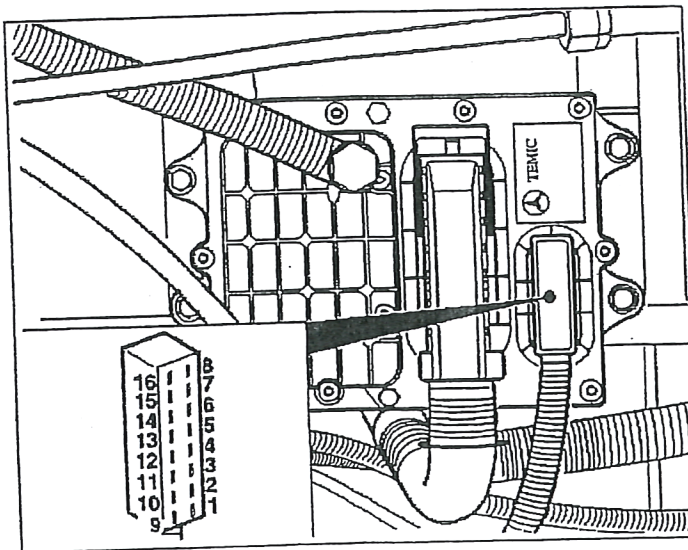


Control module connector X1 (16-pin), vehicle

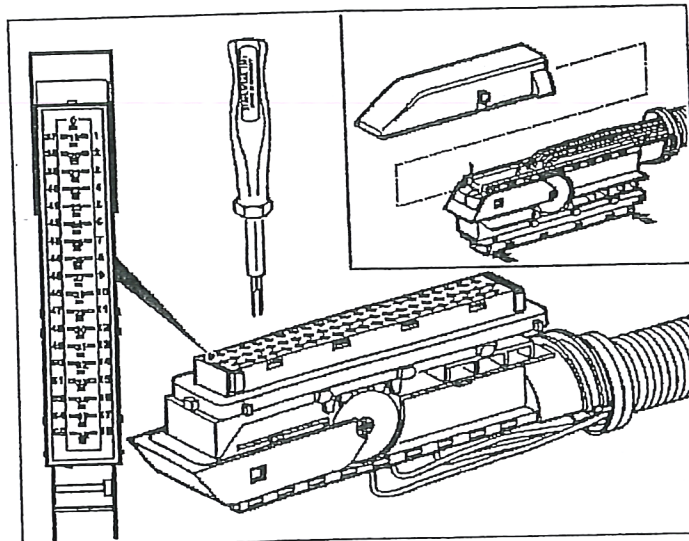
1	CAN-LOW	yellow
2	CAN-HIGH	blue
3	CAN-GND (ground)	brown/grey
4	CAN-GND (ground)	brown/red
5	Terminal 30	red
6	Terminal 30	red
7	Not assigned	-
8	Terminal 50	black
9	Terminal 31	brown
10	Not assigned	-
11	Terminal 31	brown
12	Terminal 50 from FMR	black/grey
13	Diagnostic socket (X13)	purple/yellow
14	Not assigned	-
15	Terminal 15	black/blue purple
16	Not assigned	-



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Connector N3 (55-pin)

0	Not assigned	-
1	TDC sensor cylinder 1 (B16)	black/yellow
2	Crankshaft angle position sensor (B15), (+)	black
3	Coolant temperature sensor (B65), (-)	white/yellow
4	Fuel temperature sensor (B10), (-)	brown/green
	AGND (analog ground) for oil pressure sensor (B12)	brown/grey
6	Not assigned	-
7	+ 5 V voltage supply for charge air pressure sensor (B13)	-
	green	-
8	Not assigned	-
9	Cylinder bank 2, right	red/blue
10	Not assigned	-
11	Not assigned	-
12	Not assigned	-
13	+ 5 V voltage supply of optional test stand travel sensor	-
	grey/white	-
14	Not assigned	-
15	Oil level sensor (B14), (-)	brown/white
16	Cylinder bank 1, left (-)	Red/green



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Shown on models 950, 952, 953, 954.

17	Not assigned	-	35	Engine stop pushbutton switch (S11), (+)	red/white
18	Terminal 50 to starter (M1)	black/grey	36	Fuel temperature sensor (B10), (+)	brown/blue
19	Crankshaft position sensor (B15), (-)	brown	37	Not assigned	-
20	TDC sensor cylinder 1 (B16), (-)	brown/yellow	38	Unit pump cylinder 6 (Y11), (+)	white/blue
	Charge air temperature sensor (B9), (-)	green/yellow	39	Oil level sensor (B14), (+)	grey/brown
	AGND (analog ground) for optional test stand		40	Not assigned	-
		travel	41	Not assigned	-
		sensor	42	Not assigned	-
		grey/violet	43	Not assigned	-
23	AGND (analog ground) for charge air pressure		44	Unit pump cylinder 5 (Y10), (+)	grey/blue
		sensor	45	Unit pump cylinder 4 (Y9), (+)	grey/yellow
		(B13) blue	46	Not assigned	
24	Not assigned	-	47	Unit pump cylinder 3 (Y8), (+)	white/red
25	Engine start pushbutton switch (S10), (+)	red/black	48	Charge air temperature sensor (B9), (+)	brown/black
26	Oil pressure sensor (B12), (+)	white/black	49	AGND (analog ground) for oil level	
27	Not assigned	-			sensor
28	Signal of optional test stand travel sensor	-	50	Proportional valve 2 (+)	(B14) yellow
29	Charge air pressure sensor (B13), (signal)	violet	51	Not assigned	green/white
30	Engine start/engine stop pushbutton		52	Proportional valve feedback	-
		switch (-)	53	Unit pump cylinder 2 (Y7), (+)	brown/red
		blue/white	54	Unit pump cylinder 1 (Y6), (+)	grey/white
31	Not assigned	-			grey/black
32	Not assigned	-			
33	Oil level sensor (B14), (+)	white			
34	Coolant temperature sensor (B65), (+)	red/yellow			

**Wiring diagrams**

Wiring diagrams are assigned to the familiar function groups. The alphabetical listing of all the function subgroups is contained in the "Search aid through all wiring diagram groups" (index A). The designation, the component abbreviated designation and the wiring diagram number are listed in the "Search aid through all electrical components" (index A) to facilitate finding individual components.

The wiring diagrams are filed in the respective function group, arranged according to the PE number, e.g.: PE07.15-W-2002AA  
PE54.30-W-2200C

The wiring diagrams are prepared as system wiring diagrams and structured as follows:

The representation of a system, e.g. drive control FR/FMR, contains all the electrical components, as well as cables to components, which are additionally linked to the FR, e.g. instrument (P2).

The abbreviated designations, e.g. ABS, listed in the legends, can be found in index A under "Abbreviations for wiring diagrams".

The numbers in parentheses are general explanatory notes.

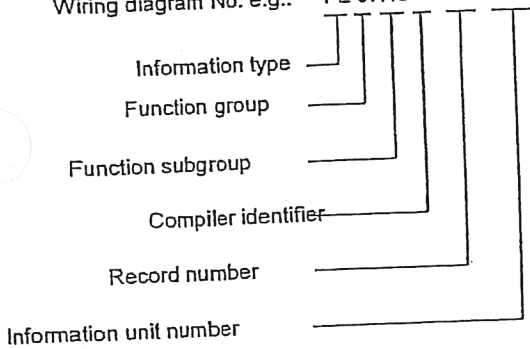
Cable cross-sections and cable colors may differ from the representation in the wiring diagrams.

The cable weld connectors are located in the wiring loom and are not visible.

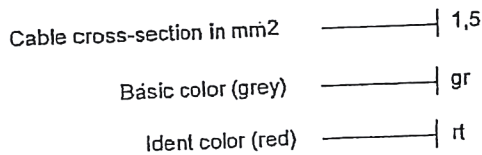
Relays, switches and control units, which are only referred to in the wiring diagrams, can be found using the "Search aid". They are shown in full and connected in the wiring diagram stated.

**Explanations:**

Wiring diagram No. e.g.: PE 07.15-W-2002-99AA



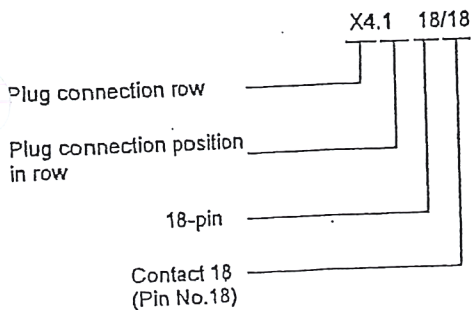
Cable designation e.g.: 1.5 gr/rt



**Color coding:**

- bl = blue
- br = brown
- ge = yellow
- gn = green
- gr = grey
- hbl = light blue
- or = orange
- pink = pink
- rs = rose-colored
- rt = red
- sw = black
- vi = purple
- ws = white

Plug connection e.g. for cab-chassis:



Plug connection e.g. for control module:

