
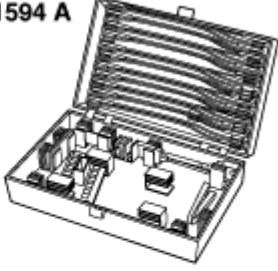



## Checking engine speed sender -G28-

- ♦ The engine speed sender -G28- is both a speed sender and a reference mark sender. Without a signal from the -G28- the engine cannot be started. If the signal from the -G28- fails while the engine is running, the engine will cut out immediately.
- ♦ Fitting location → Chapter.

<p><b>V.A.G 1526 A</b></p> 	<p><b>V.A.G 1594 A</b></p> 
<p><b>V.A.G 1598/31</b></p> 	
	<p style="text-align: right;">G24-0020</p>

### Special tools and workshop equipment required

- ♦ Hand-held multimeter -V.A.G 1526 A- or -V.A.G 1526 B-
- ♦ Adapter set -V.A.G 1594 A- or -V.A.G 1594 C-
- ♦ Adapter cable, 121-pin -V.A.G 1598/31- (test box)

### Procedure

- First check that sender is correctly installed and firmly attached.

- Unplug connector for engine speed sender (grey connector).
- Connect multimeter (resistance test range) between contacts -2- and -3-.
- Specification: 730 ... 1000  $\Omega$ .

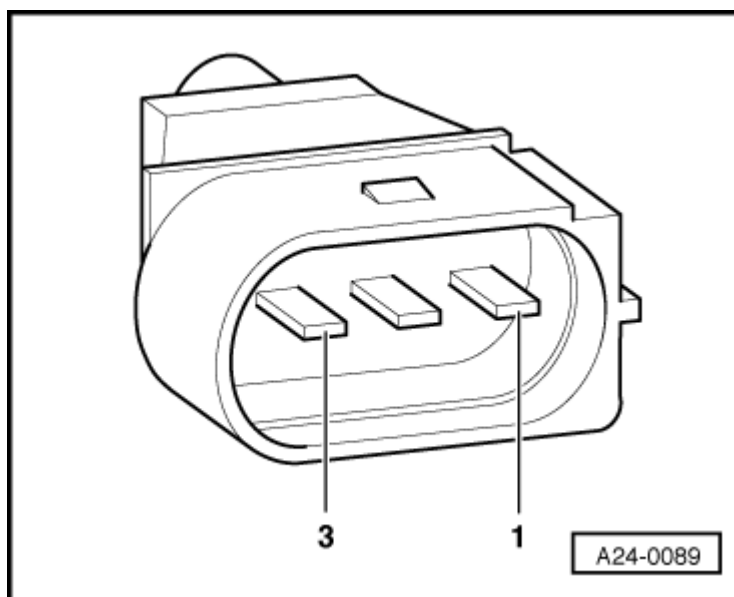
**Note**

*The resistance value of the engine speed sender is referenced to a temperature of 20 ° C. The resistance increases with increasing temperature.*

If specification is not obtained:

- Renew engine speed sender.

If reading matches specification:



- Connect multimeter (resistance measuring range) to contacts -2- and -1- (screen) of connector and then to contacts -3- and -1- of connector.

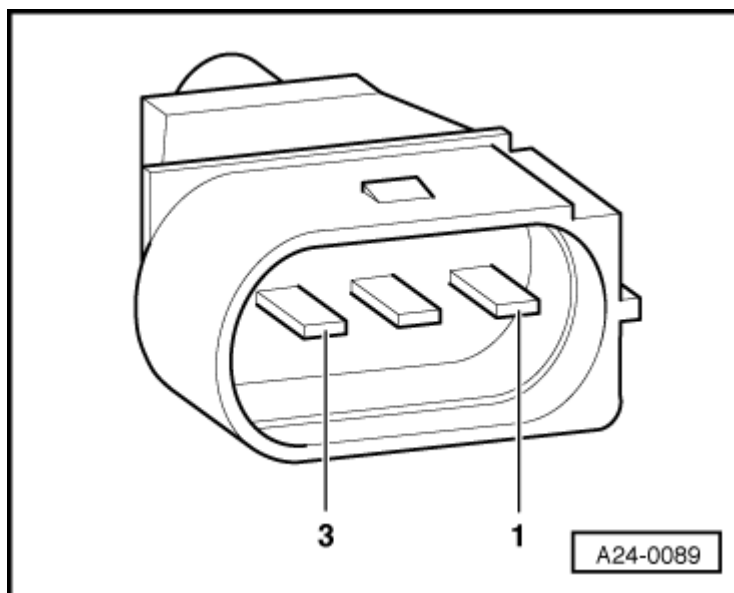
- Specification:  $\infty \Omega$  (no continuity) in each case.

If specification is not obtained:

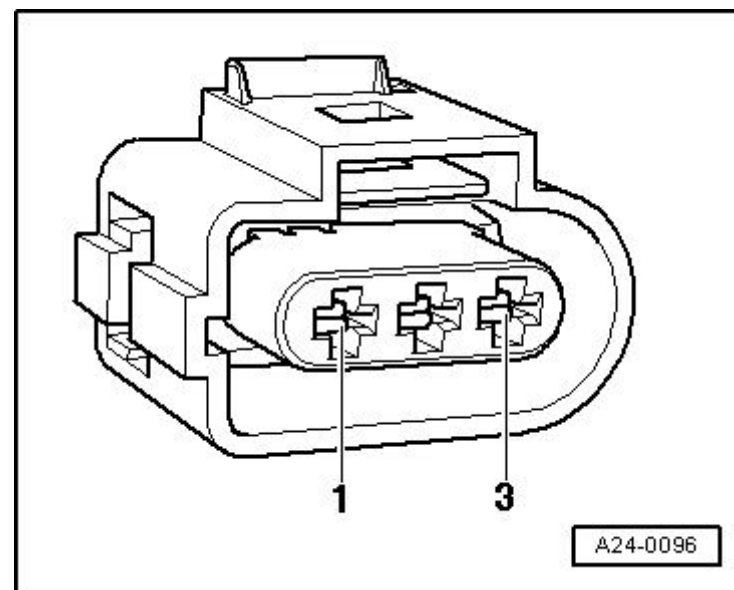
- Renew engine speed sender.

If reading matches specification:

- Connect adapter cable, 121-pin -V.A.G 1598/31- (test box) to wiring harness for engine control unit, but do not connect the engine control unit itself → **Chapter**.



- Check for open circuit and short to positive or earth in the following wiring:



Connector	-V.A.G 1598/31-
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Contact	Socket
-1- (screen)	108
-2- (earth)	90
-3- (signal)	82

- Specification: Wire resistance: max. 1.5  $\Omega$ .
- Check for short circuits between the wires.
- Specification: Wire resistance  $\infty \Omega$  (no continuity)
- Repair wiring connection if necessary.