

Closed Throttle Position (CTP) switch, checking and adjusting

Notes:

- ◆ *To functionally check the Closed Throttle Position (CTP) switch ⇒ Repair Group 01, Read measuring value block, display group 002, display field 4.*
- ◆ *The Closed Throttle Position (CTP) switch is located in the Throttle Position (TP) sensor assembly.*
- ◆ *Component locations ⇒ [page 24-1](#) .*
- ◆ *If, while checking or adjusting the Closed Throttle Position (CTP) switch, the noise deadener is removed; make sure during re-assembly that there is a tight fit to the throttle body to avoid the possibility of an intake air leak.*
- ◆ *For safety, make sure that the Mass Air Flow (MAF) sensor output voltage is correct ⇒ [page 01-150](#) , "Basic Setting" function 04, display group 002, display field 2.*

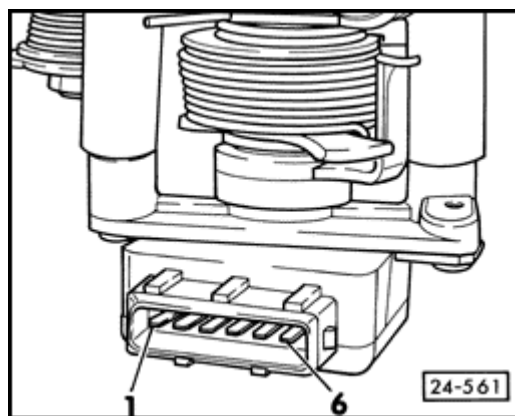
Requirements

- Accelerator pedal cable adjustment OK:

⇒ [Repair Manual, 2.8 Liter V6 2V Engine
Mechanical, Engine Code\(s\): AFC, Repair Group
20](#)

Electrical check

- Remove intake air sound absorber.
- Disconnect harness connector at throttle body.



A

- Switch multimeter (Fluke 83 or equivalent) to measure resistance (Ω) and connect between terminals 4 and 6 using jumper wires from connector test kit VW 1594.

Specified value: 0 ohms (continuity)

- Open throttle slightly.

Specified value: $\infty \Omega$ (no continuity)

If the specified value is not obtained by opening the throttle slightly, or if the specified value is obtained only by moving the throttle:

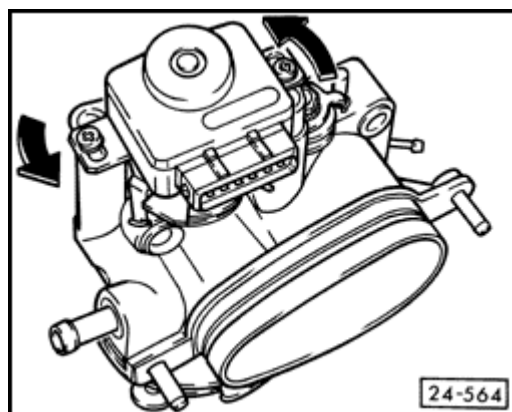
- Adjust CTP switch \Rightarrow [page 24-75](#) .

If, after adjusting the CTP switch, it is still not possible to obtain the specified function:

- Replace throttle position sensor assembly.

Adjusting

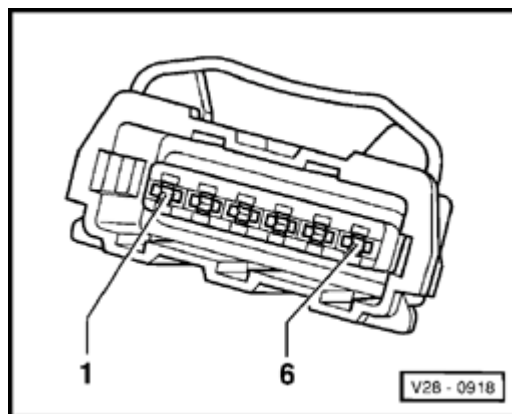
- Remove throttle body.
- Loosen two throttle position sensor mounting screws.
- A
 - Turn throttle position sensor in direction shown (arrows), without moving throttle valve shaft, until stop can be felt.
 - Tighten throttle position sensor in this position.
 - Check CTP switch again ⇒ [page 24-74](#) .
 - Re-install throttle body and adjust accelerator pedal cable



⇒ [Repair Manual, 2.8 Liter V6 2V Engine Mechanical, Engine Code\(s\): AFC, Repair Group 20](#)

Checking wiring between CTP switch and ECM

- A
 - Terminal assignments for throttle position sensor connector.
 - Connect VAG 1598/19 test box to ECM harness connector ⇒ [page 01-255](#) .
 - Check wiring for continuity or short to B+ between throttle position sensor connector terminal 4 (GND) and test box socket D12.
- Specified value: max. 1 ohm (Ω)

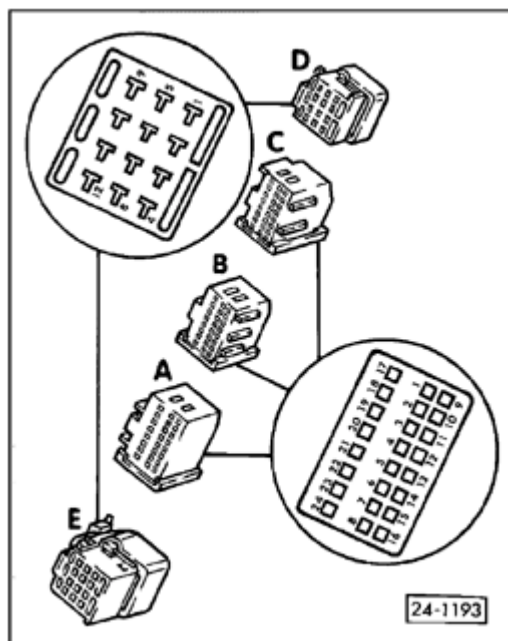


- Check wiring for continuity or short to Ground (GND) between throttle position sensor connector terminal 6 (signal) and test box socket A4.

Specified value: max. 1 Ω

If the specified value is not obtained:

- A - Determine open or short circuit in wiring using wiring diagram; repair as necessary.



6-pin TP sensor connector terminal	ECM connector A terminal
6	A4
4	Intake manifold Ground (GND)

Note:

If it becomes necessary to repair or replace any of the throttle position sensor electrical terminals, ONLY replace with gold-plated terminals.