
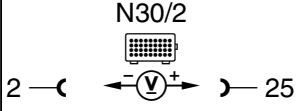
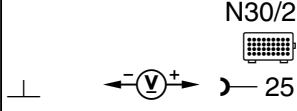
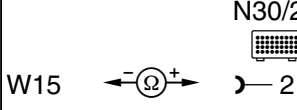
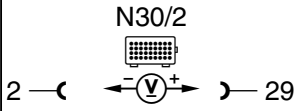
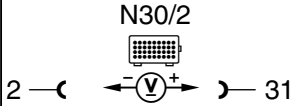
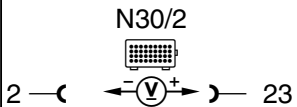
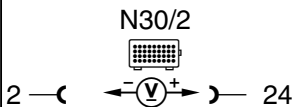











### Electrical Test Program - Test

Test step <b>DTC</b>	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	 <b>ASD control module (N30/2)</b> Voltage supply Circuit 87		Ignition: <b>ON</b>	11 – 14 V	⇒ 1.1
⇒ 1.1	Voltage supply from base module (N16/1)		Ignition: <b>ON</b>	11 – 14 V	Fuse (F1) on base module (N16/1), Wiring, ⇒ 1.2, DM, Body & Accessories, Vol. 1, section 1.4 23.
⇒ 1.2	Ground wire		Ignition: <b>OFF</b>	< 1 Ω	Wiring, Ground (W15).
⇒ 2.0	<b>Circuit 61 voltage</b>		Ignition: <b>ON</b>  Engine: <b>at Idle</b>	< 2 V  11 – 14 V	Wiring, Generator (G2).

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 3.0	Diagnosis output	 <p>N30/2 2 —( ←(V)→ )— 31</p>	Ignition: <b>ON</b>	10 – 14 V	Wiring, Data link connector (X11/4).
⇒ 4.0	ASD warning lamp (A1e25)	 <p>N30/2 2 —( ←(V)→ )— 23</p>	Ignition: <b>ON</b>  Engine: <b>at Idle</b>	< 1 V A1e25: <b>ON</b>  11 – 14 V A1e25: <b>OFF</b>	Wiring, DM, Body & Accessories, Vol. 1, 1.4 23.  Wiring, N30/2.
⇒ 5.0	ASD MIL (A1e24)	 <p>N30/2 2 —( ←(V)→ )— 24</p>	Ignition: <b>ON</b>  Engine: <b>at Idle</b>	< 1 V A1e24: <b>ON</b>  11 – 14 V A1e24: <b>OFF</b>	Wiring, A1e24.  Wiring, N30/2.

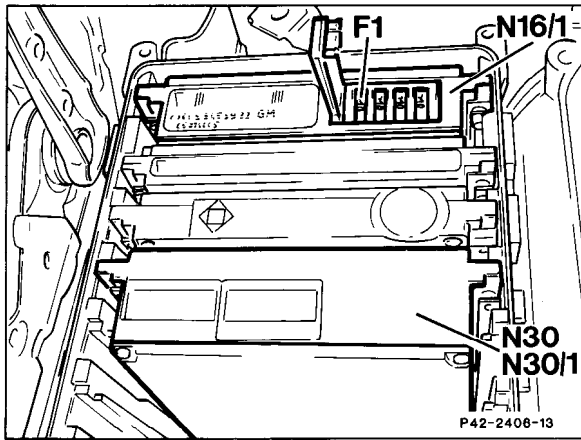
Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 6.0	 <b>Stop lamp switch (S9/1)</b>  N.O. contact	N30/2  2 — ( ← — (V) — ) — 10	Ignition: <b>OFF</b> Brake pedal not depressed. Depress brake pedal.	< 1 V 11 – 14 V	Wiring, S9/1.
⇒ 7.0	 <b>Stop lamp switch (S9/1)</b>  N.C. contact	N30/2  27 — ( ← — (V) — ) — 25	Ignition: <b>ON</b> Brake pedal not depressed. Depress brake pedal.	< 1 V 11 – 14 V	Wiring, S9/1, ⇒ 8.0, N30/2
⇒ 8.0	 <b>ASD valve (Y38)</b> Function	N30/2  2 — ( ← — ) — 27	Ignition: <b>ON</b> Depress brake pedal.	ASD valve switches on. ASD valve switches off.	⇒ 8.1, Wiring.
⇒ 8.1	Coil resistance	N30/2  27 Ω ← — (Ω) — ) — 25	Ignition: <b>OFF</b> Disconnect N30/2. Brake pedal not depressed.	5 – 7 Ω	Wiring, Y38.

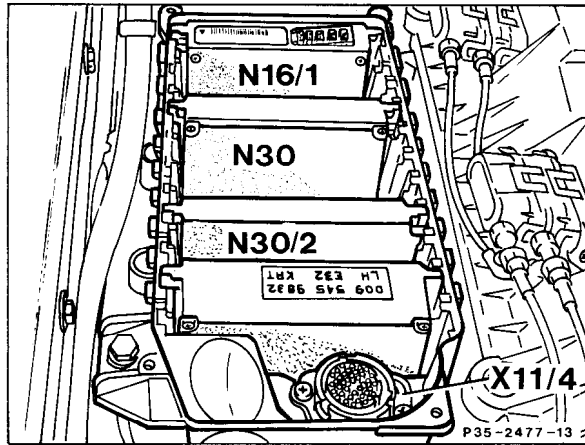
Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 9.0 5 7	<b>Right front VSS</b>		Raise front of vehicle. Ignition: <b>ON</b> Rotate right front wheel (approx. 1 rev./sec.).	> 3 V~	Wiring, DM, Chassis & Drivetrain, Vol. 2, section 6.2 23
⇒ 10.0 4 7	<b>Left front VSS</b>		Raise front of vehicle. Ignition: <b>ON</b> Rotate left front wheel (approx. 1 rev./sec.).	> 3 V~	Wiring, DM, Chassis & Drivetrain, Vol. 2, section 6.2 23
⇒ 11.0 6 7	<b>Rear axle VSS</b>		Raise front of vehicle. Ignition: <b>ON</b> Rotate either rear wheel (approx. 1 rev./sec.).	> 3 V~	Wiring, DM, Chassis & Drivetrain, Vol. 2, section 6.2 23

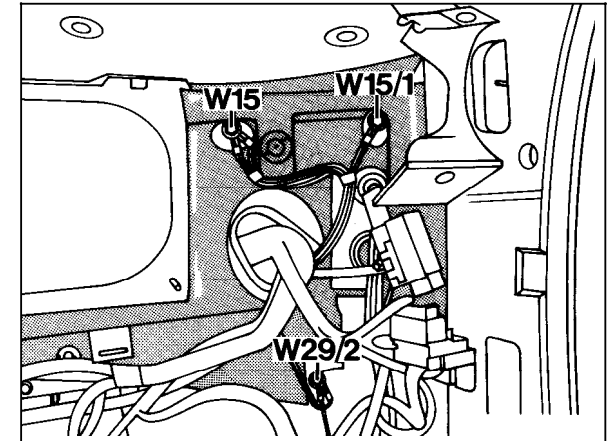
Electrical Test Program - Test



P42-2406-13



P35-2477-13



P54-2796-13

Figure 1

- F1 Fuse and relay box
- N16/1 Base module (BM)
- N30 ABS control module
- N30/1 ABS/ASR control module

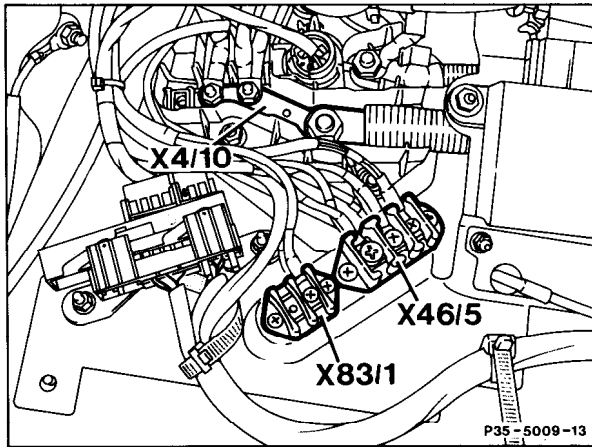
Figure 2

- N16/1 Base module (BM)
- N30 ABS control module
- N30/2 ASD control module
- X11/4 Data link connector (DTC readout)

Figure 3

- W15 Ground (electronics output ground - right footwell)

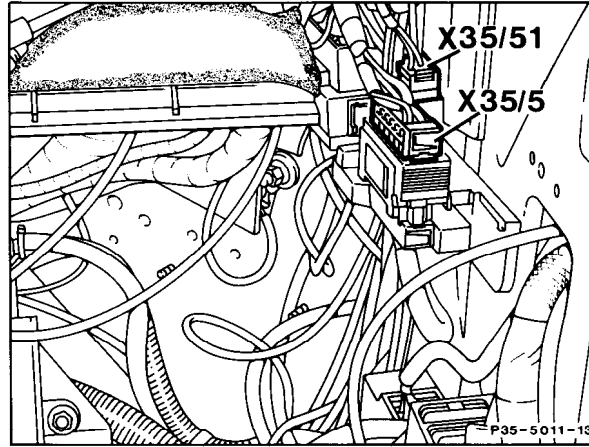
### Electrical Test Program - Test



P35-5009-13

Figure 4

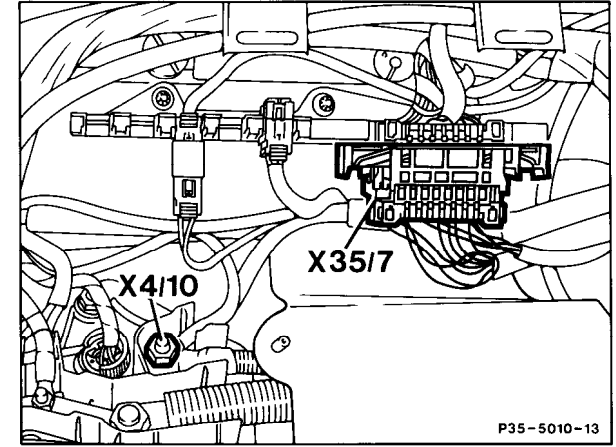
X4/10	Terminal block (circuit 30/circuit 61 battery) (3-pole)
X46/5	Terminal block (VSS/ABS MIL) (3-pole)
X83/1	Instrument cluster connector (ASD function indicator lamp) (2-pole)



P35-5011-13

Figure 5

X35/5	Module box/taillamp harness separation point (ASD) (12-pole)
X35/51	Module box/taillamp harness separation point (ASD) (4-pole)

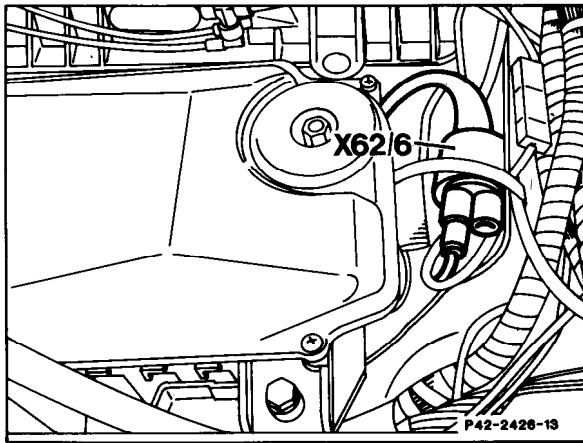


P35-5010-13

Figure 6

X4/10	Terminal block (circuit 30/circuit 61 battery) (3-pole)
X35/7	Cockpit/module box separation point (18 pole)

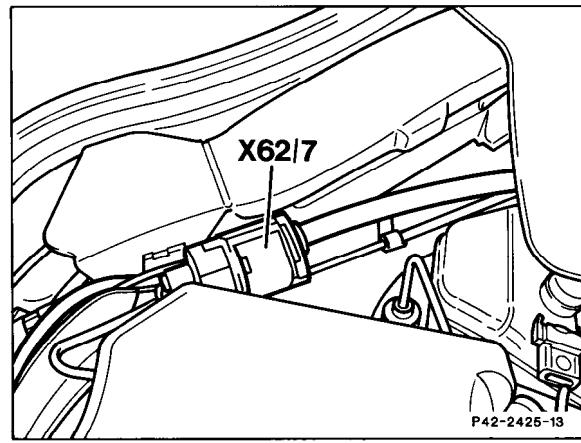
Electrical Test Program - Test



P42-2426-13

Figure 7

X62/6 Right front axle VSS sensor connector (component compartment)

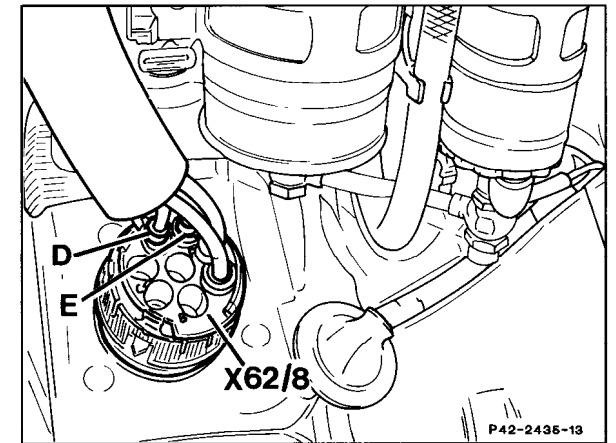


P42-2425-13

P42-2425-13

Figure 8

X62/7 Left front axle VSS sensor connector (component compartment)



P42-2435-13

P42-2435-13

Figure 9

X62/8 Rear axle multiple circuit junction connector  
E Rear axle VSS (L6) harness connector

Electrical Test Program - Test

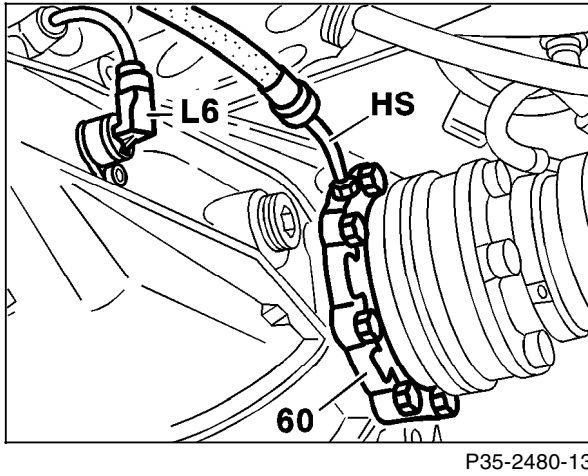


Figure 10

L6 Rear axle VSS sensor

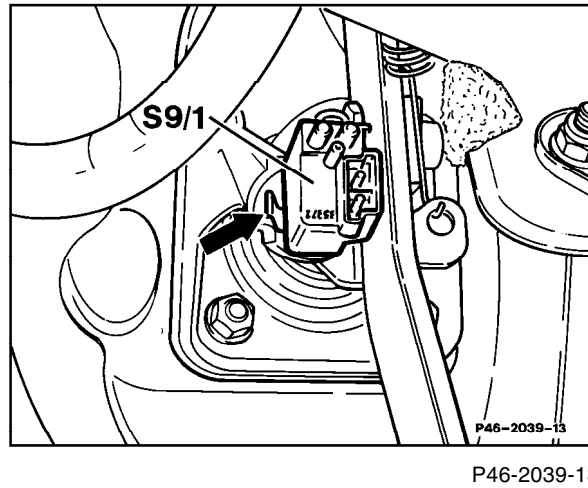


Figure 11

Pedal cluster  
S9/1 Stop lamp switch (4-pole)

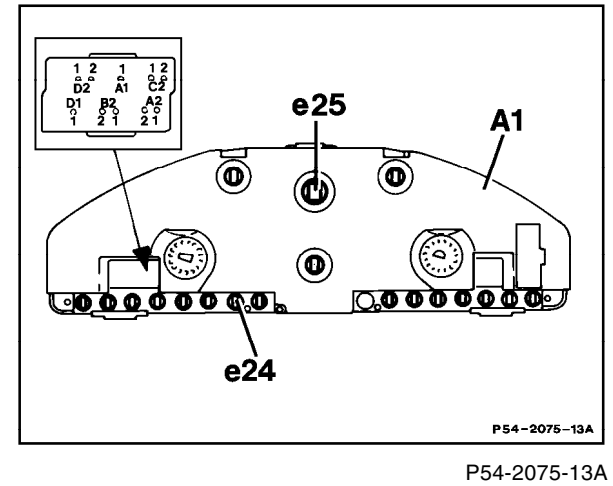
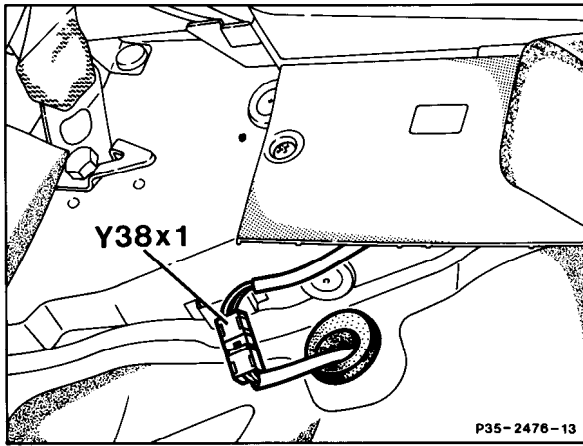


Figure 12

A1 Instrument cluster  
A1e24 ASD MIL  
A1e25 ASD warning lamp



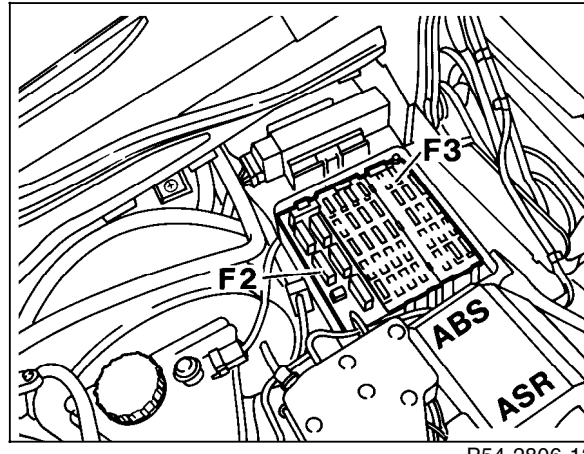
Electrical Test Program - Test



P35-2476-13

Figure 13

Y38x1 ASD solenoid valve connector



P54-2806-13

Figure 14

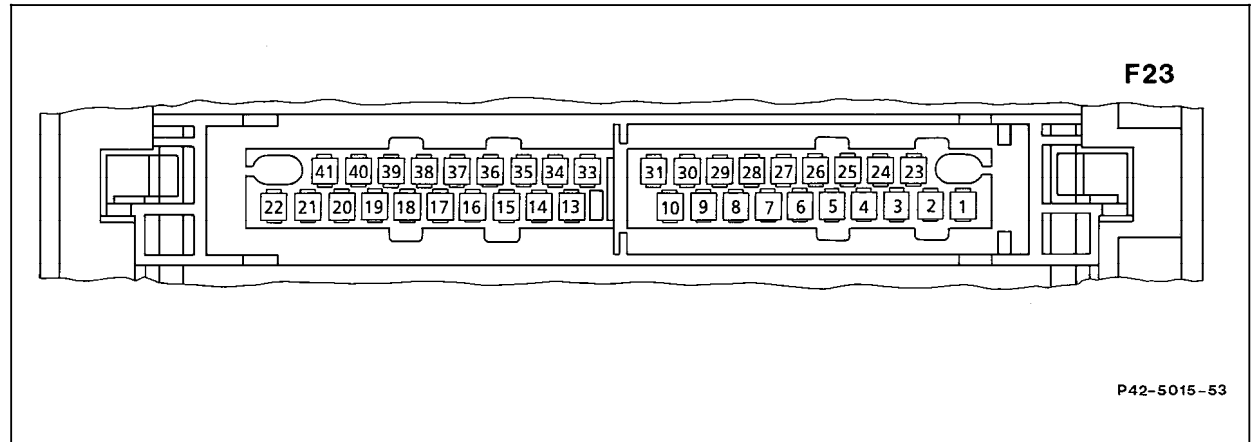
F3 Fuse box (35-fuse, cockpit /taillamp harness)

### Electrical Test Program - Test

#### ASD control module (N30/2) connector layout

Figure 15

F23	Module box
1	Not used
2	<b>Model 129:</b> Ground (W27) <b>Model 140:</b> Ground (W15)
3-9	Not used
10	Stop lamp switch (S9/1) N.O. contact
11-22	Not used
23	ASD warning lamp (A1e25)
24	ASD MIL (A1e24)
25	Voltage supply circuit 87
26	Right front axle VSS sensor (L6/2)
27	ASD valve (Y38) (-)
28	Left front axle VSS sensor (L6/1)
29	Voltage circuit 61e
30	Rear axle VSS sensor (L6)
31	Diagnosis (output)
33-41	Not used



P42-5015-53

P42-5015-53