

Vehicle: 2011 AUDI A4 2.0L L4 CAEB-GAS-FI-T

Content: Code P0300 : Random/Multiple Cylinder Misfire Detected

Ignition Coils With Power Output Stage , Checking

Function

The ignition coil must transform the relatively low 12 V on-board vehicle voltage to the high ignition voltage required and supply the energy stored in that voltage to the spark plug. The functional principle of the ignition coil is relatively simple. It has a primary winding (small number of turns) and a secondary winding (lots of turns). The turn ratio between the number of primary and secondary winding turns determines the level of the voltage generated at the output. The Ignition Coils With Power Output Stage are plugged directly into the spark plug. This means that the ignition energy can be transferred directly to the spark plug with virtually zero power loss.

- Multimeter
- Wiring Diagram
- Scan Tool
- LED Test Lamp

Test requirements

- Fuses OK.
- Battery voltage OK.
- Switch OFF all electrical and electronic accessories.
- Vehicles with Auto. Transmission, ensure Selector Lever position is in P .
- Vehicles with Man. Transmission, ensure Shifter Lever position is in N with Parking Brake applied.
- Coolant Temperature: $\geq 80^{\circ}\text{C}$.
- Observe all safety precautions: .
- View clean working conditions: .
- For Hybrid vehicle's : .

Test Procedure

Step	Procedure	Result / Action to Take
1	PERFORM: Preliminary Check to verify the customers complaint. . – Was Complaint verified?	– YES: GO TO: Step 2 . – NO: GATHER more information from customer about the complaint.
	IGNITION: ON. DISCONNECT: Faulty Ignition Coil With Power Output Stage	– YES: GO TO: Step 3