

Diagnosis - Fault memory

Prerequisites for reading fault memory

- Connect **pulse** counter or hand-held tester to the test coupling for diagnosis (X11/4) according to the connection diagram (see Index 0).
Model 124: Yellow cable to contact **14**
Models 129, 140, 202: Yellow cable to socket **7**

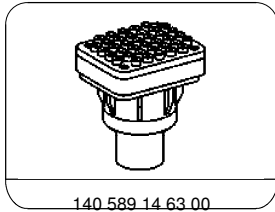
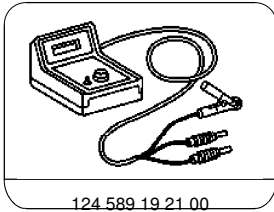
Note

The test program is divided into two sections:

- Electronic accelerator pedal with idle speed control (EFP)
- Tempomat cruise control (TPM)

Depending on the diagnosis, only the relevant test steps in the appropriate section should be performed.

Special tools



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Commercially available tools or testers, MB testers



Designation	e. g. Make, Order No.	
Hand-held tester (HHT)	Mercedes-Benz 70322 Stuttgart VP/PSD2	6511 0001 99
Multiplexer test cable	Mercedes-Benz 70322 Stuttgart VP/PSD2	6511 0040 99
4-pin adapter cable	Mercedes-Benz 70322 Stuttgart VP/PSD2	6511 0050 99

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Fault code	Possible cause	Remedy/Test step 1)
1	No fault recognized	-
2	EA/CC/ISC control module (N4/1)	N4/1
002	Idle speed (safety) contact	<input type="checkbox"/> 23 ⇒ 5.0, 6.0
006	Stop lamp switch	<input type="checkbox"/> 24 ⇒ 2.0
	Safety contact (trailing contact)	<input type="checkbox"/> 23 ⇒ 7.0
	Cruise control OFF	<input type="checkbox"/> 24 ⇒ 1.0
007	EA/CC/ISC control module (N4/1)	N4/1
	Actual value potentiometer	<input type="checkbox"/> 23 ⇒ 4.0
	Transmission mode selector switch	<input type="checkbox"/> 23 ⇒ 12.0, <input type="checkbox"/> 24 ⇒ 3.0
	Idle speed contact switch	<input type="checkbox"/> 23 ⇒ 11.0
008	Signal: Engine speed TNA	<input type="checkbox"/> 23 ⇒ 14.0
	Signal: Wheel speed	<input type="checkbox"/> 23 ⇒ 15.0, 16.0
009	Safety relay in EA/CC/ISC control module (N4/1)	N4/1
025	EA/CC/ISC control module (N4/1)	N4/1
	Engine wiring harness	Test insulation
037	Conditions for actuation of EA/CC/ISC actuator (M16/1) not met	Establish conditions: Engine: OFF Selector lever position: P/N



1) Observe prerequisites for testing

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Fault code  	Possible cause	Remedy/Test step 1)
3 054, 056 057 048 049 050 051 052 053 055	EA/CC/ISC actuator (M16/1) Potentiometer voltage supply Set value potentiometer Actual value potentiometer Safety contact (drag contact) Idle speed safety contact Servo motor Magnetic clutch Resetting not performed (actuator adaptation)	<input type="checkbox"/> 23 ⇒ 2.0-10.0 <input type="checkbox"/> 23 ⇒ 2.0 <input type="checkbox"/> 23 ⇒ 3.0 <input type="checkbox"/> 23 ⇒ 4.0 <input type="checkbox"/> 23 ⇒ 7.0, 8.0 <input type="checkbox"/> 23 ⇒ 6.0, 8.0 <input type="checkbox"/> 23 ⇒ 9.0 <input type="checkbox"/> 23 ⇒ 10.0 Erase fault memory Ignition: OFF Ignition: ON (for at least 90 s) If faults still present: EA actuator (M16/1)

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Fault code  	Possible cause	Remedy/Test step 1)
4 064	Cruise control switch (S40)	<input type="checkbox"/> 24 ⇒ 1.0
5 080	Stop lamp switch (S9/1)	<input type="checkbox"/> 24 ⇒ 2.0
6 096 097	Starter lockout/reversing lamp switch (S16/1)	<input type="checkbox"/> 23 ⇒ 12.0, <input type="checkbox"/> 24 ⇒ 3.0
7 112 115, 117	CAN data bus: Fault in transmission of EA control module (N4/1) Fault in reception of HFM-SFI control module (N3/4)	<input type="checkbox"/> 23 ⇒ 20.0 N4/1
8 128-130	Front left wheel speed signal from ASR control module (N30/1)	<input type="checkbox"/> 23 ⇒ 15.0
9 144	Models 129, 140, 202, 210: Rear left wheel speed signal from ASR control module (N30/1) Model 124: Hall-effect sensor signal (B6)	<input type="checkbox"/> 23 ⇒ 16.0 <input type="checkbox"/> 23 ⇒ 17.0
10 160	Engine speed (TN) signal from HFM-SFI control module (N3/4)	<input type="checkbox"/> 23 ⇒ 14.0
11 176-178, 182 180	Safety fuel cutoff signal to HFM-SFI control module (N3/4) Idle speed recognition signal to HFM-SFI control module (N3/4)	<input type="checkbox"/> 23 ⇒ 18.0 <input type="checkbox"/> 23 ⇒ 19.0
14 007 224	Idle speed contact switch, accelerator pedal (S29/3)	<input type="checkbox"/> 23 ⇒ 11.0
15 240	Implausible data interchange with ASR control module (N30/1)	N30/1

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