

Action: Message
 The fault memory contained the following entry: P071500 -Gearbox input speed sender 1 electrical fault in circuit.
 Possible fault causes in the mechatronics unit:
 Gearbox input speed sender 1 -G632 is defective.
 Automatic gearbox control unit -J217 is defective.

Test step: Next the mechatronics unit must be opened.
Action: Checking for short circuit

Action: Message
 - Switch the ignition off.
 - Remove the oil pan below the mechatronics unit as per the Workshop Manual.
 --> Workshop Manual Audi A5 2008> Power transmission, dual-clutch gearbox 0B5
 - Unplug the 8-pin connector for the wiring harness to the sensor module from the Automatic gearbox control unit -J217.
 (see document on right)

Action: Selection
 - Check the connector for:
 Spread contacts, pushed back plug contacts and corrosion.

Input: Could you detect a fault?
Action: No

Action: Message
 - Perform the following measurement on the 8-pin connector of the control unit.
 - Switch the ignition on.

Action: The connector to the sensor module is not connected during the measurement.
 For the measurement use suitable adapters or probes from adapter set V.A.G 1594.
Action: Message
 Resistance measurement
 U/R/D measuring lead (+) connectedControl unit connector 8-pinSocket7
 COM measuring lead (-) connectedControl unit ground
 Target value OK> 100.0 kOhm
 - Switch the ignition on.
 Note:
 For measurements at micro-harness connectors (e.g. engine wiring harness - Engine Control Module (ECM) connector as well as diverse other components), exclusive use is to be made of adapter cables V.A.G 1594/28 and V.A.G 1594/30 from connector test kit V.A.G 1594 C. Other auxiliary wires and measuring leads will damage the contacts in the connector!
Action: Message
 Please enter a default value for the resistance measurement in Ω. Target value OK: > 100000 Ω

Test instruments:

Output: No test instrument available or the existing test instrument is not sufficient. Would you like to work without a test instrument?

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Input: No

Input: Yes

Test instrument error message: #ODS0010E Details: #ODS0010E Details: Device couldn't be found.

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Test instrument used: VAS6356

Measuring mode: DMM - URDI resistance measurement

Target value OK: > 100000.0 Ohm

Default value: 9 Ohm

Measurement status: -2

Error code: 0

Test step: Replace mechatronics unit

Action: Message
 The measured values are not OK. The fault cause must be the Automatic gearbox control unit -J217.

Action: NB
 - Replace Automatic gearbox control unit -J217.
 Note:
 The gearbox control unit forms one unit together with the hydraulic control unit (valve body with solenoid and pressure regulating valves) and the gear sensor - the so-called mechatronics unit. The mechatronics unit shares an oil circuit with the clutches.
 Message

Action: NB
 - To replace the Automatic gearbox control unit -J217 run the following programs:
 G2 - Replace control unit (Rep.Gr. 34)
 END OF TEST
 Note:
 The relevant test program will be added to the test plan and should be started from there.

G632 - Gearbox input speed sender 1

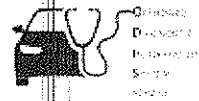
VIN WAUZZZ8T2DA056972

Model year 2013 (D)

Manufacturer Audi

Variant Sportback

Model Audi A5 2008>

Engine CDNC 2,0I TFSI /
155kW

Active step: Replace mechatronics unit

- To replace the Automatic gearbox control unit -J217 run the following programs:

- 02 - Replace control unit (Rep.Gr. 34)

END OF TEST

**Note:***The relevant test program will be added to the test plan and should be started from there.*

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