

3.3 Adaptive Damping System (ADS II)

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) and for model 140, the Base Module (N16/1) as well.
4. If no DTC's are stored in memory: perform entire test in 33 as well.

Special Tools



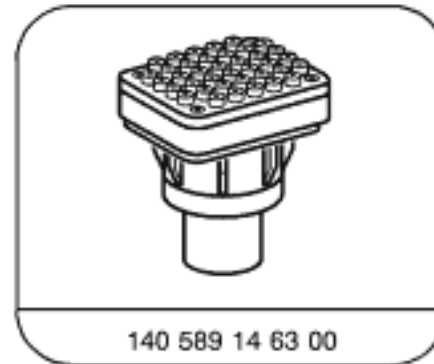
965 589 00 01 00

Hand-Held-Tester



965 589 00 40 00

Test cable




140 589 14 63 00

Adapter

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	Possible cause	Test step/Remedy ¹⁾
–	No fault in system.	In case of complaint: 23 (entire test) and 33
002	ADS control module (N51)	Replace N51
003	Left front body acceleration sensor (B24/3)	23 ⇒ 13.0
004	Right front body acceleration sensor (B24/4)	23 ⇒ 14.0
005	Right rear body acceleration sensor (B24/6)	23 ⇒ 15.0
006	Left front axle damper valve assembly, front axle solenoid valve 1 (Y51y1)	23 ⇒ 6.0
007	Left front axle damper valve assembly, front axle solenoid valve 2 (Y51y2)	23 ⇒ 6.0
008	Right front axle damper valve assembly, front axle solenoid valve 1 (Y52y1)	23 ⇒ 7.0
009	Right front axle damper valve assembly, front axle solenoid valve 2 (Y52y2)	23 ⇒ 7.0
010	Left rear axle damper valve assembly, rear axle solenoid valve 1 (Y53y1)	23 ⇒ 8.0
011	Left rear axle damper valve assembly, rear axle solenoid valve 2 (Y53y2)	23 ⇒ 8.0
012	Right rear axle damper valve assembly, rear axle solenoid valve 1 (Y54y1)	23 ⇒ 9.0
013	Right rear axle damper valve assembly, rear axle solenoid valve 2 (Y54y2)	23 ⇒ 9.0
014	ADS MIL (A1e27)	23 ⇒ 3.0

¹⁾ Observe Preparation for Test, see 22.

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	Possible cause	Test step/Remedy ¹⁾
015	Steering angle sensor (N49)	23 ⇒ 4.0
016	Steering angle sensor (N49), incorrect signal	23 ⇒ 4.0
017	Steering angle sensor (N49) not initialized	23 ⇒ 5.0
018	Model 140: Right front VSS signal from ASR/SPS control module (N47-1, N47-2) or ESP/SPS/BAS control module (N47-5) or ESP/SPS control module (N47-5)	23 ⇒ 11.0
019	Comfort/sport switch (S45/1)	23 ⇒ 16.0
020	Voltage supply too low	23 ⇒ 1.0
021	Voltage supply too high	23 ⇒ 1.0
022	Stop lamp switch (S9/1) (4-pole)	23 ⇒ 6.0

1) Observe Preparation for Test, see 22.