Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

⚠ **CAUTION!**

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.
Interrupt any electrical current from reaching the airbag unit.

⚠ **CAUTION!**

Risk of injury if airbag units and ETR units are ignited accidentally or if stored with the opening end facing downward which may cause the accidentally ignited components to fly about causing injury. Danger to persons also exists if the components are disposed of by cutting apart with cutting torches or other cutting/separation devices. Danger also exists if disposing the untriggered units via refuse collection or via smelting/carbonizing companies.

Protective measures/Supervision

- Place removed airbag unit with the opening side facing upward.
- Allow only **properly trained dealer staff** to supervise, purchase, transport, store, test/replace any of the SRS components.
- Install all airbag or ETR units once pulled from the parts department.
- Protect all airbag or ETR units from any sparks, open flame, or temperatures above 100°C.
- Do not transport airbag or ETR units in the passenger compartment, rather transport securely in their **original packaging** in the trunk.
- Do not allow oil, grease or cleaning agents come in contact with the airbag or ETR units
- Perform SRS tests only with approved test equipment (such as HHT), while installed in the vehicle **without** occupants.
- When reconnecting the vehicle battery or any outside electrical source, with the ignition turned ON, do not allow any occupants inside the vehicle.
- Airbag or ETR units which have been dropped from a height greater than 18 inches must be replaced.
- Prior to disposing the airbag or ETR units, the units must be made un-useable by discharging.
- In order to render the airbag and ETR unit un-useable, the specially made discharge harness must be used and at the same time maintain a **safe distance of at least 33 feet** from the units being discharged.

Prior to undertaking any chassis/body repairs, installation/repair work on airbag and ETR units, or any components which come in contact with the airbag and ETR units, or are part of the electrical circuit of airbag and ETR units (such as installation of the steering wheel), the following conditions must be met:

- Remove ignition key.
- Disconnect any outside source of electrical circuit (i.e. battery charger).
- When performing interior repairs or welding operations, disconnect the connector from the SRS control module.

Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

Preliminary work:
Diagnosis - Function Test 11

Preparation for DTC readout

1. Review 12, 13, 14, 20, 22
2. Connect Hand-Held Tester (HHT) as per connection diagram, see section 0, and readout DTC memory.
3. Fuses OK.
4. Battery voltage 11 – 14 V

⚠ CAUTION!

Do not connect battery trickle charger.

⚠ CAUTION!

Risk of Injury when prforming 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.
Interrupt any electrical current from reaching the airbag unit.

(!)

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

Test equipment; See MBNA Standard Service Equipment Program

Hand-Held Tester (HHT) 1)	See S.I. in groups 58 and 99.

1) Available through the MBUSA Standard Equipment Program.

Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

i

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:

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

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

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

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

Actual values:
Four displays are possible:
√, F, ON, OFF.

√ :	Noted values are within the nominal values.
F :	Noted values are **outside** the nominal values.
ON:	Seat belt buckle latched (USA), front passenger seat occupied.
OFF:	Seat belt buckle **not** latched (USA), front passenger seat **not occupied**.

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.

Additional Actual Values:
If so equipped, with Seat Occupied Recognition (SOR) with Automatic Child Seat Recognition (ACSR) the additional information is shown:
Function: F / SOR / ACSR
(SOR continues to be active regardless if MB Child seat "Babysafe" is not used or recognized).
Passenger seat: occupied / not occupied
Child seat: F / recognized / not used
Facing direction of child seat: F / forwards / backwards

i

The actual values: SOR/ACSR are updated approx. every 15 seconds.

Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

DTC 	Possible cause	Hints	Test step/Remedy [1]
No communication with HHT	Diagnostic line		23⇒ 2.0
No fault codes	No fault codes recognized.	In case of complaint; Perform electrical Test 23	23
B1000	SRS control module (N2/2)		N2/2
B1044	Front passenger AB squib 1 (R12/4) Faulty version coding		31
B1051	Driver AB squib 1 (R12/3) Faulty version coding		31
B1064	Circuit 15R Under or over voltage condition		23⇒ 1.0
B1065	Driver ETR squib (R12/1) Faulty version coding		31
B1066	Left side airbag squib (R12/9) Faulty version coding		31
B1068	Front passenger ETR squib (R12/2) Faulty version coding		31
B1069	Right side airbag squib (R12/10) Faulty version coding		31

[1] Observe Preparation for Test, see 22.

Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

DTC	Possible cause	Hints	Test step/Remedy [1]
B1083	Left/right hand drive Faulty version coding	**Model 163 as of 3/98, up to 12/99**	23⇒ 20.0
B1150	Left front seat belt buckle/belt lock switch (S68/7), ⌜⌝+, ⌜⌝–, –//– Faulty version coding		23⇒ 18.0, 31
B1151	Right front seat belt buckle/belt lock switch (S68/8), ⌜⌝+, ⌜⌝–, –//– Faulty version coding		23⇒ 19.0, 31
B1476	SRS MIL (A1e15)		23⇒ 3.0
B1522	Driver airbag squib (R12/3) < Ω, > Ω		23⇒ 4.0
B1523	Driver airbag squib (R12/3) ⌜⌝+, ⌜⌝–		23⇒ 5.0
B1524	Front passenger AB squib (R12/4) < Ω, > Ω		23⇒ 7.0
B1525	Front passenger AB squib (R12/4) ⌜⌝+, ⌜⌝–		23⇒ 8.0
B1526	Driver ETR squib (R12/1) < Ω, > Ω		23⇒ 14.0

[1] Observe Preparation for Test, see 22.

Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

DTC	Possible cause	Hints	Test step/Remedy [1]
B1527	Driver ETR squib (R12/1) ⌜1+, ⌜1–		23⇒ 15.0
B1528	Front passenger ETR squib (R12/2) < Ω, > Ω		23⇒ 16.0
B1529	Front passenger ETR squib (R12/2) ⌜1+, ⌜1–		23⇒ 17.0
B1530	Left side airbag squib (R12/9) < Ω, > Ω		23⇒ 10.0
B1531	Left side airbag squib (R12/9) ⌜1+, ⌜1–		23⇒ 11.0
B1532	Right side airbag squib (R12/10) < Ω, > Ω		23⇒ 12.0
B1533	Right side airbag squib (R12/10) ⌜1+, ⌜1–		23⇒ 13.0
B1152	Front passenger seat occupied recognition	Only valid with ACSR **Model 163 as of 3/98, up to 12/99**	23⇒ 21.0
B1153	Child seat: Communication fault, –//–, ⌜1+ Child seat: ⌜1–	Only valid with ACSR **Model 163 as of 3/98, up to 12/99**	23⇒ 24.0

[1] Observe Preparation for Test, see 22.

Diagnosis - Diagnostic Trouble Code (DTC) Memory (driver/passenger-side airbag/side airbag)

DTC 	Possible cause	Hints	Test step/Remedy [1]
B1153	Child seat: Positioned incorrectly Child seat: Only one transponder recognized Child seat: "Signal" transmission fault between front passenger seat and "Babysafe"	Only valid with ACSR **Model 163 as of 3/98, up to 12/99**	23⇒ 22.0
B1153	AIRBAG OFF indicator lamp (A1e56) –//–, ⌜⌝–	Only valid with ACSR **Model 163 as of 3/98, up to 12/99**	23⇒ 23.0
B1153	Child seat not recognized, unknown Child seat version code faulty Child seat not approved	Only valid with ACSR	Perform coding via HHT, Use only approved Child seats, 31

[1] Observe Preparation for Test, see 22.