

Checking cruise control, engine code AHH only

Function

Cruise control function on vehicles with engine code AHH are controlled entirely by the Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM) -J248-. There is no separate control module for the cruise control.

The only additional components are the Cruise Control Switch (E45) and the Button for Cruise Control (set) (E227) in the turn signal switch stalk. These components can be checked with the following procedure.

In case of cruise control function complaints, the On Board Diagnostic (OBD) of the Diesel Direct Fuel Injection system must be checked for Diagnostic Trouble Codes (DTC) first ⇒ Rep. Group 01.

Contents :

- Checking Cruise Control Switch (E45) and Button for Cruise Control (E227) 14/2
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Required for troubleshooting :

- ◆ VAG 1551 Scan Tool (ST) with cable VAG 1551/3
- ◆ Multimeter Fluke 83
- ◆ Test Box VW1598/18
- ◆ Connector Test Kit VW1594
- ◆ Valid wiring diagram

CAUTION!

DO NOT damage, enlarge or bend connector terminals or cavities by forcing probes into them when performing electrical checks. Always use connector test kit VW 1594 to make the necessary electrical connections.

Checking Cruise Control Switch (E45) and Button for Cruise Control (E227)

Test conditions:

- ◆ Battery voltage OK
- ◆ Ground connections on engine, transmission and battery OK
- ◆ S102 Fuse 102 (15A) OK
- ◆ S231 Fuse 31 (15A) OK
- ◆ Diagnostic Trouble Code (DTC) Memory memory of Diesel Direct Fuel Injection (DFI) Engine Control Module (J248) checked and OK

Read measuring value block

- Connect VAG 1551 Scan Tool (ST) and select Engine Control Module (address word 01). => Rep. Group 01

Rapid data transfer Select function XX	HELP
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- ◀ Display :
- Enter 08 for function "Read measuring value block " function and confirm entry with Q-button.

Read measuring value block Enter display group number XX	HELP
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- ◀ Display :
- Enter display group No. 006 for display of switch position and confirm entry with Q-button.

Read measuring value block	6 ->
0 km/h/mph 000 000000 255	

- ◀ Display :
- Four display sectors are shown in lower display line.
 - See test table for interpreting values in individual display sectors.

Display Group	Display Field	Designation	Test conditions	V.A.G 1551 Display	Fault correction
006	3	Cruise Control Switch (E45)	E45 in position OFF	000 000	- Check wiring to Cruise Control Switch (E45) and Cruise Control Push Button (E22) using wiring diagram
		Cruise Control Switch (E45)	E45 in position ON	000 011	
		Cruise Control Switch (E45)	E45 is shifted left into position RES	001 011	
		Button for Cruise Control SET(E227)	E45 in position ON, SET-Button depressed	000 111	
4	4	Cruise control status	Cruise control blocked	255	- Cruise control system activated, => Troubleshooting No.14/3
		Cruise control status	Cruise control activated	0 or 1	

Activate or deactivate cruise control**Test conditions:**

- ◆ Diagnostic Trouble Code (DTC) memory checked and OK ⇒ Repair Group 01
- ◆ The measuring value block indicate cruise control activation status ⇒ Troubleshooting 14/2

Encoding Diesel Direct Fuel Injection (DFI) Engine Control Module (J248)

- Connect Scan Tool (ST) and select Engine Control Module (address word 01), ⇒ Rep. Group 01

028906021DF 1,9l R4 EDC G00SG 0602 → Coding 00001 WSC XXXXX
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◀ Display:

- If display shows "G00SG", cruise control is activated.

028906021DF 1,9l R4 EDC 00SG 0602 → Coding 00001 WSC XXXXX

◀ Display:

- If display shows "00SG", cruise control is not activated.
- Confirm entry with → button

Rapid data transfer Select function XX	HELP
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◀ Display:

- Enter 11 for "Log in procedure" function and confirm entry with Q button.

Rapid data transfer 11 - Login-procedure	Q
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◀ Display:

- Confirm entry with Q button.

Login-procedure Enter Code number XXXXX
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◀ Display:

- Cruise control is activated by entering code number : 11463
- Cruise control is deactivated by entering code number : 16167
- Confirm entry with → button and disconnect VAG 1551 Scan Tool (ST) from Data Link Connector (DLC).

After encoding the Diesel Direct Fuel Injection (DFI) Engine Control Module (J248), conduct a test drive to check the operation of the cruise control.