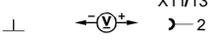
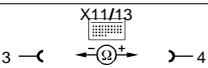
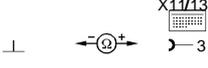
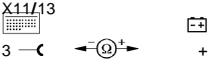


**Test program - Electrical system      Testing**

Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 1.0 <b>Fault code</b>	<b>Power supply</b> Terminal 15R		Ignition: <b>OFF</b> Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag with belt tensioner 12-pin (X11/13) (fig. 2 or 9). Turn ignition key to position "1".	11-14 V	Wiring Battery voltage Ignition/starter switch
⇒ 2.0	<b>Seat belt tensioner control unit with airbag (N2/2)</b>		Ignition: <b>ON</b> Delete fault code 2.	Fault code 2 deleted.	N2/2 (RI 91-622)

**Test program - Electrical system      Testing**

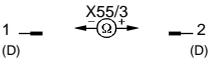
Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 3.0 <b>Fault code</b>	<b>Driver's airbag ignition circuit</b>		Turn ignition key to position "0" Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag with belt tensioner 12-pin (X11/13) (fig. 2 or 9). Turn steering wheel from right stop to left stop.	2-5 Ω	Wiring <2 Ω short circuit >5 Ω discontinuity <b>Model 140:</b> Plug connection, 2-pin (X28/4) not connected (fig. 4). <b>Model 202:</b> Plug connection, 2-pin (A45x1) not connected (fig. 10). Slip ring or contact spiral Driver's airbag unit (91-660) ⇒ 3.1
⇒ 3.1	<b>Insulation resistance</b>	 	Turn ignition key to position "1" and "2".	>20 kΩ >20 kΩ	Wiring Short circuit to terminal 31  Wiring Short circuit to terminal 15/15R/30 If nominal values are achieved and fault code 3 still cannot be deleted: □ 32 ⇒ 1.0, 2.0 □ 23 ⇒ 9.0

**Test program - Electrical system      Testing**

Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 4.0 <b>Fault code</b>	<b>Front passenger airbag ignition circuit</b>		Turn ignition key to position "0". Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag with belt tensioner, 12-pin (X11/13) (fig. 2 or 9).	2-5 Ω	Wiring <2 Ω short circuit >5 Ω discontinuity Passenger airbag unit (91-680) ⇒ 4.1
⇒ 4.1	<b>Insulation resistance</b>	 	Turn ignition key to position "1" and "2".	>20 kΩ >20 kΩ	Wiring Short circuit to terminal 31  Wiring Short circuit to terminal 15/15R/30 If nominal values are achieved and fault code 4 cannot be deleted: □ 32 ⇒ 1.0, 2.0 □ 23 ⇒ 10.0

**Test program - Electrical system      Testing**

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Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 5.0 <b>Fault code</b>	<b>Driver's seat belt buckle switch (airbag (AB)/seat belt tensioner (GUS)) (S68/3)</b>		Turn ignition key to position "0" Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag with belt tensioner, 12-pin (X11/13) (fig. 2 or 9). Disconnect connection board, left seat (X55/3), connector D (fig. 6 or 11). Locking tongue: <b>not inserted</b> in belt buckle <b>inserted</b> in belt buckle	400 Ω ± 10 Ω 100 Ω ± 10 Ω	Wiring, discontinuity Short circuit or short circuit to terminal 31 Ground, seat belt tensioner control unit/airbag (W26) Belt buckle (RI 91-502)
⇒ 5.1	5		In addition disconnect connector on seat belt tensioner control unit with airbag (N2/2), connect (X55/3). Locking tongue: <b>not inserted</b> in belt buckle. <b>inserted</b> in belt buckle	400 Ω ± 10 Ω 100 Ω ± 10 Ω	Wiring Belt buckle

### Test program - Electrical system Testing

Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 6.0 <b>Fault code</b>	<b>Front passenger seat belt buckle switch (airbag (AB)/seat belt tensioner (GUS)) (S68/4)</b>		Turn ignition key to position "0" Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag with belt tensioner, 12-pin (X11/13) (fig. 2 or 9). Disconnect connection board, right seat (X55/4), connector D (fig. 6 or 11). Locking tongue: <b>not inserted</b> in belt buckle <b>inserted</b> in belt buckle	400 Ω ± 10 Ω 100 Ω ± 10 Ω	Wiring, discontinuity Short circuit or short circuit to terminal 31 Ground, seat belt tensioner control unit/airbag (W26) Belt buckle (RI 91-502)
⇒ 6.1	6		In addition disconnect connector on seat belt tensioner control unit with airbag (N2/2), connect (X55/4). Locking tongue: <b>not inserted</b> in belt buckle <b>inserted</b> in belt buckle	400 Ω ± 10 Ω 100 Ω ± 10 Ω	Wiring Belt buckle

### Test program - Electrical system Testing

Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 7.0 <b>Fault code</b>	<b>Passenger airbag Resistance</b>		Turn ignition key to position "0" Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag with belt tensioner, 12-pin (X11/13) (fig. 2 or 9). Disconnect connector on seat belt tensioner control unit with airbag (N2/2) (fig. 7 or 12).	100 Ω ± 10 Ω	Wiring Ground, seat belt tensioner control unit/airbag (W26) Resistance in connector (N2/2)
⇒ 8.0	<b>Airbag indicator/warning lamp SRS (A1e15)</b>	-	Turn ignition key to position "1".	Airbag indicator / warning lamp SRS comes on and goes out after approx. 4 s.	Wiring <b>Model 140:</b> Fuse F3-15 <b>Model 202:</b> F3-26 A1e15 Times for reading out and deleting fault memory not maintained. Occasional short circuit to terminal 31 (X11/4-A1e15)

### Test program - Electrical system Testing

Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 9.0 Fault code	<b>Wiring</b> 3	X11/13 3 — ◀ — ⊖ — ⊕ — ▶ — 6 4 — ◀ — ⊖ — ⊕ — ▶ — 2  N2/2 2 — ◀ — ⊖ — ⊕ — ▶ — 6	Ignition: <b>OFF</b> Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag, 12-pin (X11/13) (fig. 2 or 9) Disconnect connector on seat belt tensioner control unit with airbag (N2/2).	<1 Ω  >20 kΩ	Wiring  Short circuit ⇒ 9.1
⇒ 9.1	Insulation resistance 3	⊥ — ◀ — ⊖ — ⊕ — ▶ — 4 ⊥ — ◀ — ⊖ — ⊕ — ▶ — 3  X11/13 4 — ◀ — ⊖ — ⊕ — ▶ — + 3 — ◀ — ⊖ — ⊕ — ▶ — +	Turn ignition key to position "1" and "2".	>20 kΩ  >20 kΩ	Short circuit to terminal 31  Short circuit to terminal 15/15R/30

### Prüfprogramm-Elektrik Testing (driver's and passenger airbag)

Test step	Scope of test	Measuring instrument/ Test connection	Action/ Prerequisite	Nominal value	Possible cause/Remedy
⇒ 10.0 Fault code	<b>Wiring</b> 4	X11/13 5 — ◀ — ⊖ — ⊕ — ▶ — 13 6 — ◀ — ⊖ — ⊕ — ▶ — 2  N2/2 2 — ◀ — ⊖ — ⊕ — ▶ — 13	Ignition: <b>OFF</b> Disconnect negative pole on battery and cover. Disconnect test coupling/plug connection, airbag, 12-pin (X11/13) (fig. 2 or 9) Disconnect connector on seat belt tensioner control unit with airbag (N2/2).	<1 Ω  >20 kΩ	Wiring  Short circuit ⇒ 10.1
⇒ 10.1	Insulation resistance 4	⊥ — ◀ — ⊖ — ⊕ — ▶ — 5 ⊥ — ◀ — ⊖ — ⊕ — ▶ — 6  X11/13 5 — ◀ — ⊖ — ⊕ — ▶ — + 6 — ◀ — ⊖ — ⊕ — ▶ — +		>20 kΩ  >20 kΩ	Short circuit to terminal 31  Short circuit to terminal 15/15R/30

### Test program - Electrical system

### Testing

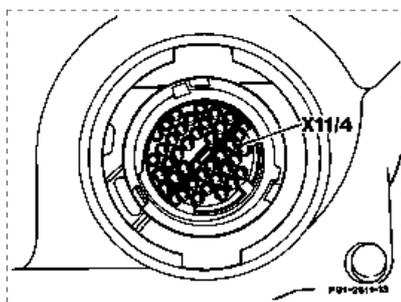


Fig. 1, model 140

X11/4 Test coupling for diagnosis, pulse readout (38-pin)

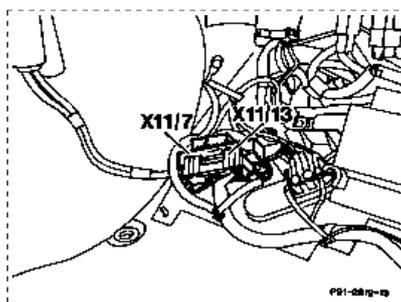


Fig. 2, model 140

X11/7 Test coupling/plug connection, seat belt tensioner (GUS)  
X11/13 Test coupling/plug connection, airbag (AB) with seat belt tensioner (GUS) (12-pin)

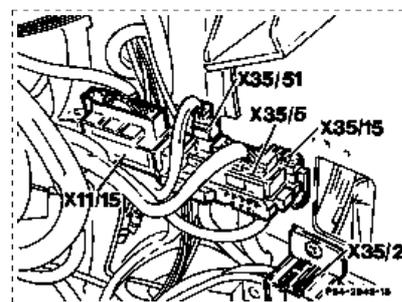


Fig. 3, model 140

X11/15 Intermediate plug connector, diagnostics/taillamp harness (16-pin)

### Test program - Electrical system

### Testing

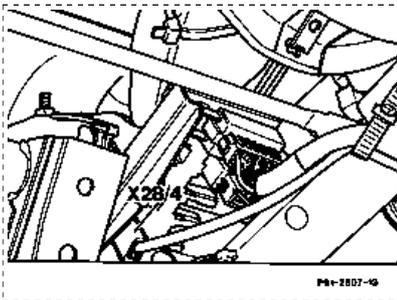


Fig. 4, model 140

X28/4 Plug connection, driver airbag (AB) squib (2-pin)

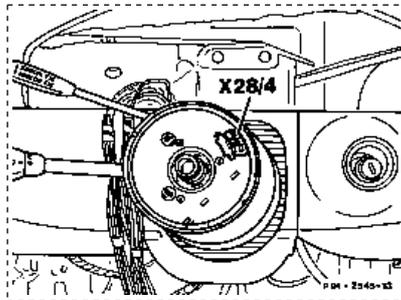


Fig. 5, model 140

X28/5 Airbag (AB) squib slip ring (2-pin)

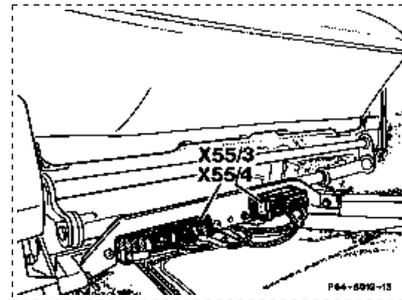


Fig. 6, model 140

X55/3 Connection board, left seat  
X55/4 Connection board, right seat

### Test program - Electrical system

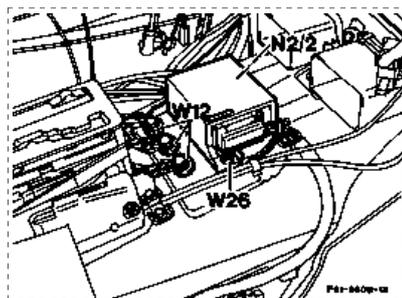


Fig. 7, model 140

W26 Ground, seat belt tensioner (GUS) control unit/airbag (AB)  
N2/2 Seat belt tensioner (GUS) control unit with airbag (AB)

### Testing

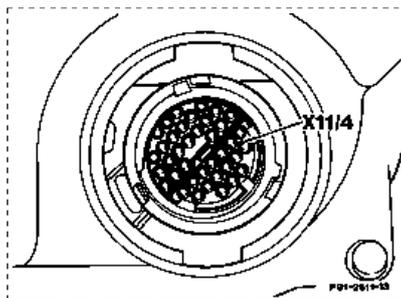


Fig. 8, model 202

X11/4 Test coupling for diagnosis, pulse readout (38-pin)

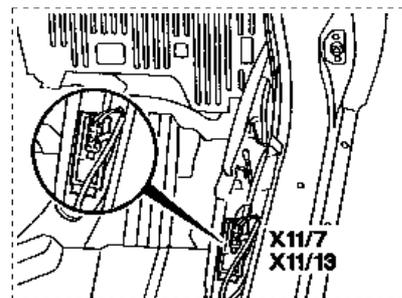


Fig. 9, model 202

X11/7 Test coupling/plug connection, seat belt tensioner (GUS) (4-pin)  
X11/13 Test coupling/plug connection, airbag (AB) with seat belt tensioner (GUS) (12-pin)

### Test program - Electrical system

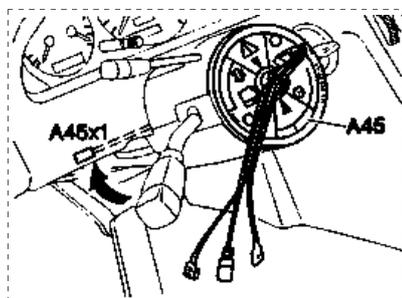


Fig. 10, model 202

A45x1 Plug connection, driver airbag (AB)/squib, 2-pin

### Testing

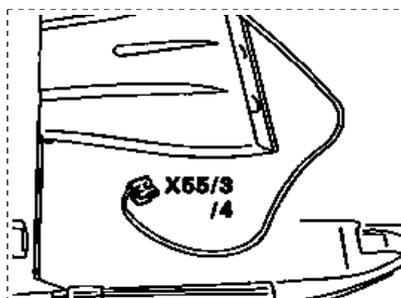


Fig. 11, model 202

X55/3 Connection board, left seat  
X55/4 Connection board, right seat

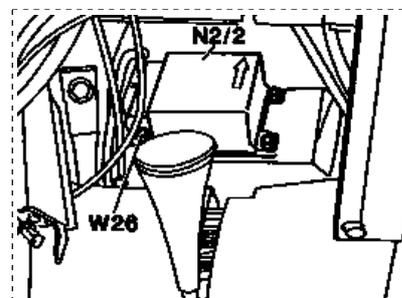


Fig. 12, model 202

W26 Ground, seat belt tensioner (GUS) control unit/airbag (AB)  
N2/2 Seat belt tensioner (GUS) control unit with airbag (AB)