

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	2 032 127	<b>Voltage supply Circuit 30</b>	<p>N52 X1 </p> <p>4 —( —(V) + — )— 1</p> <p>11 —( —(V) + — )— 8</p> <p>7 —( —(V) + — )— 5</p>		11 – 14 V 11 – 14 V 11 – 14 V	Wiring.
2.0	2 032	<b>Voltage supply Circuit 15, 31 (low voltage)</b>  Up to 9/95	<p>N52 X1 </p> <p>4 —( —(V) + — )— 2</p>	Ignition: <b>ON</b>	11 – 14 V	Wiring, ⇒ 2.1
2.1	2 032	Voltage supply Circuit 31  As of 9/95	<p>N52 X2 </p> <p>47 —( —(V) + — )— +</p>		11 – 14 V	Wiring.

# 11.3 Roadster Soft Top (RST), Roll Bar (RB) (Manual Deployment)

Model 129 as of 1/94


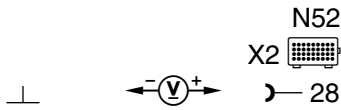
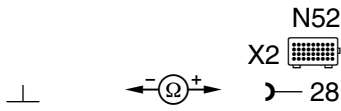
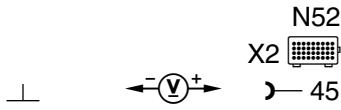
## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.0	5 048 049 052 080	Control signal to RST/RB hydraulic unit (A7/5)		Ignition: <b>ON</b>  Move power soft top switch (S84) toward <b>Open</b> or <b>Close</b> .	0 – 1 V  11 – 14 V  Hydraulic unit runs.	⇒ 18.0, N52.  ⇒ 3.1, ⇒ 3.2, ⇒ 3.3, Wiring.
3.1		Activation of RST/RB hydraulic unit relay (A7/5k1)		Ignition: <b>OFF</b> Unplug connector A7/5x1. Ignition: <b>ON</b>  Move power soft top switch (S84) toward <b>Open</b> or <b>Close</b> .	0 – 1 V  11 – 14 V	Power soft top switch (S84), Wiring, Power soft top control module (N52).
3.2		RST/RB hydraulic unit motor (A7/5m1) Voltage supply		Unplug connector A7/5x1.	11 – 14 V	Wiring.


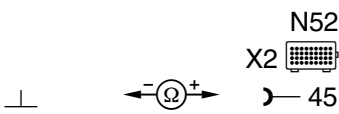

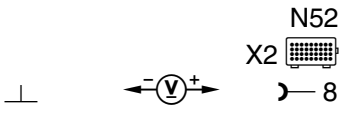
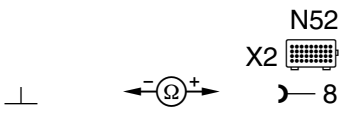
## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.3		RST/RB hydraulic unit motor (A7/5m1)	 A7/5x1 1 — 4	Unplug connector A7/5x1. Remove relay A7/5k1. Bridge sockets 1 and 3 of relay connector A7/5k1.	0.1 – 1.5 Ω	A7/5m1 (SMS, Job No. 77-350).
4.0		<b>Right soft top cover “locked” switch (A25s2)</b> Voltage supply	 N52 X2 7	Power soft top control module in diagnostic mode, see 22. Soft top compartment cover:  <b>locked</b>  <b>unlocked</b>	0 – 1 V  11 – 14 V	⇒ 4.1, N52.
4.1		A25s2 Resistance	 N52 X2 7	Ignition: <b>OFF</b> Disconnect test cable from N52. Soft top compartment cover:  <b>locked</b>  <b>unlocked</b>	0 – 5 Ω  >20 kΩ	A25s2 (SMS, Job No. 77-440), Wiring.

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	7 116	<b>Left soft top fabric bow “locked” switch (A22s2)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Fabric bow: <b>locked</b> <b>unlocked</b>	 0 – 1 V 11 – 14 V	⇒ 5.1, N52.
5.1		A22s2 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Fabric bow: <b>locked</b> <b>unlocked</b>	 0 – 5 Ω >20 kΩ	A22s2 (SMS, Job No. 77-445), Wiring.
6.0	7 117	<b>Right soft top bow “locked” switch (A23s2)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Fabric bow: <b>locked</b> <b>unlocked</b>	 0 – 1 V 11 – 14 V	⇒ 6.1, N52.

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.1		A23s2 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Fabric bow: <b>locked</b> <b>unlocked</b>	0 – 5 Ω >20 kΩ	A23s2 (SMS, Job No. 77-445), Wiring.
7.0	7 	Left soft top bow “closed” switch (A22s1) Voltage supply		Power soft top control module in diagnostic mode, see 22. Fabric bow: <b>closed</b> <b>raised</b>	0 – 1 V 11 – 14 V	⇒ 7.1, N52.
7.1		A22s1 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Fabric bow: <b>closed</b> <b>raised</b>	0 – 5 Ω >20 kΩ	Wiring, A22s1 (SMS, Job No. 77-445), A/C pushbutton control module (N22),

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
8.0	7 112	<b>Left front soft top “locked” switch (S84/1)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Soft top: <b>locked in front</b> <b>unlocked in front</b>	0 – 1 V 11 – 14 V	⇒ 8.1, N52.
8.1		S84/1 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Soft top: <b>locked in front</b> <b>unlocked in front</b>	0 – 5 Ω >20 kΩ	S84/1 (SMS, Job No. 77-330), Wiring.
9.0	7 113	<b>Right front soft top “locked” switch (S84/2)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Soft top: <b>locked in front</b> <b>unlocked in front</b>	0 – 1 V 11 – 14 V	⇒ 9.1, N52.


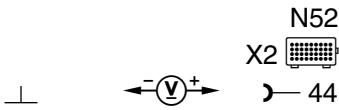
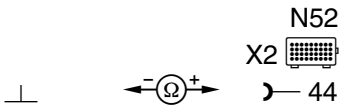
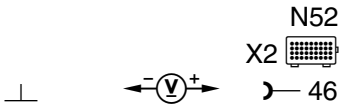
### 11.3 Roadster Soft Top (RST), Roll Bar (RB) (Manual Deployment)

Model 129 as of 1/94

#### Electrical Test Program – Test





⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.1		S84/2 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Soft top: <b>locked in front</b> <b>unlocked in front</b>	0 – 5 Ω >20 kΩ	S84/2 (SMS, Job No. 77-330), Wiring.
10.0		Soft top compartment “open” switch (S84/5) Voltage supply		Power soft top control module in diagnostic mode, see 22. Soft top compartment cover: <b>open</b> <b>closed</b>	0 – 1 V 11 – 14 V	⇒ 10.1, N52.
10.1		S84/5 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Soft top compartment cover: <b>open</b> <b>closed</b>	0 – 5 Ω >20 kΩ	S84/5 (SMS, Job No. 77-405), Wiring.

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
11.0	7 119	<b>Soft top fabric bow “raised” switch (S84/6)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Fabric bow: <b>raised</b> <b>lowered, locked</b>	 0 – 1 V 11 – 14 V	⇒ 11.1, N52.
11.1		S84/6 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Fabric bow: <b>raised</b> <b>lowered</b>	 0 – 5 Ω >20 kΩ	Wiring, S84/6 (SMS, Job No. 77-435).
12.0	7 115	<b>Soft top “open” switch (soft top in compartment) (S84/3)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Soft top: <b>in compartment</b> <b>raised</b>	 0 – 1 V 11 – 14 V	⇒ 12.1, N52.



## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
12.1		S84/3 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Soft top: <b>in compartment</b> <b>raised</b>	0 – 5 Ω >20 kΩ	Wiring, S84/3 (SMS, Job No. 77-425).
13.0	7 114	<b>Soft top “closed“ switch (S84/4)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Soft top: <b>closed</b> <b>in compartment</b>	0 – 1 V 10 – 12 V	⇒ 13.1, N52.
13.1		S84/4 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Soft top: <b>closed</b> <b>in compartment</b>	Approx. 33 Ω >20 kΩ	S84/4, Wiring.

# 11.3 Roadster Soft Top (RST), Roll Bar (RB) (Manual Deployment)

Model 129 as of 1/94

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
14.0	7 122 146	<b>RB “retracted“ switch (S83/1)</b> Voltage supply		Power soft top control module in diagnostic mode, see 22. Roll bar:  <b>lowered</b>  <b>raised</b>	   0 – 1 V  11 – 14 V	⇒ 14.1, N52.
14.1		S83/1 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Roll bar:  <b>lowered</b>  <b>raised</b>	   0 – 5 Ω  >20 kΩ	Wiring, S83/1 (SMS, Job No. 77-400).
15.0	6 125	<b>Left front window “down“ limit switch (S21/9) <sup>1)</sup></b> Voltage supply		Ignition: <b>ON</b> Left front window:  <b>down</b>  <b>up</b>	   0 – 1 V  11 – 14 V	⇒ 15.1, N52.

1) Up to 12/94

#### Electrical Test Program – Test


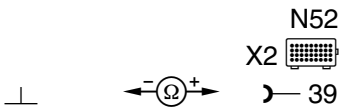
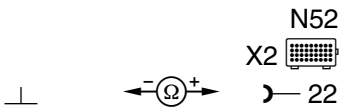

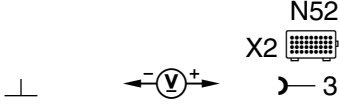
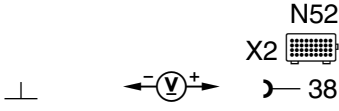
⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
15.1		S21/9 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Left front window: <b>down</b> <b>up</b>	0 – 5 $\Omega$ >20 k $\Omega$	Wiring, S21/9.
16.0		Right front door “window down“ limit switch (S21/8) <sup>1)</sup> Voltage supply		Ignition: <b>ON</b> Right front window: <b>down</b> <b>up</b>	0 – 1 V 11 – 14 V	⇒ 16.1, N52.
16.1		S21/8 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Right front window: <b>down</b> <b>up</b>	0 – 5 $\Omega$ >20 k $\Omega$	Wiring, S21/8.

<sup>1)</sup> Up to 12/94

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
17.0	9 144	<b>RB control module (N53)</b> Voltage supply up to 9/95		Ignition: <b>ON</b>	> 2.4 V	Wiring, Fault in RB system (DM, Body & Access., Vol. 5, section 19.2), N53 (SMS, Job No. 91-840).
					> 2.4 V	
18.0	10 160	<b>Power soft top switch (S84)</b> Voltage supply		Ignition: <b>ON</b> Press S84 towards <b>close</b>	11 – 14 V 0 – 1 V	⇒ 18.1, N52.
				Ignition: <b>ON</b> Press S84 towards <b>open</b>	11 – 14 V 0 – 1 V	

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
18.1		S84 Resistance		Disconnect test cable from N52. S84 in rest position  Press S84 towards <b>close</b>	>20 kΩ  0 – 5 Ω	Wiring, ⇒ 18.2, S84.
18.2		S84 Resistance		S84 in rest position  Press S84 towards <b>open</b>	>20 kΩ  0 – 5 Ω	Wiring, S84.
19.0		<b>RB switch (manual operation) (S83)</b> Voltage supply	 	Ignition: <b>ON</b>  Press S83 towards <b>raise</b>  Ignition: <b>ON</b>  Press S83 towards <b>lower</b>	11 – 14 V  0 – 1 V  11 – 14 V  0 – 1 V	⇒ 19.1, Wiring, N52.


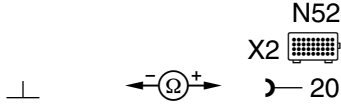

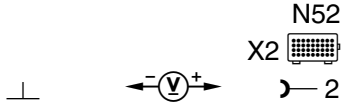
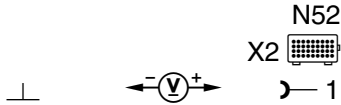
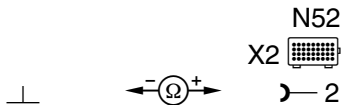
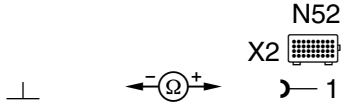
## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
19.1		S83 Resistance		Disconnect test cable from N52. S83 in rest position  Press S83 towards <b>raise</b>	>20 kΩ  0 – 5 Ω	Wiring, S83.
				S83 in rest position  Press S83 towards <b>lower</b>	>20 kΩ  0 – 5 Ω	
20.0		<b>Left front power window motor (M10/3)</b> Voltage supply control module		Ignition: <b>OFF</b>	11 – 14 V	Wiring.
21.0		<b>Right front power window motor (M10/4)</b> Voltage supply control module		Ignition: <b>OFF</b>	11 – 14 V	Wiring.

## Electrical Test Program – Test


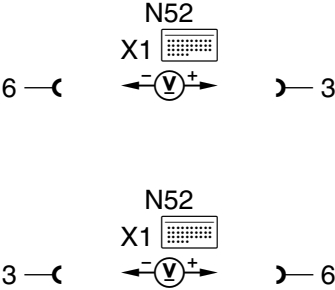
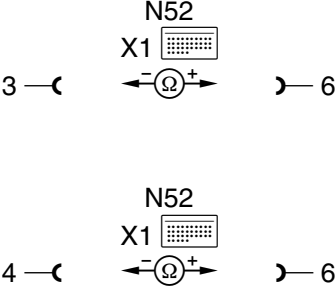
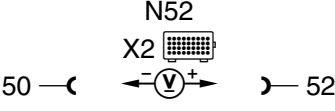
⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
22.0	4 064 065	<b>VSS</b>		Ignition: <b>ON</b> Rotate left front wheel (approx. 1 rev./sec.)	2.5 – 4.0 V	Wiring, N30, N30/1, N47/1 or N47/2, N52.
23.0	4 064 065	<b>VSS signal status</b>		Drive vehicle: < 5 mph  > 5 mph	3.125 Hz  25.00 Hz	Wiring, N30, N30/1, N47/1 or N47/2.
24.0	6 097	<b>Left front power window switch (S21/1)</b> Voltage supply	  	Ignition: <b>ON</b>	11 – 14 V  11 – 14 V	Wiring, ⇒ 24.1, N52.
24.1		S21/1 close, Lower limit stop control Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Push switch (S21/1) back to second detent and then forward.	>20 kΩ  0 – 1 Ω	Wiring, ⇒ 24.2, S21/1.

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
24.2		S21/1 open, Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Push switch (S21/1) back to first and second detent.	>20 kΩ  0 – 1 Ω	Wiring, S21/1.
25.0		<b>Right front power window switch (S21/2)</b> Voltage supply	 	Ignition: <b>ON</b>	11 – 14 V	Wiring, ⇒ 25.1, N52.
25.1		S21/2 close, Lower limit stop control Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Push switch (S21/2) back to second detent and then forward.	>20 kΩ  0 – 1 Ω	Wiring, ⇒ 25.2, S21/2.
25.2		S21/2 open, Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52. Push switch (S21/2) back to first and second detent.	>20 kΩ  0 – 1 Ω	Wiring, S21/2.



## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
26.0	6 097	<b>Left front power window motor (M10/3)</b> Voltage supply to motor		Ignition: <b>ON</b> Switch (S21/1) in: <b>rest position</b>  <b>open</b>  <b>close</b>	0 – 1 V  11 – 14 V  11 – 14 V	Wiring, ⇒ 26.1, N52.
26.1		M10/3 Resistance		Ignition: <b>OFF</b> Disconnect test cable from N52.	0.5 – 2.0 Ω    >20 kΩ	Wiring, ⇒ 26.2, M10/3 (SMS, Job No. 82-600).
26.2		M10/3 Switch circuit <sup>2)</sup>		Ignition: <b>ON</b>	11 – 14 V	Wiring, ⇒ 26.3, N52.

2) As of 12/94.

## Electrical Test Program – Test






⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
26.3		M10/3 Switch circuit session <sup>2)</sup>	<p>M10/3x2 2 — </p> <p>N52 X2 </p> <p>14</p> <p>M10/3x2 3 — </p> <p>N52 X2 </p> <p>15</p>	<p>Ignition: <b>OFF</b> Disconnect test cable from N52.</p> <p>Disconnect M10/3x2 from M10/3.</p>	<p>&lt; 1 Ω</p> <p>&lt; 1 Ω</p>	<p>Wiring, ⇒ 26.4.</p>
26.4		M10/3 Switch circuit <sup>2)</sup> Short to circuit 31	<p>N52 X2 </p> <p>14</p> <p>15</p>	<p>Ignition: <b>OFF</b> Disconnect test cable from N52. Disconnect M10/3x2 from M10/3.</p>	<p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p>	<p>Wiring, ⇒ 26.5.</p>
26.5		M10/3 Switch circuit <sup>2)</sup> Short	<p>N52 X2 </p> <p>15 — </p> <p>14</p> <p>50 — </p> <p>14</p> <p>52 — </p> <p>14</p> <p>50 — </p> <p>15</p> <p>52 — </p> <p>15</p>	<p>Ignition: <b>OFF</b> Disconnect test cable from N52. Disconnect M10/3x2 from M10/3.</p>	<p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p>	<p>Wiring.</p>

<sup>2)</sup> As of 12/94.

### 11.3 Roadster Soft Top (RST), Roll Bar (RB) (Manual Deployment)


Model 129 as of 1/94

#### Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
27.0		<b>Right front power window motor (M10/4)</b> Voltage supply to motor	<p>N52 X1 </p> <p>10 —( —( ←( ⊖ ⊕ → ) — 9</p> <p>9 —( —( ←( ⊖ ⊕ → ) — 10</p>	Ignition: <b>ON</b> Switch (S21/2) in: <b>rest position</b> <b>open</b> <b>close</b>	0 – 1 V  11 – 14 V  11 – 14 V	Wiring, ⇒ 27.1, N52.
27.1		M10/4 Resistance	<p>N52 X1 </p> <p>9 —( —( ←( ⊖ ⊕ → ) — 10</p> <p>4 —( —( ←( ⊖ ⊕ → ) — 10</p>	Ignition: <b>OFF</b> Disconnect test cable from N52.	0.5 – 2.0 Ω  >20 kΩ	Wiring, ⇒ 27.2, M10/4 (SMS, Job No. 82-600).
27.2		M10/4 Switch circuit <sup>2)</sup>	<p>N52 X2 </p> <p>51 —( —( ←( ⊖ ⊕ → ) — 53</p>	Ignition: <b>ON</b>	10 – 14 V	Wiring, ⇒ 27.3, N52.


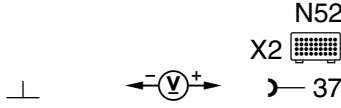
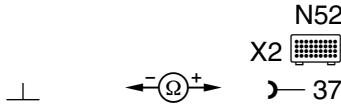
<sup>2)</sup> As of 12/94.

#### Electrical Test Program – Test


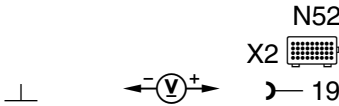
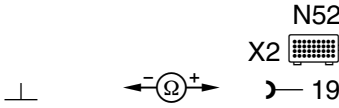
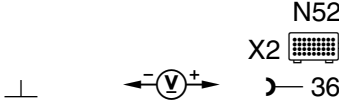
⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
27.3		M10/4 Switch circuit session <sup>2)</sup>	<p>M10/4x2 N52</p> <p>2 —⌘ <math>\leftarrow \ominus \rightarrow</math> X2 <math>\rightarrow</math> — 33</p> <p>M10/4x2 N52</p> <p>3 —⌘ <math>\leftarrow \ominus \rightarrow</math> X2 <math>\rightarrow</math> — 34</p>	<p>Ignition: <b>OFF</b></p> <p>Disconnect test cable from N52.</p> <p>Disconnect M10/4x2 from M10/4.</p>	<p>&lt; 1 Ω</p> <p>&lt; 1 Ω</p>	Wiring, ⇒ 27.4.
27.4		M10/4 Switch circuit <sup>2)</sup> Short to circuit 31	<p>N52</p> <p>X2 <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 33</p> <p><math>\perp</math> <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 34</p>	<p>Ignition: <b>OFF</b></p> <p>Disconnect test cable from N52.</p> <p>Disconnect M10/4x2 from M10/4.</p>	<p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p>	Wiring, ⇒ 27.5.
27.5		M10/4 Switch circuit <sup>2)</sup> Short	<p>N52</p> <p>X2 <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 33</p> <p>34 —⌘ <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 33</p> <p>51 —⌘ <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 33</p> <p>53 —⌘ <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 33</p> <p>51 —⌘ <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 34</p> <p>53 —⌘ <math>\leftarrow \ominus \rightarrow</math> <math>\rightarrow</math> — 34</p>	<p>Ignition: <b>OFF</b></p> <p>Disconnect test cable from N52.</p> <p>Disconnect M10/4x2 from M10/4.</p>	<p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p> <p>&gt;20 kΩ</p>	Wiring.

<sup>2)</sup> As of 12/94.


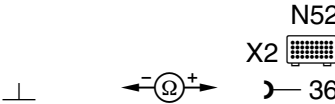
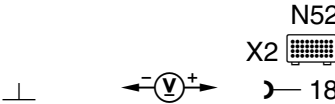
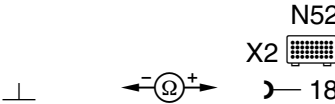
## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
28.0	11 176	<b>Power soft top switch indicator lamp (S84)</b>	–	Ignition: <b>ON</b>	Indicator lamp in S84 momentarily illuminates.	Wiring, S84, N52.
29.0		<b>Left power soft top valve block, soft top compartment cover “open”/soft top compartment cover lock “open” valve (Y55/1y4)</b> Voltage supply		Ignition: <b>OFF</b> Operate soft top compartment cover by pressing switch (S84): <b>unlock, open</b> <b>close, lock</b>	<b>unlock, open</b> 11 – 14 V <b>close, lock</b> 0 – 1 V	⇒ 29.1, Wiring, N52.
29.1		Y55/1y4 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y55/1y4.  <b>Nominal values are okay:</b> Check Y55/1y4 for mechanical binding.

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
30.0		<b>Right power soft top valve block, soft top “open”/front lock “open” valve (Y56/1y1)</b> Voltage supply		Ignition: <b>ON</b> Operate soft top by pressing switch (S84): <b>unlock front</b> <b>close, lock front</b>	11 – 14 V 0 – 1 V	⇒ 30.1, Wiring, N52.
30.1		Y56/1y1 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y56/1y1.  <b>Nominal values are okay:</b> Check Y56/1y1 for mechanical binding.
31.0		<b>Left power soft top valve block, soft top “closed” /fabric bow lock “closed” valve (Y55/1y1)</b> Voltage supply		Ignition: <b>ON</b> Operate soft top by pressing switch (S84): <b>close</b> <b>open</b>  Operate rear locks using switch (S84) to: <b>unlock</b> <b>lock</b>	11 – 14 V 0 – 1 V  11 – 14 V 0 – 1 V	⇒ 31.1, Wiring, N52.

## Electrical Test Program – Test


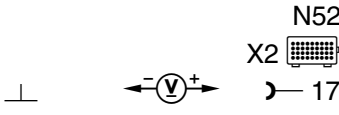
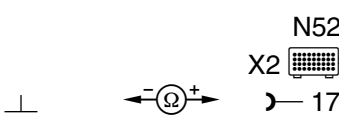



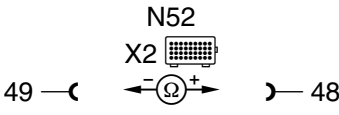
⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
31.1		Y55/1y1 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y55/1y1.  <b>Nominal values are okay:</b> Check Y55/1y1 for mechanical binding.
32.0		<b>Left power soft top valve block, fabric bow “open” /soft top compartment cover“closed” valve (Y55/1y3)</b> Voltage supply		Ignition: <b>ON</b> Operate fabric bow by pressing switch (S84):  <b>raise</b>  <b>lower</b>  Operate soft top compartment cover using switch (S84) to:  <b>close</b>  <b>open</b>	11 – 14 V  0 – 1 V  11 – 14 V  0 – 1 V	⇒ 32.1, Wiring, N52.
32.1		Y55/1y3 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y55/1y3.  <b>Nominal values are okay:</b> Check Y55/1y3 for mechanical binding.

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
33.0		<b>Left power soft top valve block, fabric bow “closed” valve (Y55/1y2)</b> Voltage supply		Ignition: <b>ON</b> Operate fabric bow by pressing switch (S84):  <b>lower</b>  <b>raise</b>	11 – 14 V  0 – 1 V	⇒ 33.1, Wiring, N52.
33.1		Y55/1y2 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y55/1y2.  <b>Nominal values are okay:</b> Check Y55/1y2 for mechanical binding.
34.0		<b>Right power soft top valve block, RB “lower” valve (Y56/1y2)</b> Voltage supply		Ignition: <b>ON</b> Operate soft top switch (S84) or RB switch (S83)	0 – 1 V 11 – 14 V	⇒ 34.1, Wiring, N52.
34.1		Y56/1y2 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y56/1y2.












## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
35.0		<b>Right power soft top valve block, RB “raise” valve (Y56/1y3)</b> Voltage supply		Ignition: <b>ON</b> Operate roll bar by pressing switch (S84) or switch (S83):  <b>raise</b>  <b>lower</b>	<b>raise</b> 11 – 14 V  <b>lower</b> 0 – 1 V	⇒ 35.1, Wiring, N52.
35.1		Y56/1y3 Resistance		Disconnect test cable from N52.	5 – 15 Ω	Wiring, Y56/1y3.  <b>Nominal values are okay:</b> Check Y56/1y3 for mechanical binding.
36.0	  	<b>RST/RB hydraulic unit, overload protection thermocouple (A7/5b1)</b> Pump temperature signal		Ignition: <b>OFF</b> Disconnect test cable from N52. Pump temperature: 25 °C  Pump temperature: 85 °C  Pump temperature: 120 °C	220 kΩ  25 kΩ  10 kΩ	A7/5.



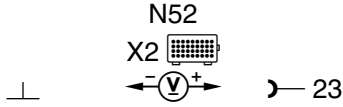
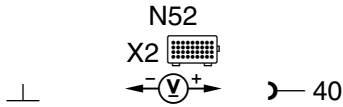

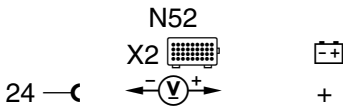
## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
37.0	124	<b>Left door actuator (S47), right door actuator (S48), trunk lid lock actuator (S49)</b>  Up to 9/95		Disconnect ATA control module (N26). Lock/unlock vehicle via central locking:  <b>locked</b>  <b>unlocked</b>	< 1V  11 – 14 V	S47, S48, S49, CL/vacuum supply pump (M14/1), Wiring.
37.1		Left door actuator (S47), right door actuator (S48), trunk lid lock actuator (S49)  As of 9/95		Disconnect ATA control module (N26). Lock/unlock vehicle via central locking:  <b>locked</b>  <b>unlocked</b>	< 1V  11 – 14 V	S47, S48, S49, CL/vacuum supply pump (M14/1), Wiring.
38.0	123	<b>Left door switch group (S86), right door ATA/CF microswitch (S87s1), trunk lid ATA/CF microswitch (S88s1)</b>  Up to end of Model Year 1995		Ignition: <b>OFF</b> Switches (S86, S87s1 and S88s1) in: <b>rest position</b>  S86: <b>locked</b>  S87s1: <b>locked</b>  S88s1: <b>locked</b>	11 – 14 V  0 – 1 V  0 – 1 V  0 – 1 V	⇒ 38.1, Wiring, M14/1, N52, N26, RCL control module (N54).

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
38.1		S86, S87s1, S88s1  Up to end of Model Year 1995	   X2 	Ignition: <b>OFF</b> Remove N52 from socket box. Disconnect connectors from M14/1, N26 and N54.  Switches (S86, S87s1 and S88s1) in: <b>rest position</b>  S86: <b>locked</b>  S87s1: <b>locked</b>  S88s1: <b>locked</b>	> 20 kΩ  < 10 Ω  < 10 Ω  < 10 Ω	Wiring, S86, S87s1, S88s1.
38.2		Lock switch signal from RCL control module (N54)  As of start of Model Year 1996	 +  X2 	Ignition: <b>OFF</b> Operate central locking system with infrared remote control or master key  Lock and hold  Unlock and hold	11 – 14 V  11 – 14 V	Wiring, RCL control module (N54), Pneumatic supply pump (M14/1), N52, ATA control module (N26)

## Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
39.0		<b>Warning buzzer (E15h1) in dome lamp (E15)</b>		Drive vehicle with soft top or hard top closed, fabric bow unlocked.	Warning buzzer sounds	Wiring, E15h1, N52.
40.0		<b>Left front door, rotary tumbler microswitch (S86s2)</b> only with short-stroke power window control		Ignition: <b>ON</b> Left door open close	0 – 1 V 11 – 14 V	Wiring, S86s2, N52.
41.0		<b>Right front door switch group, rotary tumbler microswitch (S87s2)</b> only with short-stroke power window control		Ignition: <b>ON</b> Right door open close	0 – 1 V 11 – 14 V	Wiring, S87s2, N52.
42.0		<b>RB switch (S83)</b> Warning lamp Voltage supply		Ignition: <b>ON</b>	11 – 14 V Measurable for approx. 1 second	Wiring, N52.

Electrical Test Program – Test

Electrical connector locations

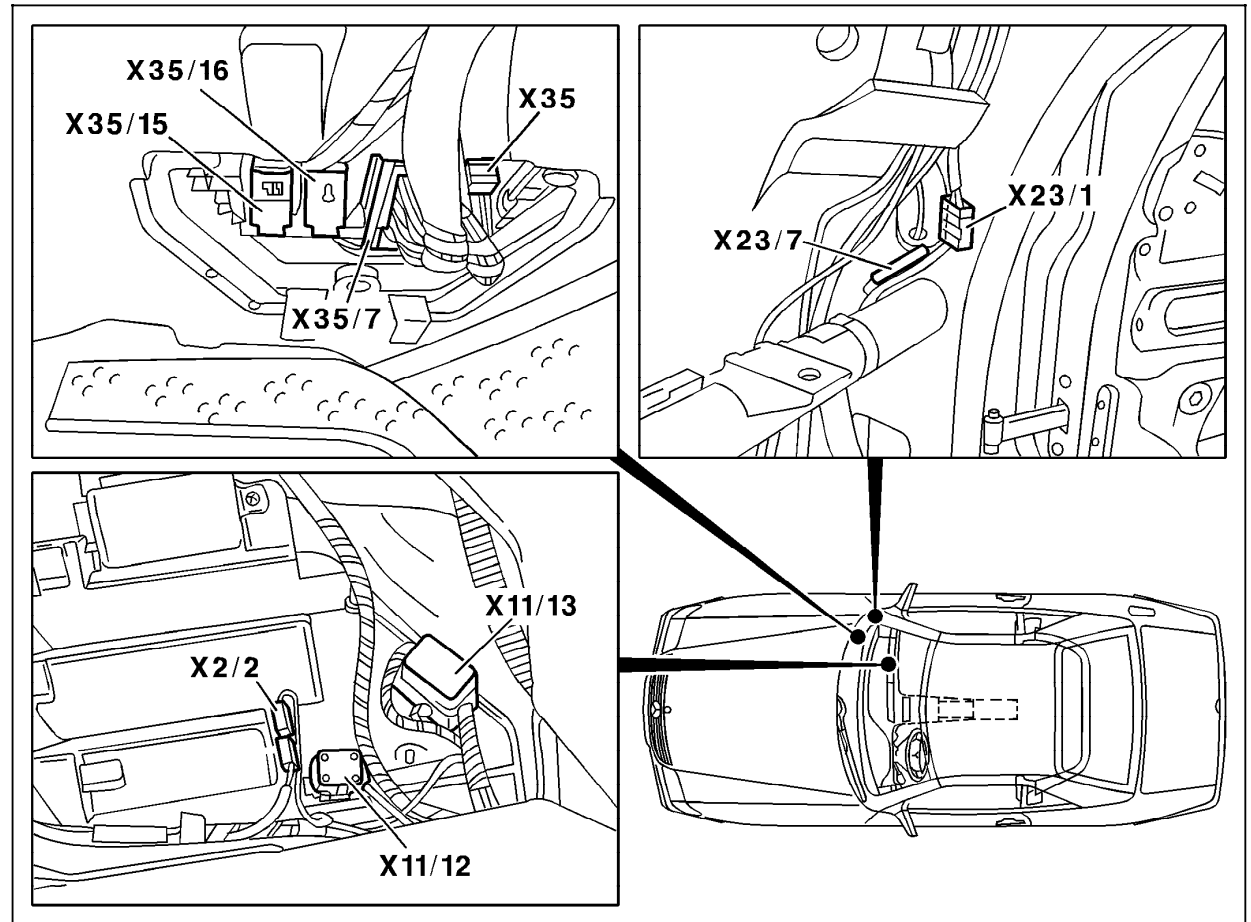


Figure 1

- X2/2 VSS connector (radio) (2-pole)
- X11/12 Power soft top test connector (4-pole)
- X23/1 Soft top/front locks connector (3-pole)
- X23/7 Soft top connector (reed contact switch)
- X35 Cockpit/module box separation point (12-pole)
- X35/7 Cockpit/module box separation point (18-pole)
- X35/15 Module box/taillamp harness separation point
- X35/16 Module box/taillamp harness separationpoint (6-pole)

P77.39-0206-06