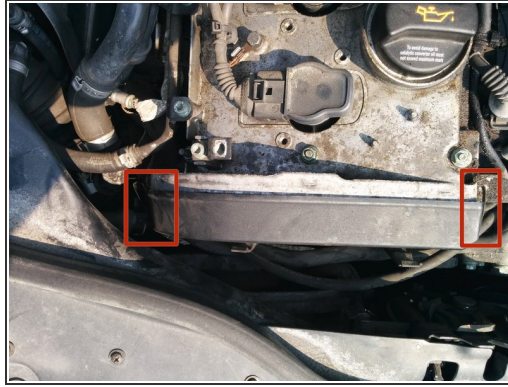
- You need to release the timing belt cover in order to access the sensor. First, free the two rubber hoses that are held in place by the clips on the cover.

- Undo two metal clips on the sides of the cover, using a flathead screwdriver.

- Detach the sensor electrical connector: press the metal bracket with your thumb and gently pull the connector to the right.

Step 4
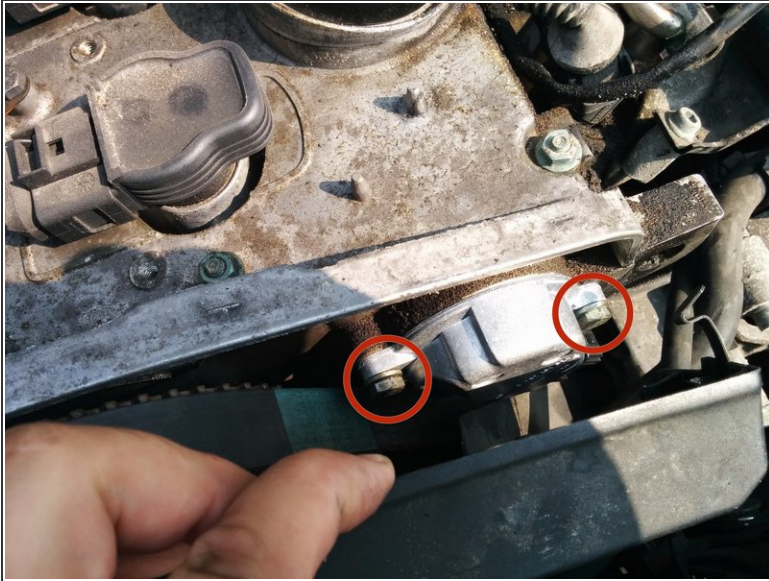
- Now you should be able to pull the timing belt cover far enough towards the front of the car to access the sensor.

- Using the 10 mm nut driver remove the two screws holding the sensor in place. Be careful not to drop the screws -- you'll probably need to dismantle half of the engine to reach them, and leaving them loose near the timing belt is not a good idea.

- Screw the replacement sensor in place, reattach the electrical connector, and replace the covers. Don't forget to put the rubber hoses back under the clips on the belt cover.

- When attaching the engine cover, do not turn the screws -- just push them down until they click into place.

To put things back together, follow these instructions in reverse order. When installing the engine cover, do not turn the screws clockwise, but simply push them down until they click in place.

This document was generated on 2020-12-09 09:23:13 PM (MST).