
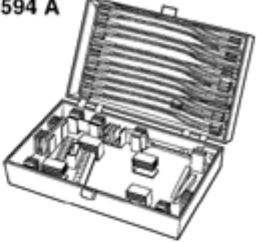



Audi > C5 > 1998-2005
3.0 Liter V6 5V Generic Scan Tool Engine Code(s): AVK
24 - Components, Checking

.

Engine Speed Sensor, Checking

<p>V.A.G 1526 A</p> 	<p>V.A.G 1594 A</p> 
<p>V.A.G 1598/31</p> 	
	<p>G24-0020</p>

Special tools, testers and auxiliary items required

- * multimeter VAG1526A
- * connector test kit VAG1594A
- * VAG1598/31 test box

Note:

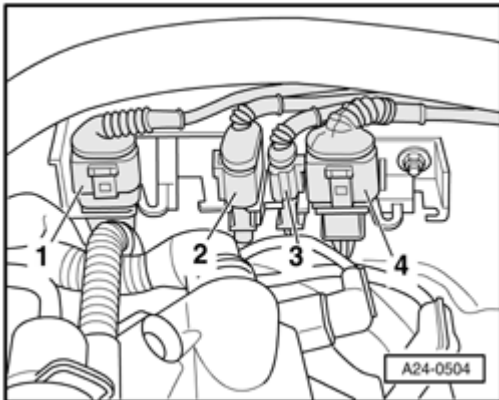
- *The engine speed (RPM) sensor detects RPM and reference marks. The engine cannot be started without a signal from the engine speed (RPM) sensor G28 . If the engine speed (RPM) sensor G28 signal fails while the engine is running, the engine will stop immediately.*

Test requirement:

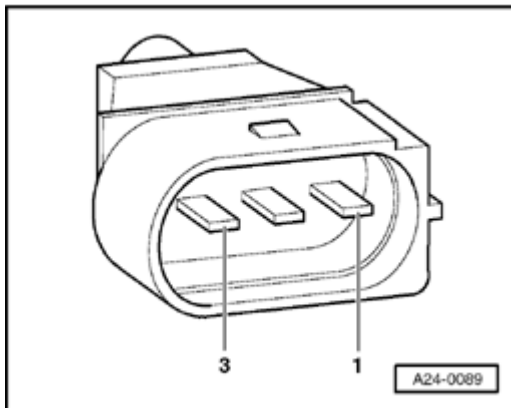
- Ignition switched off.

Procedure

- Before performing test, check sensor for proper installation and proper fitting.



- Disconnect electrical harness connector - 2 - from Engine Speed (RPM) sensor.

Checking internal resistance

- Connect multimeter between terminal 2 and 3 for resistance measurement.

- ◆ Specified value: 730 to 1000 Ω

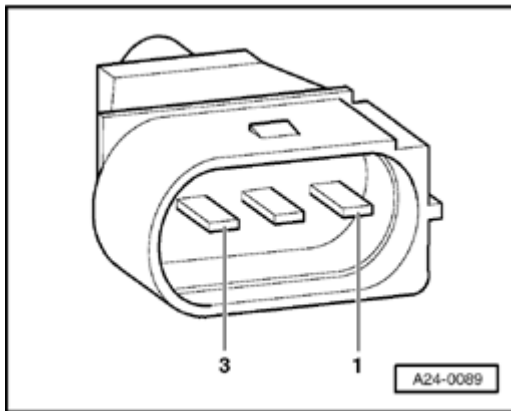
Note:

- ◆ *Resistance value of the engine speed (RPM) sensor is based on a temperature of 20 degree C. Resistance increases as temperature increases.*

If specified value is not obtained:

- Replace Engine Speed (RPM) sensor - -, .

If specified value is obtained:



- Connect multimeter to terminals 2 and 1 (shielding) and to terminals 3 and 1 (shielding) for resistance measurement.

- ◆ Specified value: each $\infty \Omega$ (no continuity)

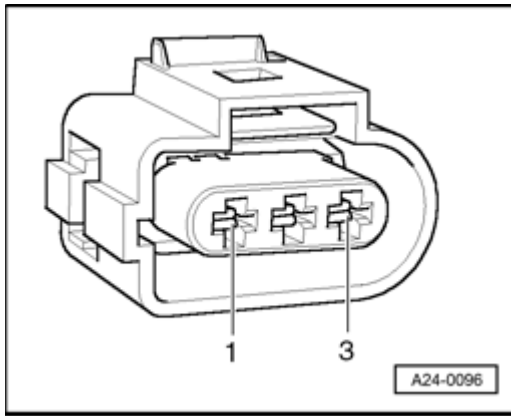
If specified value is not obtained:

- Replace Engine Speed (RPM) sensor - -, .

If specified value is obtained:

Checking wire connections

- Connect test box to wiring harness of Engine Control Module (ECM) \Rightarrow [Engine Control Module, Connecting Test Box to Wiring Harness](#) ; ECM is not connected.



– Check the following wire connections for open circuit according to wiring diagram:

Harness connector Terminal	Test box Socket
1 (shielding)	108
2 (Ground (GND))	90
3 (signal)	82

Specified value: Wire resistance max 1.5 Ω

– Check wires for short circuit to each other as well as to B+ and Ground (GND).

Specified value: ∞ Ω (no continuity)

– If necessary, repair wire connection.

If no malfunctions are detected:

– Replace Engine Control Module (ECM).

Final procedures

After repair work, the following work steps must be performed in the mentioned sequence:

1. Check DTC memory Mode 3: Check DTC memory .
2. If necessary, erase DTC memory Mode 4: Reset/erase diagnostic data .
3. If DTC memory was erased, generate readiness code.

– End diagnosis and switch ignition off.

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