

## 3.4 Adaptive Damping System (ADS II) with electronic level control

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### Diagnosis - Diagnostic Trouble Code (DTC) Memory

#### Preparation for DTC Readout

1. Connect Hand-Held Tester (HHT) to data link connector (X11/4) according to connection diagram (see section 0).
2. Ignition: **ON**
3. Read out DTC memory for ADS control module (N51).
4. If no DTC's are stored, perform electrical test 23.

#### Special Tools



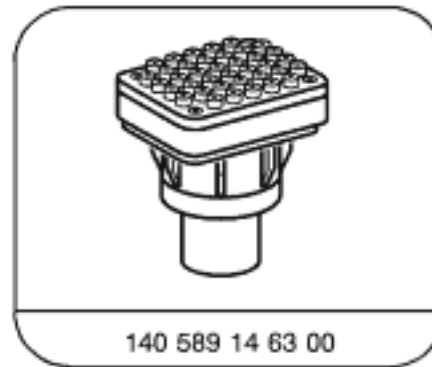
965 589 00 01 00

Hand-Held-Tester



965 589 00 40 00

Test cable




140 589 14 63 00

Adapter

### 3.4 Adaptive Damping System (ADS II) with electronic level control


#### Diagnosis - Diagnostic Trouble Code (DTC) Memory

	Possible cause	Test step/Remedy <sup>1)</sup>
–	No fault in system.	In case of complaint: 23 (entire test) and 33
C 1000	ADS control module (N51)	Replace N51.
C 1010	Battery low voltage, circuit 87	23 ⇒ 1.0
C 1012	Battery overvoltage, circuit 87	23 ⇒ 1.0
C 1110	Left front VSS signal from traction system control module (N47-1, N47-5), VSS signal status from traction system control module (N47-1, N47-5)	Read out ASR or ESP DTC memory.
C 1121	Left front body acceleration sensor (B24/3)	23 ⇒ 4.0
C 1122	Right front body acceleration sensor (B24/4)	23 ⇒ 4.0
C 1123	Right rear body acceleration sensor (B24/6)	23 ⇒ 4.0
C 1130	Front axle level sensor (B22/2)	23 ⇒ 4.0
C 1131	Rear axle level sensor (B22/3)	23 ⇒ 4.0
C 1140	Steering angle sensor (N49), open/short circuit in sensor, initialization	23 ⇒ 5.0 <b>Turn steering wheel from stop to stop</b>
C 1200	Stop lamp switch (S9/1), open/short circuit	Wiring, S9/1
C 1320	Left front axle damper valve assembly, front axle solenoid valve 1 (Y51y1), open/short circuit	23 ⇒ 7.0

1) Observe Preparation for Test, see 22.

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	Possible cause	Test step/Remedy <sup>1)</sup>
[ 1321	Left front axle damper valve assembly, front axle solenoid valve 2 (Y51y2), open/short circuit	23 ⇒ 7.0
[ 1322	Right front axle damper valve assembly, front axle solenoid valve 1 (Y52y1), open/short circuit	23 ⇒ 8.0
[ 1323	Right front axle damper valve assembly, front axle solenoid valve 2 (Y52y2), open/short circuit	23 ⇒ 8.0
[ 1324	Left rear axle damper valve assembly, rear axle solenoid valve 1 (Y53y1), open/short circuit	23 ⇒ 9.0
[ 1325	Left rear axle damper valve assembly, rear axle solenoid valve 2 (Y53y2), open/short circuit	23 ⇒ 9.0
[ 1326	Right rear axle damper valve assembly, rear axle solenoid valve 1 (Y54y1), open/short circuit	23 ⇒ 10.0
[ 1327	Right rear axle damper valve assembly, rear axle solenoid valve 2 (Y54y2), open/short circuit	23 ⇒ 10.0
[ 1328	Valve (raise front axle) (Y36/6y1), open/short circuit	23 ⇒ 11.0
[ 1329	Valve (raise rear axle) (Y36/6y2), open/short circuit	23 ⇒ 11.0

<sup>1)</sup> Observe Preparation for Test, see 22.

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#### Diagnosis - Diagnostic Trouble Code (DTC) Memory

	Possible cause	Test step/Remedy <sup>1)</sup>
C 1330	Valve (lower front axle) (Y36/6y3), open/short circuit	23 ⇒ 11.0
C 1331	Valve (lower rear axle) (Y36/6y4), open/short circuit	23 ⇒ 11.0
C 1505	ADS MIL (A1e27) open/short circuit	23 ⇒ 3.0
C 1506	Comfort/Sport switch (S45/1), open/short circuit	Wiring, S45/1
C 1507	Level adjustment switch (S77), open/short circuit	Wiring, S77
C 1508	Level adjustment switch (S77), lock-out activated	
C 1509	Vehicle front axle level too low	
C 1510	Hydraulic fault, Rear axle "lower" valve activation time too long, Hydraulic fault, Front axle "lower" valve activation time too long, Hydraulic fault, Rear axle "raise" valve activation time too long, Hydraulic fault, Front axle "raise" valve activation time too long	

<sup>1)</sup> Observe Preparation for Test, see 22.