

Volkswagen Throttle Position Sensor Renewal

All TDI Models

Engine Code(s):

Throttle Position sensor, removing, installing and adjusting

Special tools, testers and auxiliary items
VAG 1551/1552 Scan Tool with VAG 1551/3 adaptor cable
iScan or VDSPro scan tools

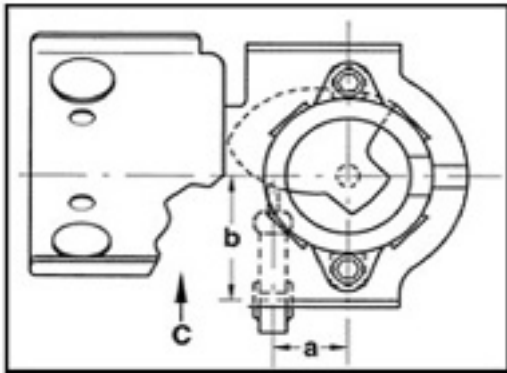
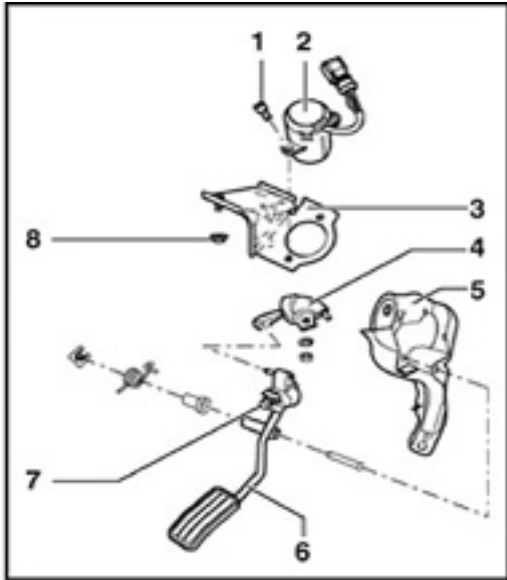
Box wrench e.g. Hazet 4561

Removing:

- Remove dash panel and pedal cluster cover
- Remove accelerator pedal -6-
- Remove Throttle Position sensor -2- with console -3-, by removing both mounting nuts with 1/4" drive tools
- Remove cable cam -4- and unscrew sensor console

Installing:

- Secure Throttle Position sensor to console
- Attach cable cam to sensor so that dimension given are present when facing forward



Dimensions are as follows:

Attach cable cam to sensor so that dimensions given are present when facing forwards:

a = 22 0.05 mm

b = 41 0.05 mm

c = Forward

The cable cam eye must be parallel to the forward direction.

- Install sensor with console
- Install throttle cable and fit the cable cam eye to the pin on the accelerator pedal

Adjusting

- Connect VAG 1551/1552 Scan Tool
- Switch ON ignition
 - Press 0 and 1 buttons to select address word 01 "engine electronics"
 - Using iScan: Volkswagen > Engine > Engine

Press 0 and 8 buttons to select function 08 "Read measuring value block"
Press Q button to enter input

With iScan: Volkswagen > Engine > Engine > Data Stream > Data Block 002

Display with VAG 1552

Input display group number

- Press 002 buttons to select display group 002
- Press Q button to enter input

- Check Throttle Position in Data Field 002 (accelerator pedal must not be depressed)

Specification: 0.0 %

- Fully (slowly) depress accelerator pedal while observing Data Field 002
Throttle Position value must increase continuously and then display 100% just before the Wide Open Throttle stop

- *If necessary, adjust Throttle Position as follows:*

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- Turn adjustment screw -7- until Closed Throttle Position display shows:
0.0%

Depress accelerator pedal to point just before Wide Open Throttle position
display must show 100 %

Erase DTC memory

Re-create readiness code

Read Data Block 002

0 rpm 0.0 % 0 1 0 18.4 C

Read measuring value block 002

0 rpm 100 % 0 0 0 18.4 C