

Electrical Test Program - Preparation for Test

Preliminary work: Diagnosis – Diagnostic Trouble Code (DTC) Memory 11

1. Ignition: **OFF**
2. Remove diagnostic module (OBD II, N59/1). On Model 140 as of Model Year 1996 remove rear seat cushion and loosen bracket for diagnostic module.
3. Connect socket box with test cable according to connection diagram.

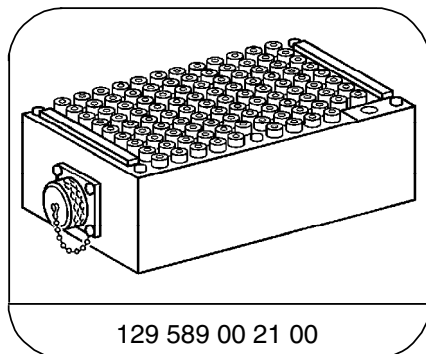
Electrical wiring diagrams :

Electrical Troubleshooting Manual, Model 129.

Electrical Troubleshooting Manual, Model 140.

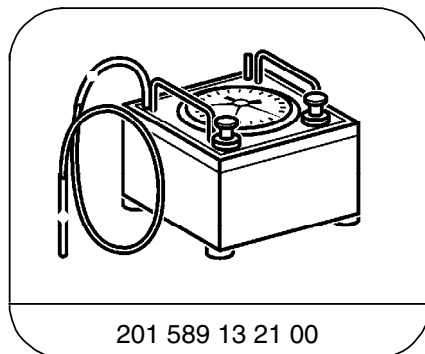
Electrical Troubleshooting Manual, Model 210.

Special Tools



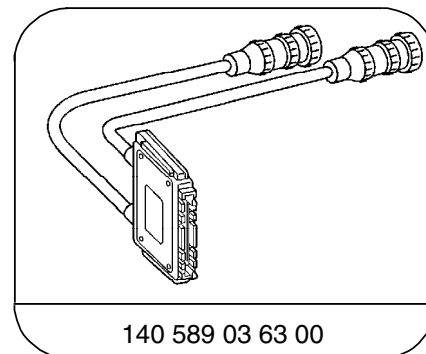
129 589 00 21 00

126-pin socket box



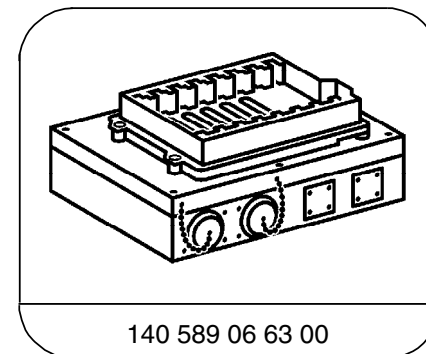
201 589 13 21 00

Tester



140 589 03 63 00

Contacting module 3

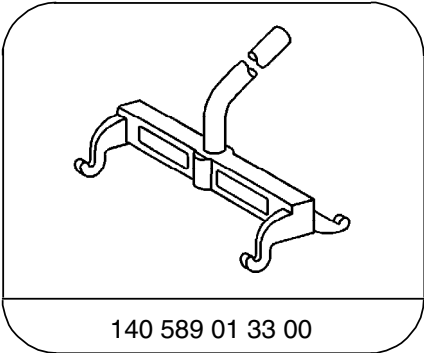


140 589 06 63 00

Contacting box

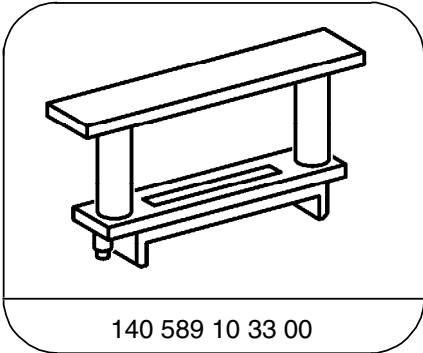
Electrical Test Program - Preparation for Test

Special Tools



140 589 01 33 00

Mounting lever



140 589 10 33 00

Spacer

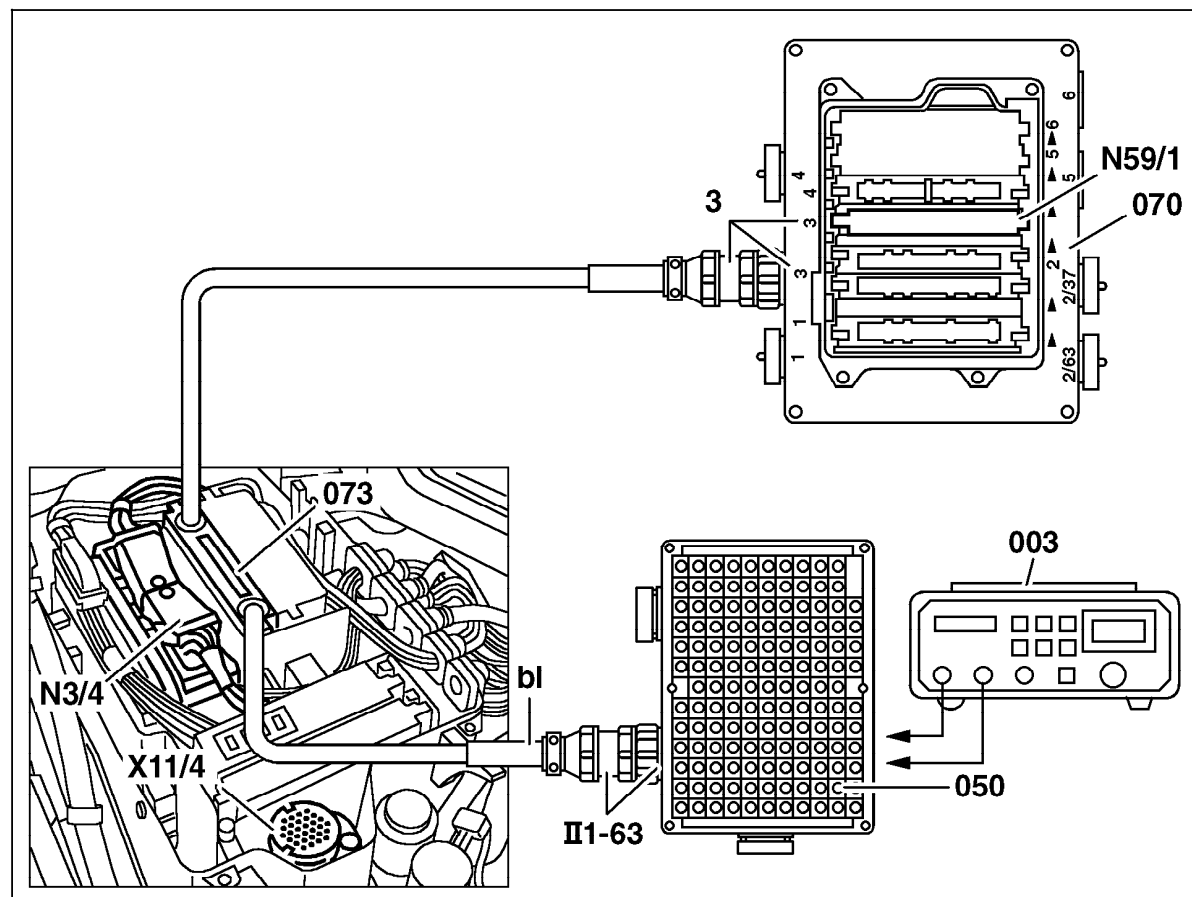
Conventional tools, test equipment

Description	Brand, model, etc.
Multimeter ¹⁾	Fluke models 23, 83, 85, 87
Test and adjustment diagnostic equipment (oscilloscope) ¹⁾	BEAR DACE

¹⁾ Available through the MBUSA Standard Equipment Program.

Electrical Test Program – Component Locations

Connection Diagram – Socket Box
Model 129 as of Model Year 1996



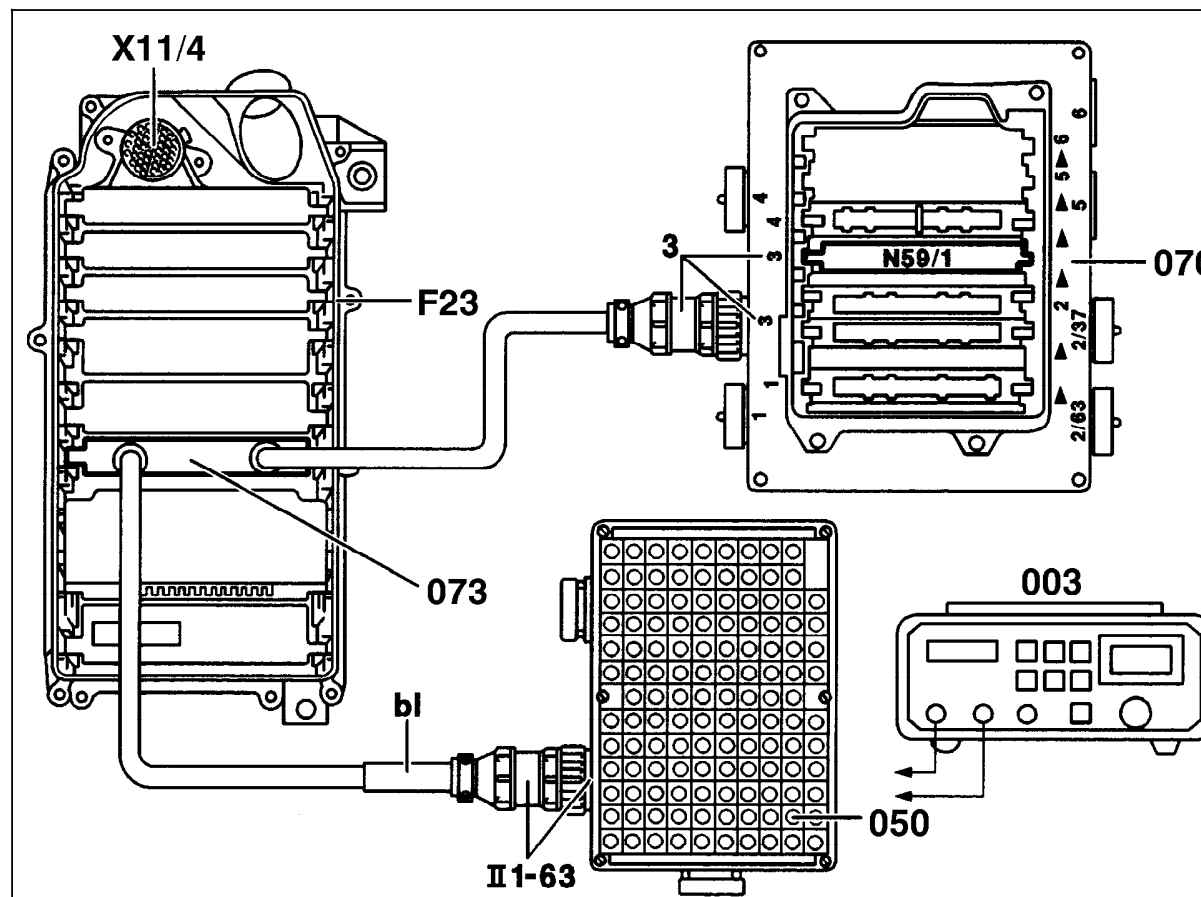
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Figure 1

- 003 Digital multimeter
- 050 Socket box, 126-pole
- 070 Contact box
- 073 Contact module 3
- N3/4 Engine control module (HFM-SFI)
- N59/1 Diagnostic module (OBD II)
- X11/4 Data link connector (DTC readout)
- bl blue

Electrical Test Program – Component Locations

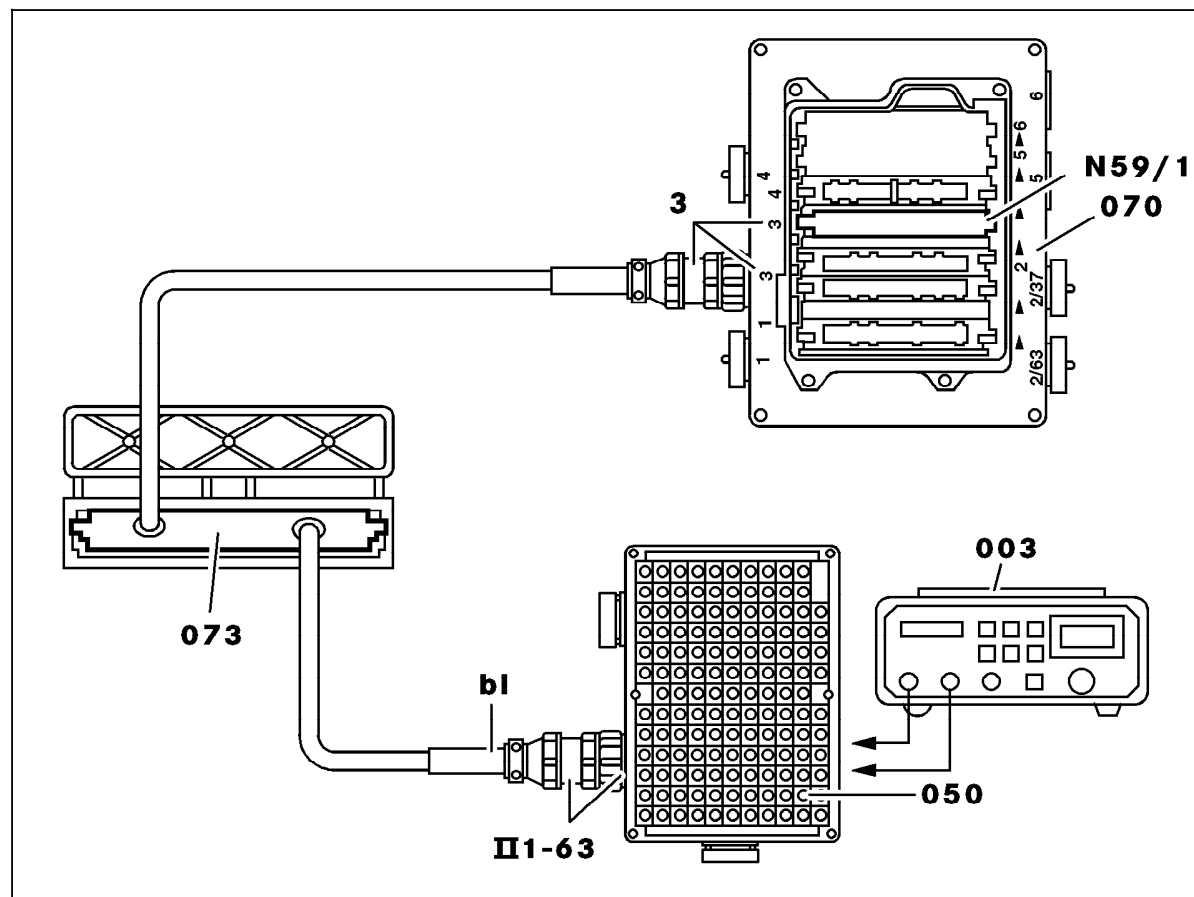
Connection Diagram – Socket Box
Model 140 to end of Model Year 1995



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Electrical Test Program – Component Locations

Connection Diagram – Socket Box
Model 140 as of Model Year 1996



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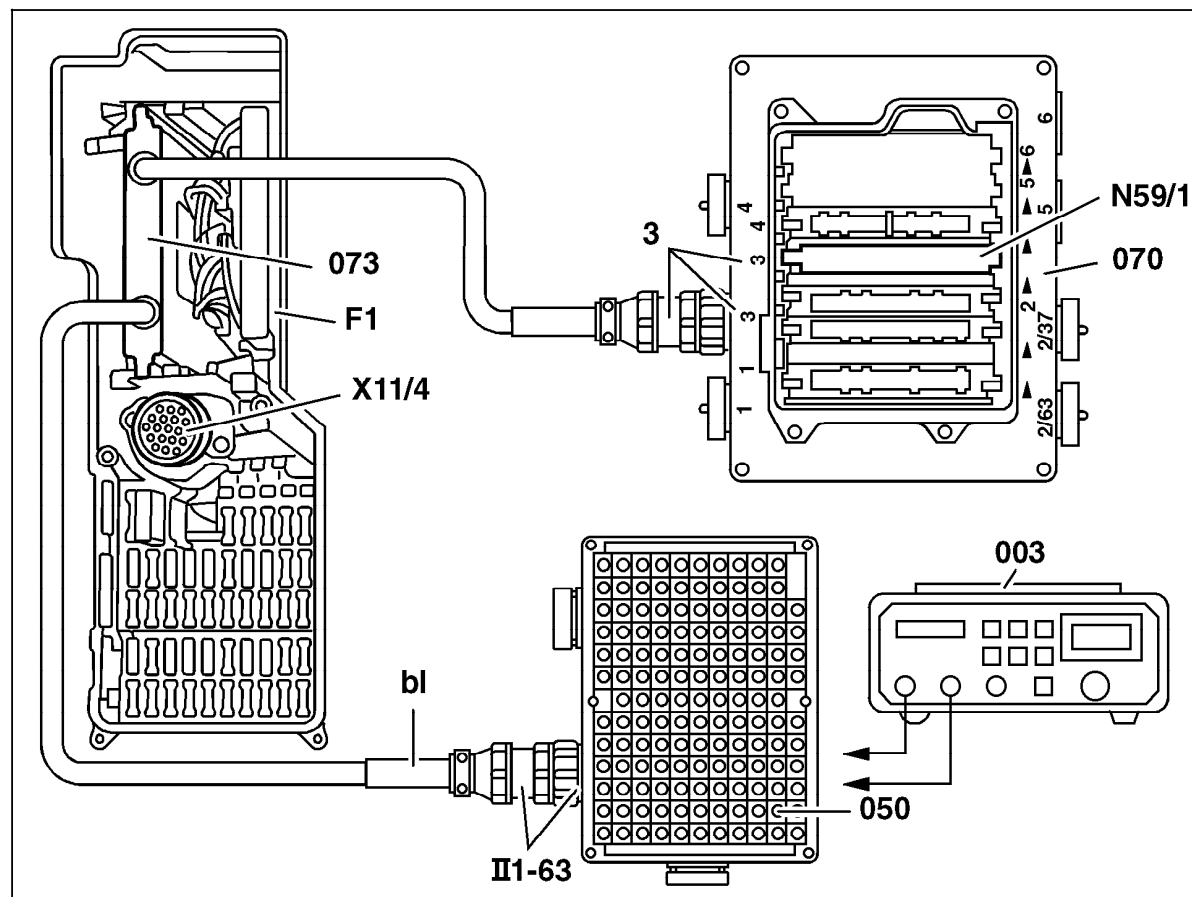
Figure 3

- 003 Digital multimeter
- 050 Socket box (126-pole)
- 070 Contact module
- 073 Contact module 3
- N59/1 Diagnostic module (OBD II)

bl blue

Electrical Test Program – Component Locations

Connection Diagram – Socket Box
Model 210



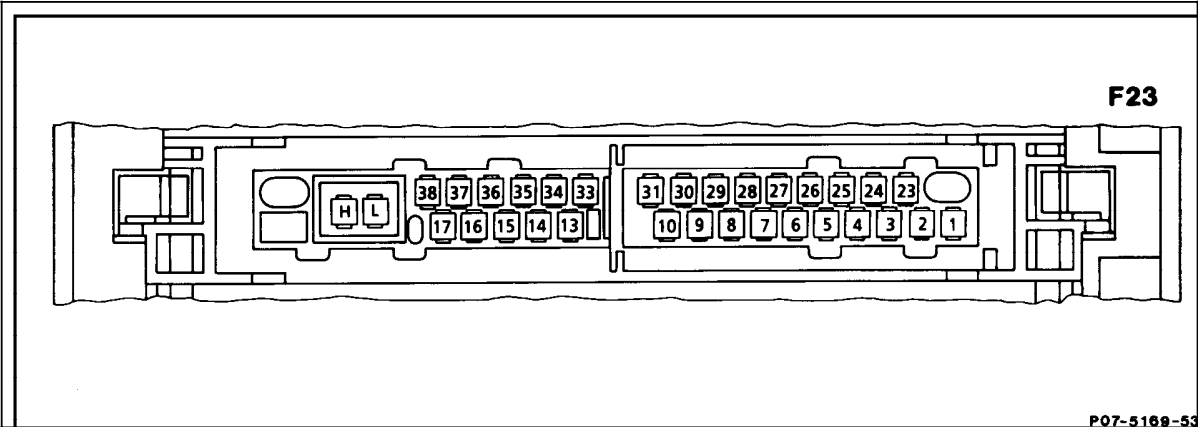
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Figure 4

003	Digital multimeter
050	Socket box (126-pole)
070	Contact module
073	Contact module 3
F1	Fuse and relay box
N59/1	Diagnostic module (OBD II)
X11/4	Data link connector (DTC readout)
bl	blue

Electrical Test Program – Test

Terminal Layout of Diagnostic Module
Model 129 as of Model Year 1996
Model 140 and 210



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P07-5169-53

Figure 5

F23	Modulbox	24	–	H	CAN data line (+)
1	–	25	Ground, module box bracket (W27), Model 129		(control modules HFM-SFI, EA/CC/ISC, CC/ISC,
2	Sensor ground		Electronic ground , right footwell (W15), Model 140		ETC, RCL)
3	CMP sensor		to end of Model Year 1995	L	CAN data line (–)
4	–		Ground, right rear seat (W17), Model 140 as of		(control modules HFM-SFI, EA/CC/ISC, CC/ISC,
5	Voltage supply, circuit 30		Model Year 1996		ETC, RCL)
6	O2S 2 (after TWC) signal (G3/1)		Ground, left wheelhousing (W16/3), Model 210		
7	O2S 1 (before TWC) signal (G3/2)	26	Voltage supply, circuit 87		
8	Engine speed signal (TNA)	27	Diagnostic wire to data link connector X11/4		
9	Ground coding at W27 (Model 129)		(38-pole)		
10	Purge flow switchover valve (Y27/6)	28	“CHECK ENGINE” MIL		
11–15	–	29	Ground coding from pin 25 (Model 210)		
16	DM pressure sensor (B5/2)	30	–		
17	DM pressure sensor (B5/2)	31	Ground from engine control module (N3/4)		
18–22	–				
23	Diagnostic wire to generic scan tool				
	connector (X11/22)				