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Component Search:

 Conversion Calculator

1998 Mercedes Benz SLK 230 (170.447) L4-2.3L SC (111.973)

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DTCM - Diagnostic Trouble Code Memory

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Preliminary work: Diagnosis - Function Test. [See: FT - Function Test](#)

Preparation for DTC Readout :

1. Review DTC Memory and Actual Values.
2. Fuses OK.
3. Battery voltage **11 - 14 V**
4. SRS MIL (A1e15) illuminates.
5. Connect Hand-Held Tester (HHT) as per connection diagram and readout DTC memory. **WARNING: Interrupt any electrical current from reaching the airbag unit.**
 - Do not connect battery trickle charger.
 - Risk of Injury when performing diagnostic tests and repairs on components of the SRS system.
 - Store both airbags and side airbags with opening surface pointing upward.
 - Do not expose to temperatures above **100°C** .

NOTE: As of 07/93, diagnostic trouble codes (**DTC's**) can only be read out and erased using the **Hand-Held Tester (HHT)**.

Determine MB number of the SRS control module via HHT (See DTC Chart).

- The SRS control modules beginning with the number 000, the fault code **1** is valid.
- Those beginning with 001, the fault code **2** is valid.

NOTE : When installing additional accessories, observe harness clearances near SRS sensor lines.

Test equipment : Hand-Held Tester (HHT) (Available through the MBNA Standard Equipment Program.)

> Ω	Resistance too great.
< Ω	Resistance too low.
ΓΓ-	Short circuit to ground (GND)
ΓΓ+	Short circuit to positive (POS).
-//-	Open circuit.

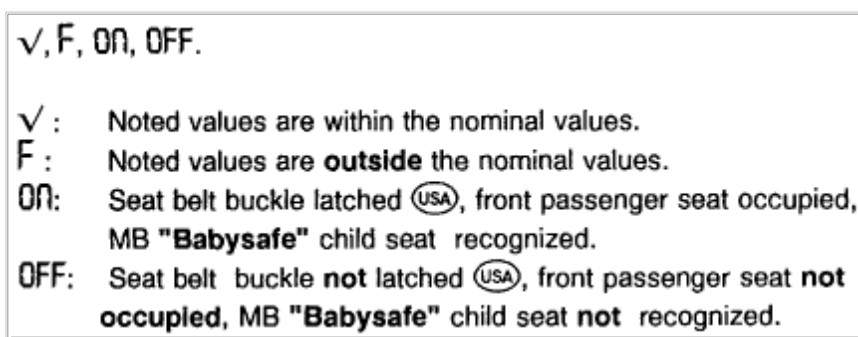
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NOTE : A current fault is indicated by the DTC being highlighted in black. Additional detailed information is given with most DTC's, which will indicate possible faults conditions or portions thereof: (see image above).

Fault frequency and time span of the fault can be read by pressing the ! key.

Fault frequency: Faults are noted by frequency of occurrence, i.e.: 5 periodic faults, 5 occurrences, eliminated 5 times.

Time span: The amount of time elapsed since last fault, or since fault eliminated itself.

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Actual values: Four displays are possible (see image above)

Contrary to the DTC memory, actual values are updated continuously, even during diagnosis, so that, e.g.: by moving components, or connections and wiring harnesses, intermittent failures may be indicated, recognized.

Control Module Versions : Information regarding the AB control modules and Side airbag sensors can be readout:

- Model
- Manufacture location
- Manufacture date
- Daily manufacture number (as of 12/96 only)

DTC Chart (Part 1)

DTC		Possible cause	Test step/Remedy ¹⁾
with fault code 1	with fault code 2		
001	001	SRS control module (N2/2)	⇒ ETP-Test Step 2.0
002	004	Driver AB squib (R12/3)	⇒ ETP-Test Steps 3.0, 4.0
003	005	Left front ETR squib (R12/1)	⇒ ETP-Test Steps 5.0, 6.0
004	006	Right front ETR squib (R12/2)	⇒ ETP-Test Steps 7.0, 8.0
005	007	Front passenger AB squib (R12/8)	⇒ ETP-Test Steps 9.0, 10.0
	008	Left side airbag squib (R12/9)	⇒ ETP-Test Steps 15.0, 16.0
	009	Right side airbag squib (R12/10)	⇒ ETP-Test Steps 17.0, 18.0
010	004-009 016, 017 026, 029 034	Programming does not comply with vehicle version	⇒ CMP verify vehicle version, repeat programming.
017	003	Circuit 15R, voltage supply (low voltage)	⇒ ETP-Test Step 1.0
019	002	SRS MIL (A1e15)	⇒ ETP-Test Step 11.0
020	025	Front passenger seat occupied recognition sensor (B41/1) ²⁾ or (B48)	⇒ ETP-Test Step 19.0
010	026	Programming does not comply with vehicle version	⇒ CMP verify vehicle version, repeat programming.

¹⁾ Observe [Preparation for Test](#)





²⁾ As of model introduction (USA), other models as of approx. 06/96

EIP-Electrical Test Program
CMP-Control Module Programming

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DTC Chart (Part 2)

DTC		Possible cause	Test step/Remedy ¹⁾
with fault code 1	with fault code 2		
024 	016 	Left front seat belt buckle switch (AB/ETR) (S68/3)	⇒ ETP-Test Step 12.0
025 	017 	Right front seat belt buckle switch (AB/ETR) (S68/4)	⇒ ETP-Test Step 13.0
073		Squib short circuit (Γ1) (to each other)	⇒ ETP-Test Step 14.0
	018	Left side airbag (A53), harness fault	⇒ ETP-Test Step 15.0
	019	Left side air bag (A53), sensor defective	Replace sensor
	020	Left side air bag (A53), sensor defective	Replace sensor
	021	Right side airbag (A54), harness fault	⇒ ETP-Test Step 16.0
	022	Right side airbag (A54), sensor defective	Replace sensor
	023	Right side airbag (A54), sensor defective	Replace sensor
	027	Front passenger seat occupied recognition with automatic child seat recognition (B48) (ACSR), communication, -/Γ, Γ1	⇒ ETP-Test Step 20.0
	028	Front passenger seat occupied recognition with automatic child seat recognition (B48) (ACSR), Improperly positioned child seat or faulty, Connection between passenger seat and child seat faulty, B48, Metallic objects on passenger seat or child seat, Short term electromagnetic interference in immediate area such as electronic transmitters, telephones etc.	Position child seat properly or replace, Replace B48

¹⁾ Observe [Preparation for Test](#) [ETP-Electrical Test Program](#)

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DTC Chart (Part 3)

DTC		Possible cause	Test step/Remedy ¹⁾
with fault code 1	with fault code 2		
	031	Front passenger seat occupied recognition with automatic child seat recognition (B48) (ACSR)	Replace B48
	032	Left side airbag (A53), communication interference	Electromagnetic interference, check harness routing if accessories installed ²⁾
	033	Right side airbag (A54), communication interference	Electromagnetic interference, check harness routing if accessories installed ²⁾
	034	Digital crash output, harness fault (ARTHUR) ³⁾	
	035	Analoge crash output, harness fault (model 170 Kompressor)	

¹⁾ Observe Preparation for Test
²⁾ Observe clearances near sensors, if additional accessories are being installed.
³⁾ Currently only on model 170

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Preparation for DTC readout for Lower Control Field Control Module (N72) only

1. Connect Hand-Held Tester (HHT) as per connection diagram and readout DTC memory for lower control field control module (N72).
2. Listed below are only the DTC's pertaining to SRS
3. Fuses OK.
4. Battery voltage **11 - 14V**
5. SRS MIL (A1e15) illuminates.

DTC's for Lower Control Field Control Module (N72)		
DTC	Possible cause	Test step/Remedy 1)
B 1558	Automatic child seat recognition warning lamp (N72e1) Γ1- short circuit to ground, -Γ/- open circuit	⇒ ETP-Test Step 22.0
B 1559	ACSR signal line Γ1- short circuit to ground	⇒ ETP-Test Step 20.0

1) Observe [Preparation for Test](#) [ETP-Electrical Test Program](#)

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