

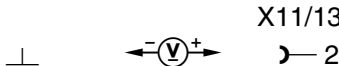




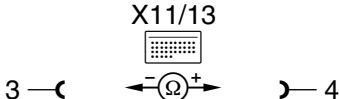


## 16.2 Airbag (AB)

Model 140

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

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		<b>Voltage supply</b> Circuit 15R		Ignition: <b>OFF</b> Disconnect and cover battery negative terminal. Disconnect SRS test connection (X11/13).  Ignition key in position "1".	11 – 14 V	Wiring, Battery voltage, Ignition/starter switch (S2/1).
2.0		<b>SRS control module (N2/2)</b>		Ignition: <b>ON</b> Erase DTC 	DTC  erased.	SRS control module (N2/2), (SMS, Job No. 91-622).
3.0		<b>Driver airbag squib (R12/3)</b>		Ignition: <b>OFF</b> Disconnect and cover battery negative terminal. Disconnect SRS test connection (X11/13). Connect test cable according to connection diagram. Turn steering wheel from full right to full left stop.	2–5 Ω	Wiring, < 2 Ω short circuit, > 5 Ω open circuit, Driver airbag squib connector (X28/4) not connected. Slip ring or Clock spring contact, Driver airbag (SMS, Job No. 91-660), ⇒ 3.1

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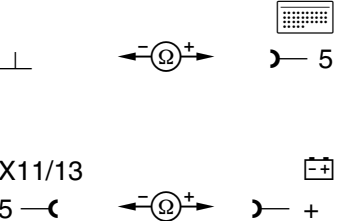
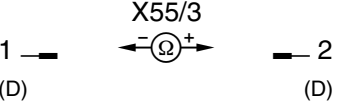
### Electrical Test Program – Test (driver/passenger-side airbag)

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.1	3	Isolation resistance	<p>X11/13</p> <p>3 — 31</p> <p>X11/13</p> <p>3 — 31</p>	<p>Turn ignition key to position “1” and “2”.</p>	<p>&gt; 20 kΩ</p> <p>&gt; 20 kΩ</p>	<p>Wiring, Short circuit to circuit 31.</p> <p>Wiring, Short circuit to circuits 15/15R/30, If nominal values are obtained but DTC 3 can not be erased, 32 ⇒ 1.0, 2.0, 23 ⇒ 9.0</p>
4.0	4	<b>Front passenger airbag squib (R12/8)</b>	<p>X11/13</p> <p>5 — 6</p>	<p>Ignition: <b>OFF</b> Disconnect and cover battery negative terminal. Disconnect SRS test connection (X11/13).</p>	<p>2–5 Ω</p>	<p>Wiring, &lt; 2 Ω short circuit, &gt; 5 Ω open circuit, Passenger side airbag (SMS, Job No. 91-680), ⇒ 4.1</p>


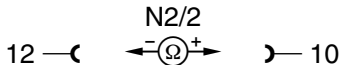
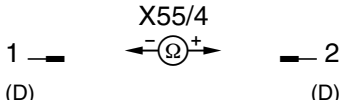
## 16.2 Airbag (AB)

## Model 140



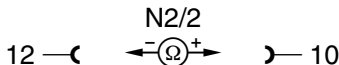

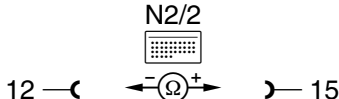

## Electrical Test Program – Test (driver/passenger-side airbag)

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.1	4	Isolation resistance		Turn ignition key to position "1" and "2".	> 20 kΩ  > 20 kΩ	Wiring, Short circuit to circuit 31.  Wiring, Short circuit to circuits 15/15R/30, If nominal values are obtained but DTC 4 can not be erased, 32 ⇒ 1.0, 2.0 23 ⇒ 10.0
5.0	5	Left front seat belt buckle switch (S68/3)		Ignition: <b>OFF</b> Disconnect and cover battery negative terminal. Disconnect SRS test connection (X11/13). Disconnect left seat contact strip (X55/3) connector D. Seat belt tongue in buckle: <b>Not latched</b>  <b>Latched</b>	400 Ω±10 Ω  100 Ω±10 Ω	Wiring, open circuit, Short circuit or shorted to circuit 31, Ground (W26), Seat belt buckle (SMS, Job No. 91-502).

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

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.1	5			Disconnect connector to control module (N2/2). Connect left seat contact strip (X55/3). Seat belt tongue in buckle: <b>Not latched</b>  <b>Latched</b>	400 $\Omega \pm 10 \Omega$  100 $\Omega \pm 10 \Omega$	Wiring, Seat belt buckle.
6.0	6	<b>Right front seat belt buckle switch (S68/4)</b>		Ignition: <b>OFF</b> Disconnect and cover battery negative terminal. Disconnect SRS test connection (X11/13). Disconnect right seat contact strip (X55/4) connector D. Seat belt tongue in buckle: <b>Not latched</b>  <b>Latched</b>	400 $\Omega \pm 10 \Omega$  100 $\Omega \pm 10 \Omega$	Wiring, open circuit, Short circuit or shorted to circuit 31, Ground (W26), Seat belt buckle (SMS, Job No. 91-502).

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

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.1				Disconnect connector to control module (N2/2). Connect right seat contact strip (X55/4). Seat belt tongue in buckle: <b>Not latched</b>  <b>Latched</b>	400 $\Omega \pm 10 \Omega$  100 $\Omega \pm 10 \Omega$	Wiring, Seat belt buckle.
7.0		<b>Front passenger airbag</b> Resistance		Ignition: <b>OFF</b> Disconnect and cover battery negative terminal. Disconnect SRS test connection (X11/13). Disconnect control module (N2/2) connector.	100 $\Omega \pm 10 \Omega$	Wiring, Ground (W26), Resistance in connector to control module (N2/2).
8.0		<b>SRS MIL (A1e15)</b>		Ignition key in position "1".	SRS MIL (A1e15) comes on and then goes out after approx. 4 seconds.	Wiring, F3-15, SRS MIL (A1e15), Intermittent short circuit to circuit 31 (X11/4 - A1e15), Time limit for DTC readout/erase exceeded.
















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

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.0	3	<b>Wiring</b>	<p>X11/3      N2/2</p> <p>3 —  — 6</p> <p>4 —  — 2</p> <p>2 —  — 6</p> <p style="text-align: center;">N2/2</p>	<p>Ignition: <b>OFF</b></p> <p>Disconnect and cover battery negative terminal.</p> <p>Disconnect SRS test connection (X11/13).</p> <p>Disconnect control module (N2/2) connector.</p>	<p>&lt;1 Ω</p> <p>&gt;20 kΩ</p>	<p>Wiring.</p> <p>Short circuit, ⇒ 9.1</p>
9.1	3	Isolation resistance	<p>⊥            X11/3</p> <p>⊥            4</p> <p>⊥            3</p> <p>X11/3      </p> <p>4 —  — +</p> <p>3 —  — +</p>	<p>Turn ignition key to position “1” and “2”.</p>	<p>&lt;20 k Ω</p> <p>&lt;20 k Ω</p>	<p>Short circuit to 31</p> <p>Short to circuits 15/15R/30</p>

## 16.2 Airbag (AB)

## Model 140

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

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
10.0	4	<b>Wiring</b>	<p>X11/3                      N2/2</p> <p>5 —   13</p> <p>6 —   2</p> <p>2 —   13</p>	<p>Ignition: <b>OFF</b></p> <p>Disconnect and cover battery negative terminal.</p> <p>Disconnect SRS test connection (X11/13).</p> <p>Disconnect control module (N2/2) connector.</p>	<p>&lt;1 Ω</p> <p>&gt;20 kΩ</p>	<p>Wiring.</p> <p>Short circuit, ⇒ 10.1</p>
10.1	4	Isolation resistance	<p>X11/3</p> <p>  5</p> <p>  6</p> <p>X11/3</p> <p>  +</p> <p>  +</p>	<p></p>	<p>&lt;20 k Ω</p> <p>&lt;20 k Ω</p>	<p>Short circuit to 31</p> <p>Short to circuits 15/15R/30</p>

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

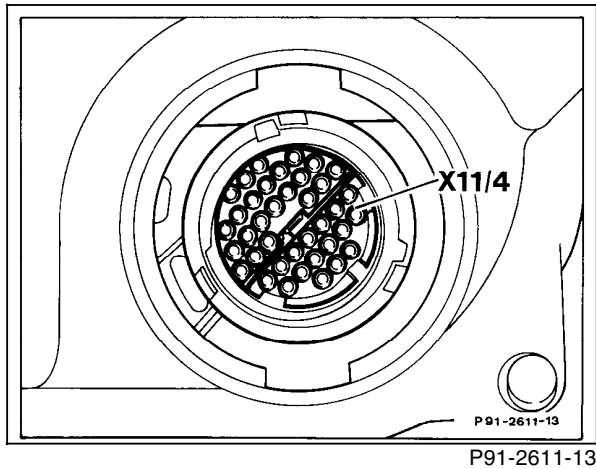


Figure 1

X11/4 Data link connector (38-pole)

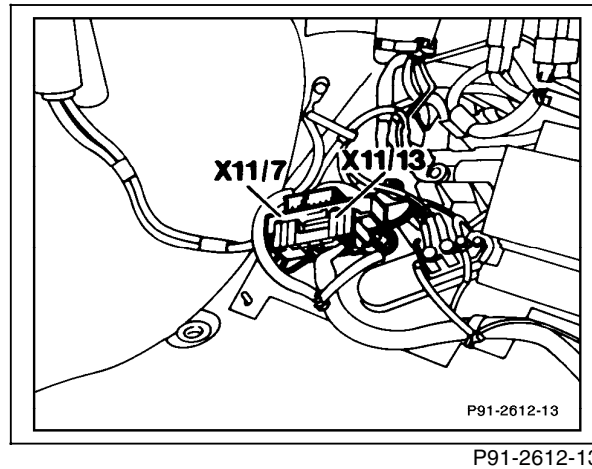


Figure 2

X11/7 ETR test connection (4-pole)  
X11/13 SRS test connection (12-pole)

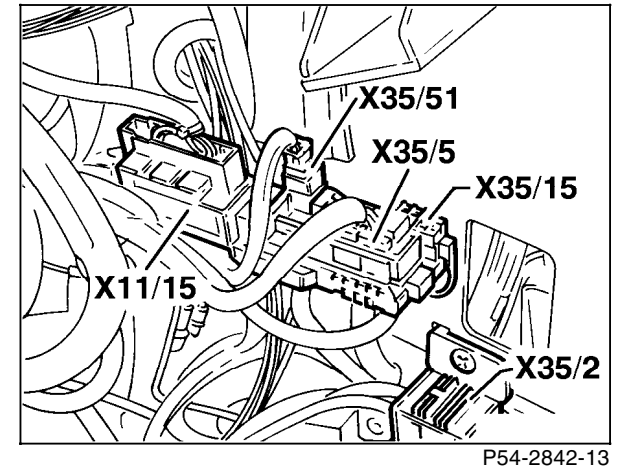
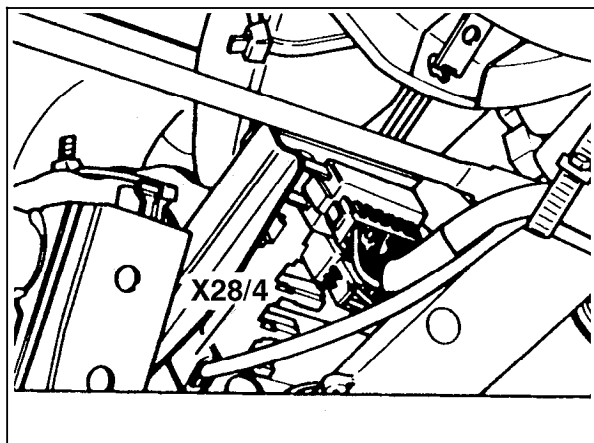


Figure 3

X11/15 Diagnostic connector (taillamp harness)

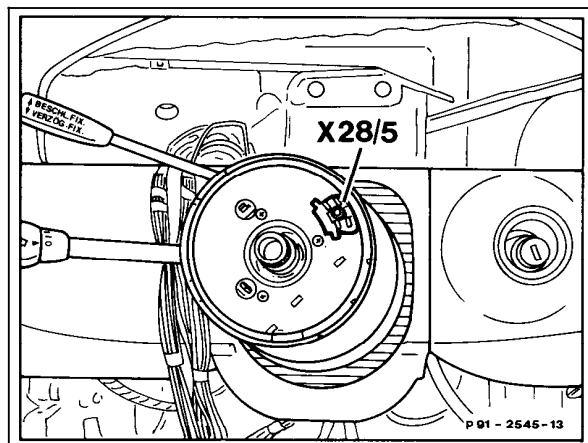
### Electrical Test Program – Test (driver/passenger-side airbag)



P91-2607-13

Figure 4

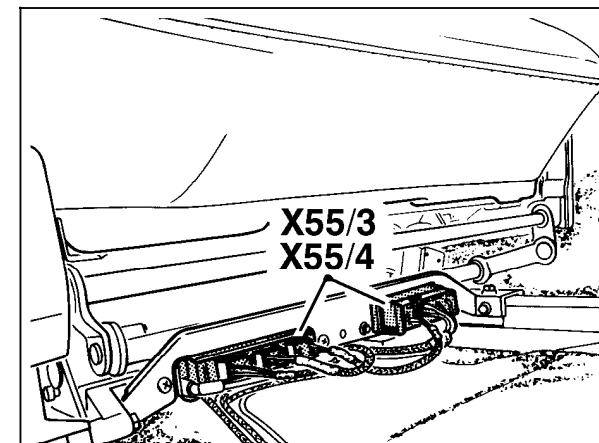
X28/4 Driver airbag squib connector



P91-2545-13

Figure 5

X28/5 Airbag squib slip ring (2-pole)

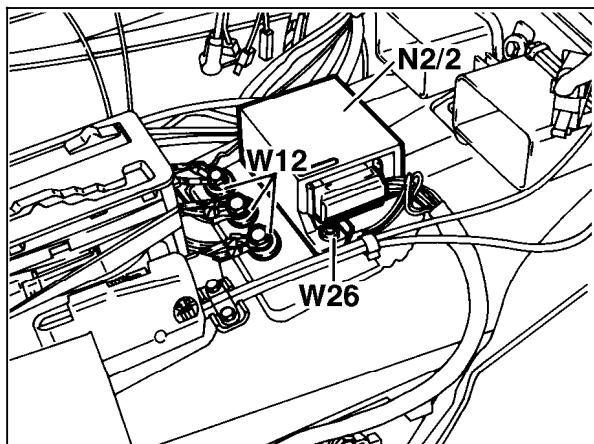


P54-5012-13

Figure 6

X55/3 Left seat contact strip  
X55/4 Right seat contact strip

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



P91-2606-13

Figure 7

W26     Ground (SRS control module)  
N2/2     SRS control module