

6.2 Anti-lock Brake System (ABS)

Models 124.034, 129 (HFM-SFI only), 140

Diagnosis - Diagnostic Trouble Code (DTC) Memory

Test Preparation for DTC Readout

1. Connect impulse counter scan tool or Hand-Held Tester to data link connector (X11/4) as shown in section 0.

Note:

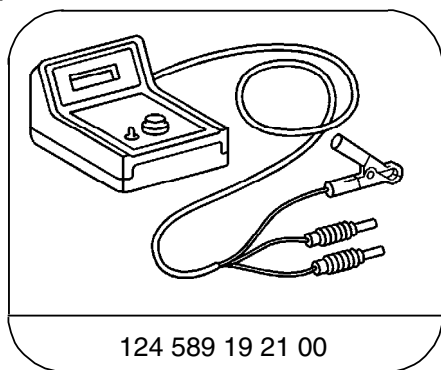
Connect yellow wire from impulse counter scan tool as follows:

ABS control module (N30) socket 6

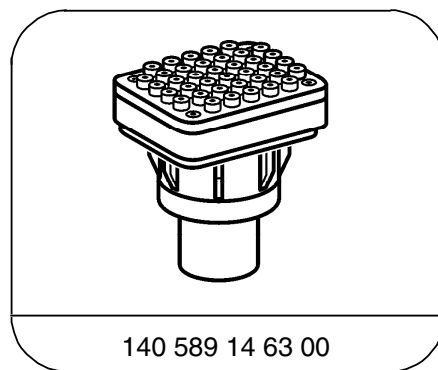
Base module (N16/1) socket 8

2. Ignition: **ON**.
3. Read DTC memory of ABS control module (N30), and base module (N16/1).

Special Tools



Pulse counter



Adapter



Equipment

Hand-Held Tester (HHT)	see applicable Service Information in groups 58 and 99
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Diagnosis - Diagnostic Trouble Code (DTC) Memory



Diagnostic trouble code (DTC)  		Possible cause	Test step/Remedy ¹⁾
1	—	No faults recognized. In case of complaint:	23 (entire test)
2	002	Left front axle vehicle speed sensor (L6/1), open circuit	23⇒ 10.0
3	003	Right front axle vehicle speed sensor (L6/2), open circuit	23⇒ 12.0
4	004	Rear axle vehicle speed sensor (L6), open circuit	23⇒ 14.0
6	006	Left front axle solenoid valve (A7y1)	23⇒ 16.0
7	007	Right front axle solenoid valve (A7y2)	23⇒ 17.0
8	008	Rear axle solenoid valve (A7y3)	23⇒ 18.0
10	010	Return pump (A7m1) or return pump relay (A7k2)	23⇒ 6.0
11	011	Solenoid valve relay (A7k1)	23⇒ 5.0
12	012	Models 140.04/05: Master cylinder switchover valve (Y61)	23⇒ 7.0
13	013	Brake lamp switch (S9/1)	23⇒ 9.0
14	014	Models 140.04/05: Lateral acceleration sensor (B24/2)	23⇒ 8.0
15	015	ABS control module (N30)	N30

¹⁾ Observe Preparation for Test, see 22.

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Diagnostic trouble code (DTC)  		Possible cause	Test step/Remedy ¹⁾
16	016	Vehicle speed sensors (L6, L6/1, L6/2), implausible signal ²⁾	23⇒ 10.0 23⇒ 12.0 23⇒ 14.0 Visual inspection
17	017	Solenoid valve relay (A7k1)	23⇒ 5.0
25	025	Left front axle vehicle speed sensor (L6/1), implausible signal ²⁾	23⇒ 10.0
26	026	Right front axle vehicle speed sensor (L6/2), implausible signal ²⁾	23⇒ 12.0
27	027	Rear axle vehicle speed sensor (L6), implausible signal ²⁾	23⇒ 14.0
29	029	Models 140.04/05: Lateral acceleration sensor (B24/2), implausible signal	23⇒ 8.0

¹⁾ Observe Preparation for Test, see 22.

²⁾ Incorrect number of rotor teeth, dirty or damaged, incorrect rear axle ratio, tires or wheels.