












16.3 Airbag (AB)

Models 129, 140, 170, 202, 208, 210














Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
1.0		Circuit 15R voltage supply Low voltage/ 01 Voltage		Ignition key in position "2".	✓ F	Wiring, Battery.
2.0		SRS control module (N2/2)		Ignition key in position "2".		N2/2
3.0		02 Driver AB squib (R12/3) > Ω < Ω		Ignition key in position "2".	✓ F	⇒ 3.1
3.1		02 Driver AB squib (R12/3)	1 ←  R12/3  → 2	Remove ignition key. Remove driver airbag. Disconnect driver AB squib (R12/3). Connect  (22, Figure 5). Set resistance of 2 Ω. Ignition key in position "2".	✓ F	Driver airbag unit. ⇒ 3.2

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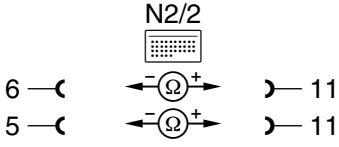





Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
3.2	002 004	02 Driver AB squib (R12/3) > Ω < Ω (except for Model 202 as of 06/97, Model 210 as of 03/97). (Model 202 as of 07/97, Model 210 as of 04/97).	<p>A45x1</p> <p>1 —  —  — 2</p> <p>X28/23</p> <p>1 —  —  — 2</p>	Remove ignition key. Connect  (22, Figure 4). Set resistance of 2 Ω. Ignition key in position "2".	✓ F	Check horn/airbag clock spring contact (A45) for continuity. ⇒ 3.4 Model 140: ⇒ 3.3
3.3		02 Driver AB squib (R12/3) > Ω < Ω Model 140 as of 07/97 only	<p>X11/3</p> <p>3 —  —  — 4</p>	Remove ignition key. Connect  (22, Figure 2).	2 – 5 Ω	Wiring, ⇒ 3.4
3.4		Driver AB squib (R12/3) > Ω < Ω	<p>N2/2</p> <p>10 —  —  — 11</p>	Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	2 – 5 Ω	Wiring.



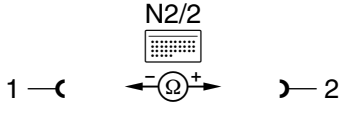

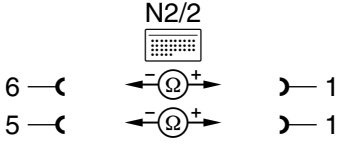



16.3 Airbag (AB)

Models 129, 140, 170, 202, 208, 210





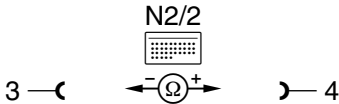

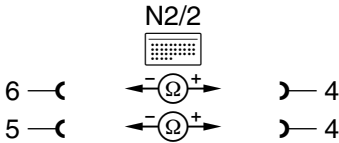


Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
4.0	002 004	02 Driver AB squib (R12/3) Γ1- Γ1+		 not connected. Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	>20 kΩ >20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R.
5.0	003 005	05 Left front ETR squib (R12/1) > Ω < Ω		Ignition key in position "2".	✓ F	⇒ 5.1
5.1		05 Left front ETR squib (R12/1)		Remove ignition key. Disconnect left front ETR squib (R12/1) connector. Connect  (22, Figure 5). Set resistance of 2 Ω. Ignition key in position "2".	✓ F	Seat belt retractor. ⇒ 5.2

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
5.2	003 005	05 Left front ETR squib (R12/1) > Ω < Ω		Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	2 – 5 Ω	Wiring. Model 129: ETR connector (left seat plug connection, X28/8) not properly connected.
6.0	003 005	05 Left front ETR squib (R12/1) Γ1- Γ1+		 not connected. Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	>20 kΩ >20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R.
7.0	004 006	06 Right front ETR squib (R12/2) > Ω < Ω		Ignition key in position "2".	√ F	⇒ 7.1








Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
7.1	004 006	06 Right front ETR squib (R12/2)		Remove ignition key. Disconnect right front ETR squib (R12/2) connector. Connect  (22, Figure 5). Set resistance of 2 Ω. Ignition key in position "2".	✓ F	Seat belt retractor. ⇒ 7.2
7.2		06 Right front ETR squib (R12/2) > Ω < Ω		Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	2 – 5 Ω	Wiring. Model 129: ETR connector (right seat plug connection, X28/9) not properly connected.
8.0	004 006	06 Right front ETR squib (R12/2) Γ1- Γ1+		 not connected. Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	>20 kΩ >20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R.







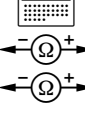


16.3 Airbag (AB)

Models 129, 140, 170, 202, 208, 210

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
9.0	005 007	03 Front passenger AB squib (R12/8) > Ω < Ω		Ignition key in position "2".	✓ F	⇒ 9.1
9.1		03 Front passenger AB squib (R12/8)	1 —  — 2	Remove ignition key. Remove glove box. Disconnect front passenger AB squib (R12/8) connector. Connect  (22, Figure 5). Set resistance of 2 Ω. Ignition key in position "2".	✓ F	Front passenger airbag unit. Model 140: SRS test connector (X11/13) not properly connected. Model 202: Airbag intermediate connector (X28/12) not properly connected. Model 140 ⇒ 9.2, except Model 129, 140, 210 as of 03/97: ⇒ 9.3, All models: ⇒ 9.4
9.2		03 Right front ETR squib (R12/8) > Ω < Ω	5 —  — 6	Remove ignition key. Disconnect X11/13. Connect  (22, Figure 2).	2 – 5 Ω	Wiring, ⇒ 9.4







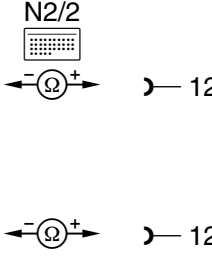


Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
9.3		03 Right front ETR squib (R12/B)	<p>X28/12</p> 	Remove ignition key. Disconnect X28/12. Connect  (22, Figure 4). Set resistance of 2 Ω. Ignition key in position "2".	✓ F	Wiring, ⇒ 9.4
9.4	005 007	03 Front passenger AB squib (R12/B) > Ω < Ω	<p>N2/2</p> 	Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	2 – 5 Ω	Wiring.
10.0	005 007	03 Front passenger AB squib (R12/B) Γ1- Γ1+	<p>N2/2</p> 	 not connected. Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	>20 kΩ >20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R.

16.3 Airbag (AB)

Models 129, 140, 170, 202, 208, 210

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)









⇒	 1)	Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
11.0	019 002	01 SRS MIL (A1e15) -/- ΓΓ+		Ignition key in position "2". A1e15 comes on.	A1e15 goes out after approx. 4 sec. ✓	F Wiring, A1e15 shorted to +.
12.0	024 016	09 Left front seat belt buckle switch (568/3) -/-  only		Ignition key in position "2". Seat belt buckle not latched. Seat belt buckle latched.	✓ OFF 00	F Wiring, Open/short circuit to circuit 31, Left ESA connector block (X55/3) not properly connected.
12.1		09 Left front seat belt buckle switch (568/3)  only ΓΓ- ΓΓ+	  6 — (— Ω —) — 12 5 — (— Ω —) — 12	Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).  not connected. Seat belt buckle not latched. Seat belt buckle latched. Seat belt buckle not latched. Seat belt buckle latched.	 280 – 580 Ω 70 – 279 Ω > 20 kΩ > 20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R, Seat belt buckle.

1) A DTC is recognized within 4 seconds after the ignition key is turned to position "2", or if a fault is present.

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Models 129, 140, 170, 202, 208, 210

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)











⇒	 1)	Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
13.0	025 017	08 Right front seat belt buckle switch (568/4) -//-  only		Ignition key in position "2". Seat belt buckle not latched. Seat belt buckle latched.	✓ F OFF ON	Wiring, Open/short circuit to circuit 31, Right ESA connector block (X55/4) not properly connected.
13.1		08 Right front seat belt buckle switch (568/4)  Γ1- Γ1+	 6 — (— Ω —) — 8 5 — (— Ω —) — 8	Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).  not connected. Seat belt buckle not latched. Seat belt buckle latched.	 280 – 580 Ω 70 – 279 Ω > 20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R, Seat belt buckle.

1) A DTC is recognized within 4 seconds after the ignition key is turned to position "2", or if a fault is present.

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Models 129, 140, 170, 202, 208, 210

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)


















⇒	 1)	Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
14.0		Squibs < Ω > Ω R12/1 R12/2 R12/3 R12/8 Squibs in series R12/1-R12/2 R12/1-R12/3 R12/1-R12/8 R12/2-R12/3 R12/2-R12/8 R12/3-R12/8	 1 —(— Ω +)— 2 3 —(— Ω +)— 4 10 —(— Ω +)— 11 13 —(— Ω +)— 14 Γ1 1 —(— Ω +)— 3 1 —(— Ω +)— 10 1 —(— Ω +)— 13 3 —(— Ω +)— 10 3 —(— Ω +)— 13 10 —(— Ω +)— 13	Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).  not connected.	2 – 5 Ω 2 – 5 Ω 3 – 5 Ω 2 – 5 Ω > 20 kΩ > 20 kΩ > 20 kΩ > 20 kΩ > 20 kΩ > 20 kΩ	Wiring, Short circuit.
15.0		 Left side airbag squib (R12/9) > Ω < Ω (only with left/right side airbag equipped vehicles)		 connected. Ignition key in position "2".	✓ F	⇒ 15.1

1) A DTC is recognized within 4 seconds after the ignition key is turned to position "1", or if a fault is present.

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Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒	 1)	Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
15.1		<p> Left side airbag squib (R12/9)</p> <p>(except Model 202 as of 06/97, Model 210 as of 03/97, Model 208)</p> <p>(Model 202 as of 07/97, Model 210 as of 03/97, Model 208)</p>	<p>X35/1</p> <p>1 —   2</p> <p>X35/41</p> <p>1 —   2</p>	<p>Remove ignition key. Disconnect left front door separation point. Connect  (22, Figure 4). Set resistance of 2 Ω. Ignition key in position "2".</p>	<p>✓</p> <p>F</p>	<p>⇒ 15.2</p>
15.2		<p> Left side airbag squib (R12/9)</p>	<p>R12/9</p> <p>1 —   2</p>	<p>Remove ignition key. Remove interior door panel. Connect  (22, Figure 5). Set resistance of 2 Ω. Ignition key in position "2".</p>	<p>✓</p> <p>F</p>	<p>Left side airbag, ⇒ 15.3</p>
15.3		<p> Left side airbag squib (R12/9)</p> <p>> Ω</p> <p>< Ω</p>	<p>N2/2</p> <p>16 —   17</p>	<p>Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).</p>	<p>2 – 5 Ω</p>	<p>Wiring, Contacts.</p>

1) A DTC is recognized within 4 seconds after the ignition key is turned to position "1", or if a fault is present.

16.3 Airbag (AB)

Models 129, 140, 170, 202, 208, 210



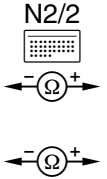





Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/ display	Possible cause/Remedy
15.4		010 Left side airbag squib (R12/9) 17- 17+		connected. Remove ignition key. Disconnect N2/2 connector. Connect (22, Figure 1).	>20 kΩ >20 kΩ	Wiring, Short to circuit 31, 30, 15, 15R.
16.0	018	012 Left side airbag sensor (A53) Voltage supply (only with left/right side airbag equipped vehicles).		Disconnect connector at A53. Connect test cable: (22, Figure 6).	11 – 14 V	Wiring.
16.1	018	012 Left side airbag sensor (A53) Wiring fault		Connect (22, Figure 6).	<1 Ω	Wiring.

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Electrical Test Program - Test (driver/passenger-side airbag/side airbag)






















⇒	 1)	Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
16.2		012 Left side airbag sensor (R53) Insulation fault 17-	 <p>6 — ◀ — Ω — ▶ — 20 5 — ◀ — Ω — ▶ — 20</p>	Connect  (22, Figure 5). Disconnect connector at A53.	>20 kΩ >20 kΩ	Wiring shorted to circuit 31 Wiring shorted to circuit 30, 15, 15R.
17.0		010 Right side airbag squib (R12/10) > Ω < Ω (only with left/right side airbag equipped vehicles).		Ignition key in position "2".	✓ F ⇒ 17.1	
17.1		010 Right side airbag squib (R12/10) (except model 202 as of 06/97, Model 210 as of 03/97, Model 208) (Model 202 as of 07/97, Model 210 as of 03/97, Model 208)	 <p>1 — ◀ — X35/1 — ▶ — 2</p>  <p>1 — ◀ — X35/42 — ▶ — 2</p>	Remove ignition key. Disconnect left door separation point connector. Set resistance of 2 Ω. (22, Figure 3). Ignition key in position "2".	✓ F ⇒ 17.2	

1) A DTC is recognized within 4 seconds after the ignition key is turned to position "1", or if a fault is present.























16.3 Airbag (AB)

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Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
17.2		 Right side airbag squib (R12/I0)	R12/9  1 — () — 2	Remove ignition key. Remove door trim panel. Set resistance of 2 Ω. (22, Figure 5). Ignition key in position "2".	✓ F	Left side airbag, ⇒ 17.3
17.3		 Right side airbag squib (R12/I0) > Ω < Ω	N2/2  18 — () — 19	Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	2 – 5 Ω	Wiring, Contacts.
17.4		 Right side airbag squib (R12/I0) Γ1- Γ1+	N2/2  6 — () — 18  5 — () — 18	 connected. Remove ignition key. Disconnect N2/2 connector. Connect  (22, Figure 1).	>20 kΩ >20 kΩ	Wiring, Short in wiring circuit 31, Short in wiring circuit 30, 15, 15R
18.0		 Right side airbag sensor (A54) Voltage supply (only with left/right side airbag equipped vehicles).	A54  1 — () — 3	Disconnect A54 connector. Connect test cable, see (22, Figure 6).	11 – 14 V	Wiring.

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
18.1	 021	012 Right side airbag sensor (R54) Wiring fault	N2/2  21 —(—( +) —) 3	A54 Connect  (22, Figure 1).	< 1 Ω	Wiring.
18.2	 021	012 Right side airbag sensor (R54) Insulation fault	N2/2  6 —(—( +) —) 21 5 —(—(—) 21	Connect  (22, Figure 1). Disconnect connector at A54	>20 kΩ >20 kΩ	Short in wiring circuit 31, Short in wiring circuit 30, 15, 15R
19.0	 020  024  025	04 Front passenger seat occupied recognition sensor (B41/1) or (B48)		Ignition key in position "2".	✓ F ⇒ 19.1	
19.1		04 Front passenger seat occupied recognition sensor (B41/1) or (B48)	X55/4 3 —( —) 4  X55/4 3 —( —) 4  X28/18 3 —( —) 4 	 connected. Connect  (22, Figure 7). Set resistance of 30 k Ω (seat occupied), use diode 1N4007 as well as 300 Ω resistor, switched in parallel. Watch polarity!	✓ F ⇒ 19.2	Contact matt, ⇒ 19.2

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




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⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/ display	Possible cause/Remedy
19.2		04 Front passenger seat occupied recognition sensor (B41/1) or (B4B)	<p>X55/3 X55/4</p> <p>3 — — 4</p>	<p>Front passenger seat not occupied:</p> <p>Front passenger seat occupied:</p>	<p>>70 k Ω</p> <p>30 k Ω</p>	Contact matt.
20.0	027 028	<p>Front passenger seat occupied recognition with automatic child seat recognition (B4B) (ACSR)</p> <p>Voltage supply</p> <p>Except for Model 129:</p> <p>Model 129:</p>	<p>X55/3 X55/4</p> <p>1 — — 4</p> <p>X28/18</p> <p>1 — — 4</p>	Ignition key in position "1".	11 – 14 V	Wiring.
20.1		<p>Data line</p> <p>Except for Model 129:</p> <p>Model 129:</p>	<p>N2/2 </p> <p>1 — — 3</p> <p>N2/2 </p> <p>15 — — 3</p>	<p>X55/3 X55/4</p> <p>Connect (22, Figure 1).</p> <p>X28/18</p>	< 1 Ω	Wiring.

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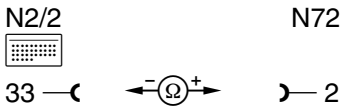

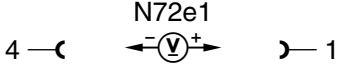
Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
21.0		Automatic child seat recognition (ACSR) indicator lamp (E 16) Voltage supply (Models 129, 140, 170 only)	4 —  — 1	Ignition key in position "1".	11 – 14 V	Wiring, If values are OK: E13
21.1		Automatic child seat recognition (ACSR) indicator lamp (E 16) Dimming	4 —  — 1	Ignition key in position "1". Switch on exterior lamps.	<1 V 11 – 14 V	Wiring.
21.2		Automatic child seat recognition (ACSR) indicator lamp (E 16) Activation	N2/2  33 —  — 2	Connect  (22, Figure 1).	<1 Ω	Wiring.

16.3 Airbag (AB)

Models 129, 140, 170, 202, 208, 210

Electrical Test Program - Test (driver/passenger-side airbag/side airbag)

⇒		Test scope/ Actual value no. and text	Test connection	Test condition	Nominal value/  display	Possible cause/Remedy
22.0		Automatic child seat recognition warning lamp (N72e1) Activation (Models 202, 208, 210)		Connect  (22, Figure 1).	<1 Ω	Wiring.
22.1		Automatic child seat recognition warning lamp (N72e1) Voltage supply (Model 208 only)		Ignition key in position "1". MB child seat " Babysafe " installed. Switch on exterior lamps:	11 – 14 V 7 – 9 V	Lower control field control module (N72).