

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	↻	RB control module (N53)		Erase DTC ↻. Read other DTC's in memory	DTC ↻ erased	RB control module (N53)
2.0	↻	RB control module (N53) Voltage supply, circuit 15		Ignition: ON	11 – 14 V	Wiring, Ignition switch (S2/1)
3.0	⊞	RB deployment solenoid (Y57/1) Voltage supply		Ignition: OFF Disconnect RB solenoid valve connector (X23).	11 – 14 V	Wiring, ⇒ 3.1
3.1	⊞	RB deployment solenoid (Y57/1) with wiring Resistance		Disconnect auxiliary fuse holder (F24).	0.5 – 1.5Ω	RB deployment solenoid (Y57/1), Wiring, ⇒ 3.2
3.2	⊞	RB deployment solenoid (Y57/1) with wiring Insulation resistance		Disconnect connector from RB control module (N53). Disconnect auxiliary fuse holder (F24).	> 20 kΩ	Wiring, ⇒ 3.3
3.3	⊞	Insulation resistance Circuit 30		Disconnect RB solenoid valve connector (X23)	> 20 kΩ	Wiring.

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4.0	7	Rear axle switch (S83/2 or S83/3) Resistance	<p>N53 15 — Ω — 16</p>	Switch S83/2 and S83/3 in position: Function S83/2 in: Arretiert S83/3 in: Arretiert	$< 2\Omega$ $> 20\text{ k}\Omega$ $> 20\text{ k}\Omega$	Wiring Rear axle switch (S83/2 or S83/3), ⇒ 4.1
4.1	7	Insulation resistance Circuit 31	<p>N53 9 — Ω — 15</p>	Disconnect connector from RB control module (N53). Switch S83/2 and S83/3 in position: Function	$> 20\text{ k}\Omega$	Wiring, ⇒ 4.2
4.2	7	Insulation resistance Circuit 30	<p>N53 15 — Ω — 11</p>	Disconnect connector from RB control module (N53). Switch S83/2 and S83/3 in position: Function	$> 20\text{ k}\Omega$	Wiring.
5.0		RB malfunction indicator lamp (E30)	<p>N53 2 — Ω — 7</p>	Bridge sockets 2 & 7. Ignition: ON Disconnect connector from RB control module (N53). Disconnect bridge.	Indicator lamp comes on. Indicaator lamp goes out.	RB malfunction indicator lamp (E30), Wiring, ⇒ 5.1
5.1		Diagnostic cable Insulation resistance	<p>N53 2 — Ω — 7</p>	Disconnect indicator laamp (E30).	$> 20\text{ k}\Omega$	Wiring.

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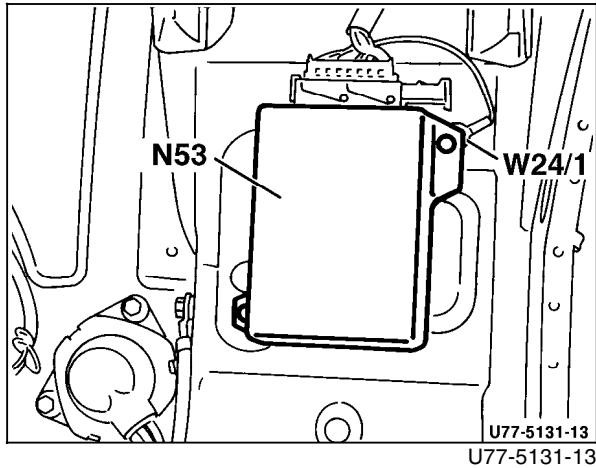


Figure 1
N53 RB control module
W24/1 Ground

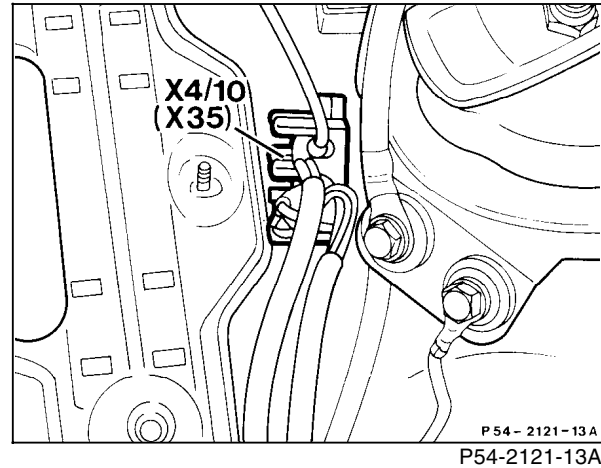


Figure 2
X4/10 Terminal block

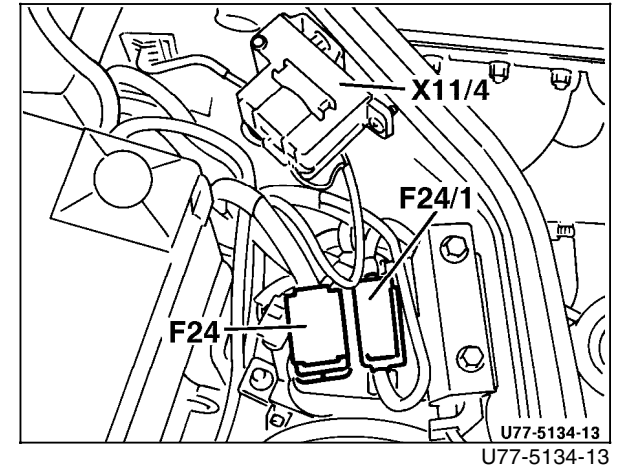


Figure 3
X11/4 Data link connector (DTC readout)
F24 Auxiliary fuse holder (CST/RB)

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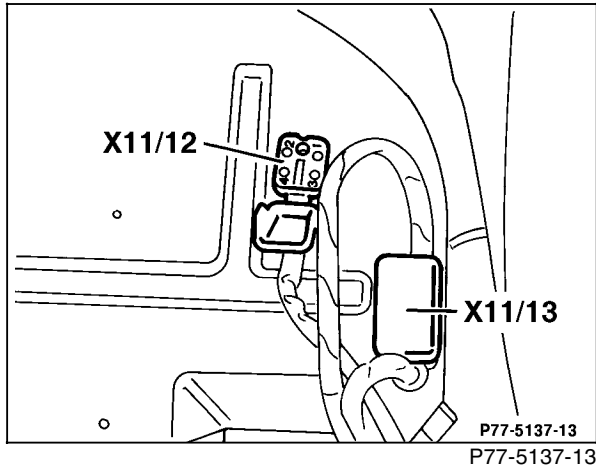


Figure 4
X11/12 Power soft top test connector (4-pole)

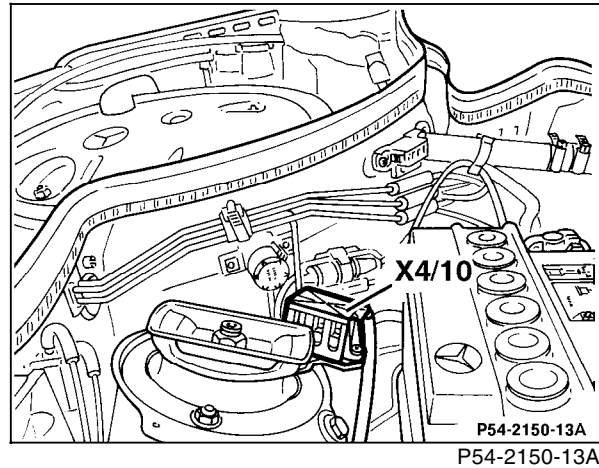


Figure 5
X4/10 Terminal block

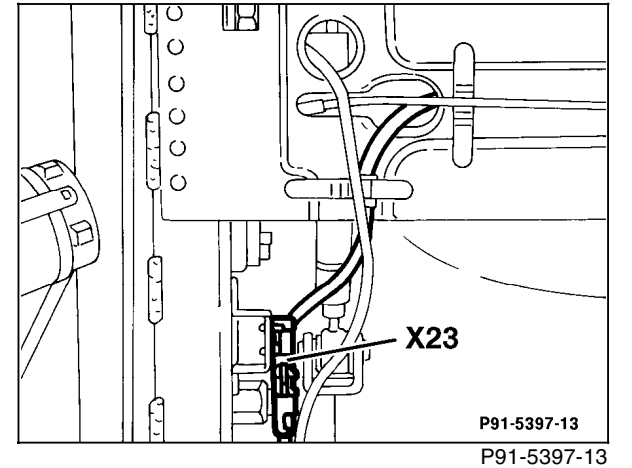
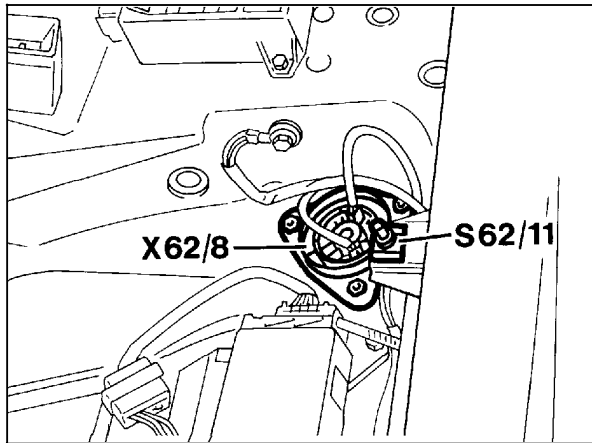


Figure 6
X23 RB solenoid valve connector (2-pole)

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P91-5399-13

Figure

Model

X62/8 Rear axle multiple circuit junction connector