Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	ASD control module (N30/2) Voltage supply Circuit 87 E	N30/2 	Ignition: ON	11 – 14 V	⇒ 1.1
	Voltage supply from overvoltage protection relay module (K1/2)	N30/2 	Ignition: ON	11 – 14 V	Fuse in K1/2, Wiring, K1/2, ⇒ 1.2
⇒ 1.2	Ground wire	N30/2 ₩10 7 ₩16 - ② ⁺ > 8 9		< 1 Ω	Wiring, Model 124, 201 Ground (W10), Model 129 Ground (W16).

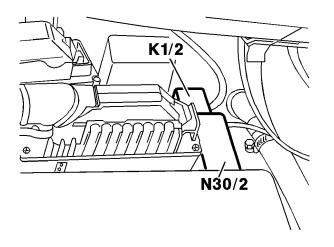
Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 2.0	Circuit 61 voltage	N30/2 (Ignition: ON Engine: at Idle	< 2 V 11 – 14 V	Wiring, Generator (G2).
⇒ 3.0	Diagnosis output	N30/2 X11/4	Engine: OFF	< 1 Ω	Wiring, Data link connector (X11/4).
⇒ 4.0	ASD warning lamp (A1e25)	N30/2 	Ignition: ON	A1e25: ON	Wiring, Fuse, A1e25, Bulb.
⇒ 5.0	ASD MIL (A1e24)	N30/2 	Bridge sockets 8 and 2.	A1e24: ON A1e24: OFF	Wiring, Fuse, A1e24. Wiring.

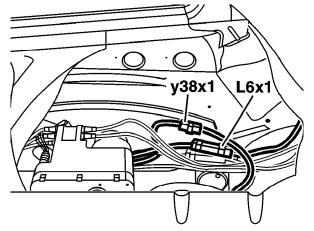
Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 6.0 ∃	Stop lamp switch (S9/1) N.O. contact	N30/2 (Ignition: OFF Brake pedal not depressed. Depress brake pedal.	< 1 V 11 – 14 V	Fuse in F1, Wiring, S9/1.
⇒ 7.0 B	Stop lamp switch (S9/1) N.C. contact	N30/2 (→ () → 10	Ignition: ON Brake pedal not depressed. Depress brake pedal.	11 – 14 V < 1 V	Wiring, S9/1, ⇒ 8.0
⇒ 8.0 🖪	ASD valve (Y38) Function	N30/2 (' '	ASD valve switches on. ASD valve switches off.	⇒ 8.1, Wiring.
⇒ 8.1	Coil resistance	Y38x1 Y38x1 1 — (Ignition: OFF Brake pedal not depressed.	5 – 7 Ω	Wiring, Y38.

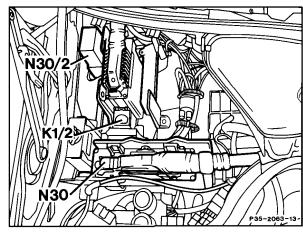
Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 9.0 Ч	Left front VSS	<u> </u>	Raise front of vehicle. Ignition: ON Rotate left front wheel (approx. 1 rev./sec.).	> 3 V~	Wiring, ⇒ 9.1.
⇒ 9.1	ABS control module (N30) left front VSS output	N30 N30 20 — 17	Raise front of vehicle. Ignition: ON Rotate left front wheel (approx. 1 rev./sec.).	> 3 V~	⇒ 9.2.
⇒ 9.2	Left front VSS sensor (L6/1)		Raise front of vehicle. Ignition: ON Rotate left front wheel (approx. 1 rev./sec.).	> 0.1 V~	Wiring, ⇒ 9.3.
⇒ 9.3	Internal resistance	_	Ignition: OFF Disconnect ABS control module (N30).	> 20 kΩ	Wiring, ⇒ 9.4.
⇒ 9.4	Internal resistance		Ignition: OFF Disconnect ABS control module (N30).	0.8 – 2.3 kΩ	Wiring, L6/1.

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 10.0 5	Right front VSS		Raise front of vehicle. Ignition: ON Rotate right front wheel (approx. 1 rev./sec.).	> 3 V~	Wiring, ⇒ 10.1.
⇒ 10.1	ABS control module (N30) right front VSS output	N30 N30 20 — 11	Raise front of vehicle. Ignition: ON Rotate right front wheel (approx. 1 rev./sec.).	> 3 V~	⇒ 10.2.
⇒ 10.2	Right front VSS sensor (L6/2)	N30 N30 23 — — — — 21	Raise front of vehicle. Ignition: ON Rotate right front wheel (approx. 1 rev./sec.).	> 0.1 V~	⇒ 10.3.
⇒ 10.3	Internal resistance	N30 N30 20 — — — — 23	Ignition: OFF Disconnect ABS control module (N30).	> 20 kΩ	Wiring, ⇒ 10.4.
⇒ 10.4	Internal resistance	N30 N30 23 — (→ •)— 21	Ignition: OFF Disconnect ABS control module (N30).	0.8 – 2.3 kΩ	Wiring, L6/2.

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 11.0 5	Rear axle VSS		Raise front of vehicle. Ignition: ON Rotate either rear wheel (approx. 1 rev./sec.).	> 3 V~	Wiring, ⇒ 11.1.
⇒ 11.1	ABS control module (N30) rear axle VSS output	N30 N30 20 (- 30	Raise front of vehicle. Ignition: ON Rotate either rear wheel (approx. 1 rev./sec.).	> 3 V~	⇒ 11.2.
⇒ 11.2	Rear axle VSS sensor (L6)	N30 N30 7 — (- () +) — 9	Raise front of vehicle. Ignition: ON Rotate either rear wheel (approx. 1 rev./sec.).	> 0.1 V~	⇒ 11.3.
⇒ 11.3	Internal resistance	_ .	Ignition: OFF Disconnect ABS control module (N30).	> 20 kΩ	Wiring, ⇒ 11.4.
⇒ 11.4	Internal resistance	_	Ignition: OFF Disconnect ABS control module (N30).	0.6 – 1.6 kΩ	Wiring, L6.







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F 33-223

Model 124 Right component compartment

K1/2 Overvoltage protection relay module

(87E/87L/30a, 9-pole) N30/2 ASD control module

Figure 1

Figure 2

Model 124 Right rear passenger compartment

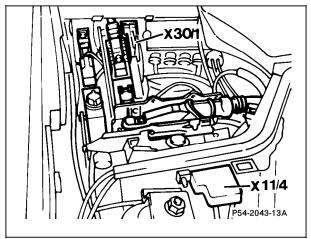
L6x1 Rear axle VSS sensor connector Y38x1 ASD solenoid valve connector Figure 3 Model 129

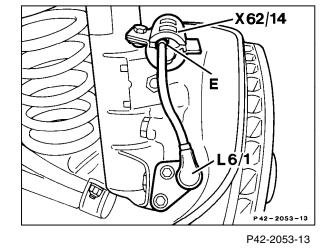
P35-5772-13

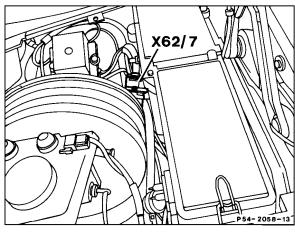
K1/2 Overvoltage protection relay module

(87E/87L/30a, 9-pole)

N30 ABS control module N30/2 ASD control module







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P54-2043-13A

Figure 4 Model 129

X30/1 Multi-function connector block
X11/4 Data link connector (DTC readout)

Figure 5 Model 129

L6/1 Left front axle VSS sensor L6/2 Right front axle VSS sensor

X62/14 Left front axle VSS sensor connector (axle

spindle)

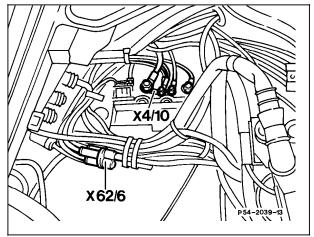
X62/15 Right front axle VSS sensor connector (axle

spindle)

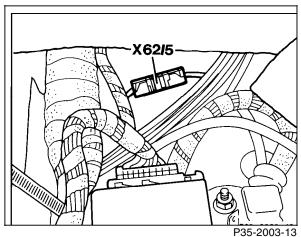
Figure 6 Model 129

X62/7 Left front axle VSS sensor connector (component

compartment)







1 2 1 12 D2 A1 C2 D1 B2 A2 1 2 1 21 e25 **A1** e24 P54-2075-13A

P54-2075-13A

Figure 7 Model 129

X4/10 Terminal block (circuit 30/circuit 61 battery)

X62/6 Right front axle VSS sensor connector

(component compartment)

Figure 8 Model 129

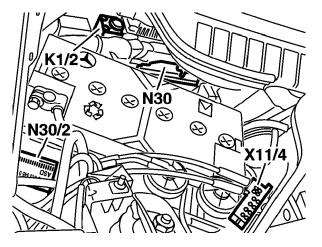
X62/5 Valve connector (ASD) (2-pole) Figure 9 Model 129

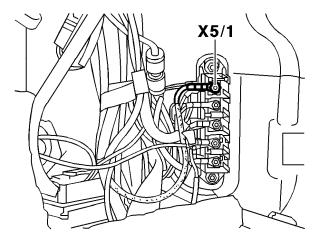
Α1 Instrument cluster

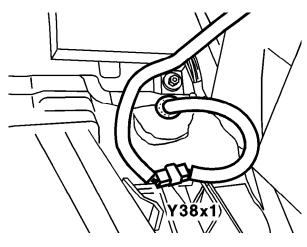
ASD MIL A1e24

A1e25 ASD warning lamp

4.1 ASD







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P35-5808-13

P35-5802-13

Figure 10

Model 201 Right component compartment

K1/2 Overvoltage protection relay module

(87E/87L/30a, 9-pole)

N30 ABS control module N30/2 ASD control module

X11/4 Data link connector (DTC readout)

Figure 11

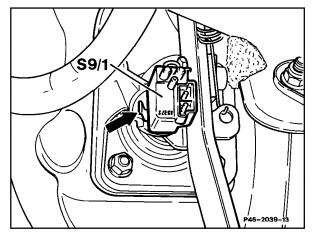
Model 201 Left footwell

X5/1 Terminal block (interior)

Figure 12

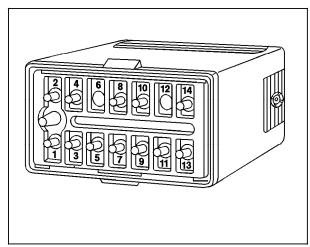
Model 201 Right footwell

Y38x1 ASD solenoid valve connector



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P35-5879-13

Figure 13 Pedal assembly, all models Stop lamp switch (4-pole) S9/1

Figure 14 Rear axle center piece, all models L6 Rear axle VSS sensor Rear axle VSS sensor mounting screw L6a

Figure 15

Figure 15)
ASD con	trol module (N30/2) pin layout
1	Rear axle VSS sensor (L6) from N30
2	ASD warning lamp (A1e24) and Data link
	connector (X11/4)
3	Right front axle VSS sensor (L6/2) from N30
4	ASD MIL (A1e25)
5	Left front axle VSS sensor (L6/1) from N30
6	Not used
7 – 9	Ground
	Model 124: W10
	Model 129: W16
	Model 201: W10
10	ASD valve (Y38) (-) and Stop lamp switch
	(S9/1) N.C. contact
11	Stop lamp switch (S9/1) N.O. contact

12 Not used

4.1 ASD

13 Circuit 61 voltage Circuit 87 voltage