1.2

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	Base module (N16/1) Voltage supply Circuit 30	N16/1 28 — — — — — 1 29 — — — — — 1	_		Wiring, Battery (G1), Model 129 Ground (module box bracket) (W27) Model 140 Ground (electronics output ground – right footwell) (W15)
⇒ 2.0	Base module (N16/1) Voltage supply Circuit 15, unfused	N16/1 □□□□□ 28 — (→ Û →) — 15	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	Wiring, Ignition/starter switch (S2/1)
⇒ 3.0	Base module (N16/1) Voltage supply Circuit 15, fused	N16/1 □□□□□ 28 — (→□(¥) →) — 11	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	Wiring

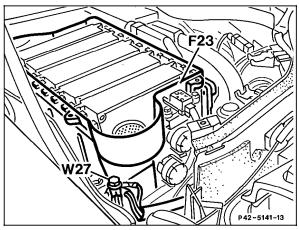
Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 4.0	Voltage supply (unfused) for N4/1	N16/1 □□□□□ 28 — (→ Û →) — 6	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	⇒ 2.0, Base module (N16/1).
⇒ 5.0	Voltage supply (unfused) for N3/4, N4/1, B2/5	N16/1 □□□□ 28 — (— (¥) →) — 5	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	⇒ 2.0, Base module (N16/1).
⇒ 6.0 12	Voltage supply (fused) for N30 or N30/1, S9/1	N16/1 □□□□□ 28 — (→ (Ŷ) + →) — 8	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	Fuse (F1) in base module (N16/1), ⇒ 2.0, Base module (N16/1).
⇒ 7.0 12	Voltage supply (fused) for X11/4	N16/1 □□□□□ 28 — (→ Û →) — 9	Ignition: ON Ignition: OFF		Fuse (F1) in base module (N16/1), ⇒ 2.0, Base module (N16/1).

Test step	DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 8.0		Voltage supply (fused) for N3/4	N16/1 (→=(Y) [±] →)— 10	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	⇒ 2.0, ⇒ 3.0, Base module (N16/1).
⇒ 9.0		Voltage supply (fused) for N49/1, N51, N15/1, S16/9, S45/1		Ignition: ON Ignition: OFF		Fuse (F3) in base module (N16/1), ⇒ 2.0, Base module (N16/1).
⇒ 10.0		Idle speed increase signal for N3/4, N4/1		Engine: at Idle	10 – 14 V < 1 V	\Rightarrow 11.0, \Rightarrow 12.0, \Rightarrow 2.0, Base module (N16/1).

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 11.0	A/C compressor RPM sensor signal (A9I1)	N16/1 ↓────────────────────────────────────	Engine: at Idle 15	Model 129 > 0.30 V Model 140 > 0.04 V	⇒ 11.1
⇒ 11.1	Resistance	N16/1 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Ignition: OFF Disconnect base module (N16/1) from contact box.	Model 129 530 – 900 Ω Model 140 165 – 205 Ω	Wiring, A9/1.
⇒ 12.0	A/C "ON" signal from A/C pushbutton control module (N22)	N16/1 () → () → () → () → () → () → () → () →	Ignition: ON	11 – 14 V < 2 V	Wiring, See DM, Climate Control, Vol. 1, section 3.1 or 3.2 23
⇒ 13.0 E	A/C compressor electromagnetic clutch (A9k1) Voltage supply Circuit 15	N16/1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	Engine: at idle	11 – 14 V < 2 V	⇒ 11.0, ⇒ 2.0, Base module (N16/1).
⇒ 14.0	RPM signal TN (input) from engine control module (N3/4)	N16/1 □□□□□ 28 — (→ ① →) — 31	Engine: at Idle		Wiring, N3/4, Base module (N16/1).

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 15.0 S Model 129 only	Module box blower motor (M2/2) 1) Voltage supply	N16/1 	Engine: start RPM > 1500 rpm	11 – 14 V only for approx. 1.5 seconds after reaching 1500 rpm	Wiring, ⇒14.0, ⇒2.0, Base module (N16/1).
⇒ 16.0 l	Kickdown switch (S16/6) Voltage supply	N16/1 □□□□□ 28 — (→ () +) — 36	Engine: at Idle Engine: OFF	11 – 14 V < 1 V	⇒ 14.0, ⇒ 2.0, Wiring, Base module N16/1).
⇒ 17.0	Diagnostic output	N16/1 □□□□□ 28 — (→ Û →) — 33	Ignition: ON	10 – 14 V	Wiring, Base module (N16/1).
⇒ 18.0	Vehicle speed signal (VSS) from ABS control module (N30) or ABS/ASR control module (N30/1)	N16/1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	Ignition: ON Raise vehicle Turn right front wheel at 1 rev./second	>3 V	Wiring, ABS DM, Chassis & Drivetrain, Vol. 2, section 6.1 or 6.2 23, ASR DM, Chassis & Drivetrain, Vol. 2, section 5.1 or 5.2 23.

¹⁾ As of M.Y. 1994, M2/2 is no longer installed on model 140.



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Figure 1 Model 129

W27 Ground (module box bracket)

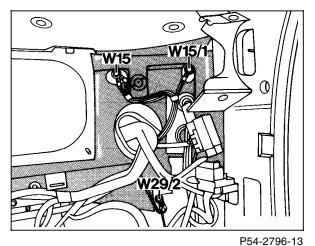
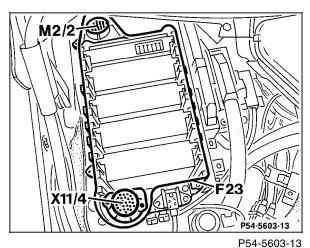


Figure 2

Model 140

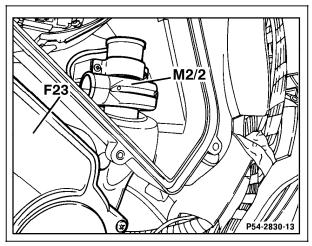
W15 Ground (electronics output ground - right footwell)



Model 129

Figure 3

M2/2 Module box blower motor



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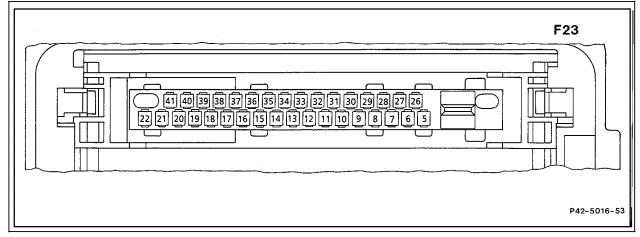
Figure 4
Model 140
Models have blow

M2/2 Module box blower motor

Base Module connector layout

Figure 5

rigule 5	
F23	Module box
1	Voltage supply circuit 30 (wide socket)
2-4	Not used
5	Engine control module (N3/4), EA control module (N4/1)
6	EA control module (N4/1)
7	Not used
8	ABS control module (N30) or ABS/ASR control module (N30/1), ASD/ASR stop lamp switch (S9/1)
9	Voltage supply for data link connector (X11/4)
10	Engine control module (N3/4)
11	Voltage supply circuit 15
12-13	Not used
14	Processed right front VSS from ABS (N30) or ABS/ASR (N30/1) control module
15	Voltage supply circuit 15
16-18	Not used
19	Module box blower motor (M2/2)
20	Electromagnetic clutch (A9k1)
21-26	Not used
27	ADS (N51), SPS (N49/1), Transmission, (N15/1) control modules, TR "D" contact switch (S16/9), Comfort/sport switch (S45/1)
28	Ground (W15 or W27)
29	Ground (W15 or W27)
30	Not used



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31	Engine speed signal TN (input) from Engine
	control module (N3/4)
32	Idle speed increase signal for EA control
	module (N4/1)
33	Diagnosis (output)
34-38	Not used
39	A/C "ON" signal
40	A/C compressor speed sensor (A9I1) (-)
41	A/C compressor speed sensor (A9I1) (+)