

Audi > A4, S4 > 1996-2001**1.8 Liter 4-Cyl. 5V Turbo Generic Scan Tool Engine Code(s): AEB
28 - Ignition, Servicing**

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Camshaft Position Sensor, Checking**Note:**

- ◆ *Use only gold-plated terminals when servicing terminals in harness connector of Camshaft Position (CMP) Sensor G40 .*

Special tools, testers and auxiliary items required

- ◆ Multimeter .
- ◆ Wiring diagram.

Test requirements

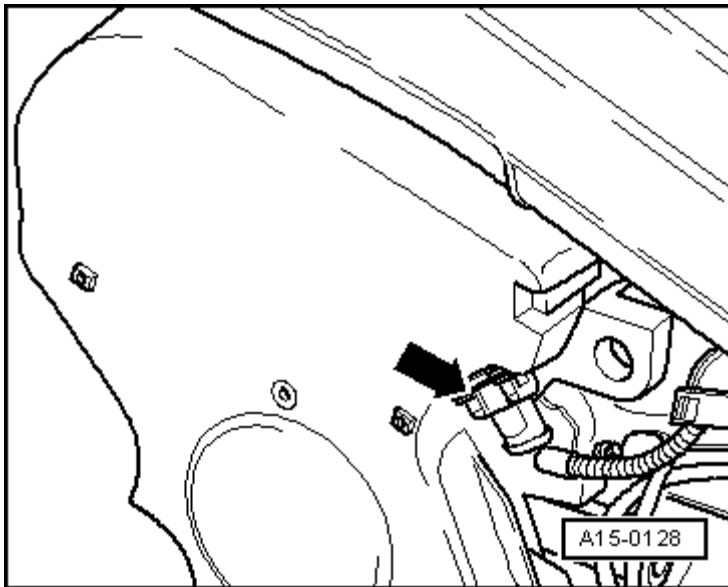
- ◆ The Motronic Engine Control Module (ECM) J220 fuses OK.
- ◆ Battery voltage at least 12.5 volts.
- ◆ All electrical consumers such as, lights and rear window defroster, switched off.
- ◆ Vehicles with automatic transmission, shift selector lever into position "P" or "N" .
- ◆ A/C switched off.
- ◆ Ground (GND) connections between engine/transmission/chassis OK.
- ◆ Ignition switched off.

Test procedure

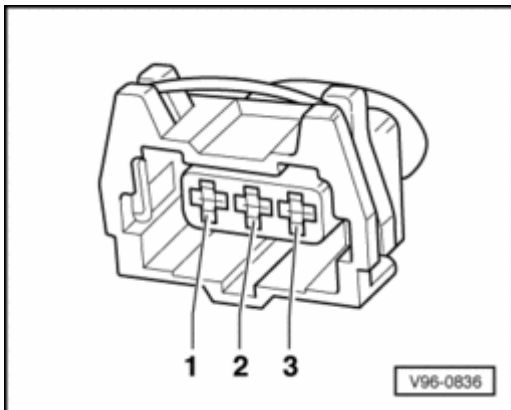
- Perform a preliminary check to verify the customers complaint. Refer to ⇒ [General Diagnosis](#) .

Start diagnosis

- Remove the engine cover.



- Disconnect the Camshaft Position (CMP) Sensor G40 electrical harness connector - **arrow** - .
- Switch the ignition on.



- Using a Multimeter , Check the Camshaft Position (CMP) Sensor G40 electrical harness connector terminals 1 to 3 for voltage.

Specified value: at least 4.5 V

- Switch the ignition off.

If the specification was not obtained:

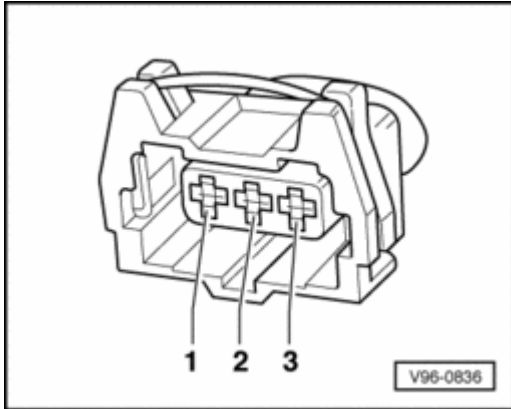
Checking wiring

If the manufacturers test box is being used. Perform the following step.

- Install the Adapter F/VAG1598 (68 Pin) VAG1598/22 . Refer to ⇒ Fuel Injection and Ignition - Repair Group 01 .

If the manufacturers test box is not being used. Perform the following step.

- Remove the Motronic Engine Control Module (ECM) J220 . Refer to ⇒ [Engine Control Module, Replacing](#) .



- Using a Multimeter , Check the Camshaft Position (CMP) Sensor G40 electrical harness connector to the Motronic Engine Control Module (ECM) electrical harness connector for an open circuit.

Camshaft Position (CMP) Sensor G40 electrical harness connector terminals	Motronic Engine Control Module (ECM) electrical harness connector or test box sockets
1	11
2	76
3	67

Specified value: 1.5 Ω Max.

If the specified value was not obtained:

- Check the wiring connection for an open circuit, short circuit to Battery (+) or Ground (GND).
- Check the wiring connection for damage, corrosion, lose or broken terminals.
- If necessary, repair the faulty wiring connection.

If no malfunction is found in the wiring and voltage supply was OK:

- Replace the Camshaft Position (CMP) Sensor G40 .

If no malfunction is found in the wiring and voltage supply was not OK:

- Replace the Motronic Engine Control Module (ECM) J220 . Refer to ⇒ [Engine Control Module, Replacing](#) .
- Install the engine cover.

Final procedures

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

1. Check the DTC memory .
 2. If necessary, erase the DTC memory .
 3. If the DTC memory was erased, generate readiness code .
- End of diagnosis.

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