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# INTRODUCTION

## IDENTIFICATION OF COMPONENTS

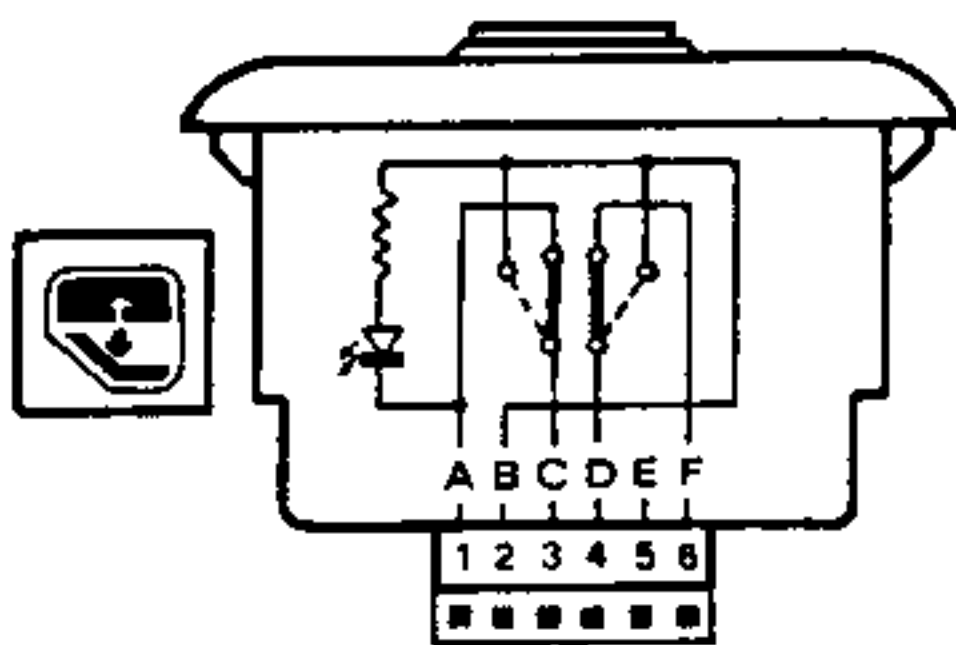
The aim of this manual is to facilitate the search for the required components and their relative connections in order to be able to identify any faults.

For clarity each electrical subsystem, as for example the starting system, heated rear window, main beam lights etc., are described separately following 3 distinct paragraphs:

- **Wiring diagram** arranged in order to facilitate component identification and the relative connections.

The components (shown following a lay-out that mirrors the real-life situation) are aligned on the outside edge of the diagram and sometimes a symbol place next to the component identifies its function.

Example:

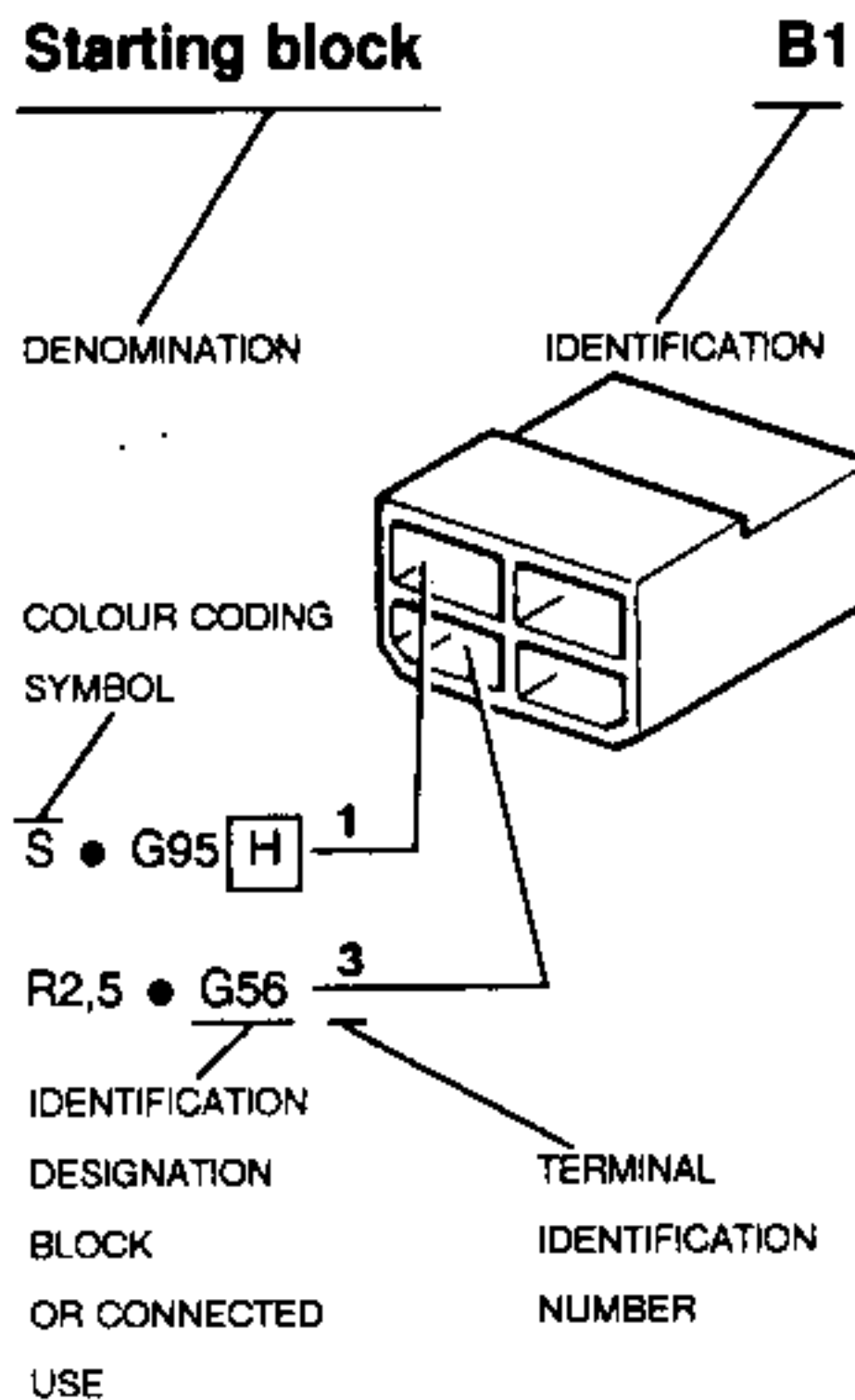


**B21**

Front right power window control switch.

- **Wiring**, illustrates the arrangement of the wires and connectors on the car and also the position of the various electrical components shown with the use of lenses.
- **Connectors**, shown in charts that give information as to the nature and destination of wires connected to them according

to the following example:



Each component is identified by a reference designation composed of a letter and a number (e.g.: B1). The letter identifies component type according to the following symbols:

- A Starting - Recharging
- B Manual electric controls
- C Instruments
- D Warning lamps
- E External lights
- F Interior lights
- G Fuseboxes - connectors - earths
- H Switches
- I Relays
- L Senders
- M Solenoids - solenoid valves
- N Electronic devices - intermittences - timers
- O Ancillary equipment
- P Electric motors
- Q Heater/ventilation - air conditioning system
- R Safety devices
- S Electronic fuel injection
- T Diagnosis

The key for all the components is given under the specific group.

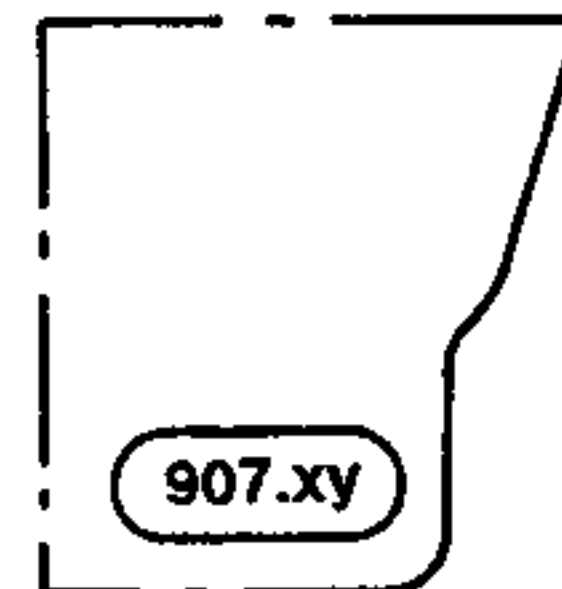
## Variations

Each wiring diagram may be applicable to more than more than one model in the 33 range.

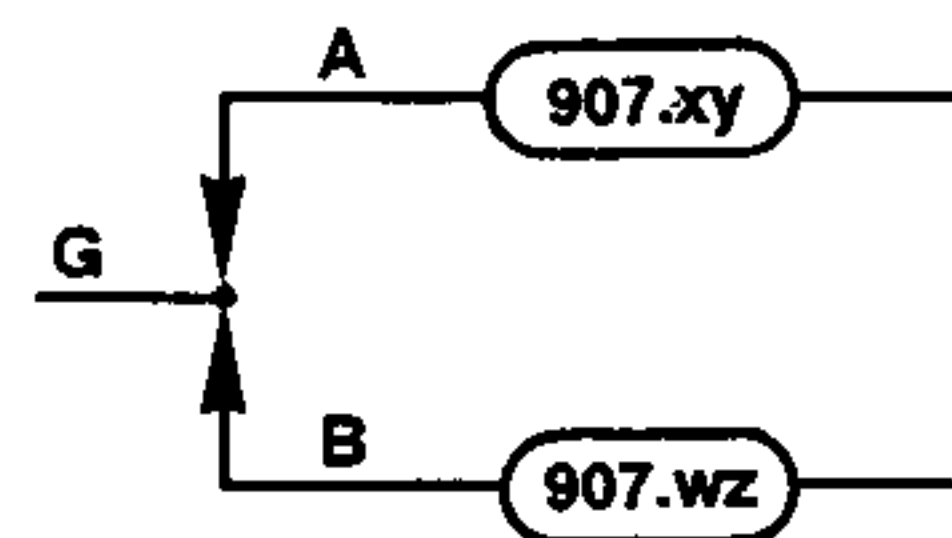
In cases where the different versions require variations in the electrical system, the wiring diagram shows each variation and where necessary duplicates the part of the circuit affected.

Any variations present between models is given in accordance with the following symbols:

- The dashed line and circled point on the diagrams, the areas containing the specific variations for the vehicle indicated with "907.xy".



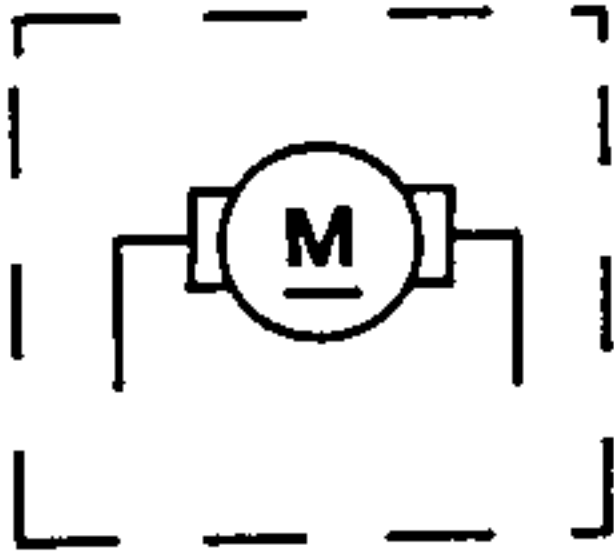
- The connection identifies two wiring variations, given as an alternative and connected in the same fashion. The variations refer to the models indicated with "907.xy" and "907.wz" respectively.



## ELECTRICAL SYSTEM

### Components fitted upon request

In the wiring diagrams a dashed line encloses the components that can be fitted upon request.



### IDENTIFICATION OF MODELS

The models in the 33 range dealt with in this group can be identified by way of the following tables:

#### MODEL 33

<b>907.A1</b>	33 1.7 IE
<b>907.A1A Δ</b>	33 1.7 IE
<b>907.A1D</b>	33 1.7 IE 4x4
<b>907.A1E Δ</b>	33 1.7 IE 4x4
<b>907.A1B</b>	33 Boxer 16V
<b>907.A1C Δ</b>	33 Boxer 16V

#### SPORT WAGON MODELS

<b>907.B1</b>	SPORT WAGON 1.7 IE
<b>907.B1A Δ</b>	SPORT WAGON 1.7 IE
<b>907.B1D</b>	SPORT WAGON 1.7 IE 4x4
<b>907.B1E Δ</b>	SPORT WAGON 1.7 IE 4x4

Δ Vehicles with catalytic converter.

The wiring diagrams for the **Sport Wagon** are identical to those of the 33 models of equal motorization. For this reason, apart from specific indications they will be identified using a single system of symbols following the 33 model which is:  
**907.A1** for the 33 1.7 IE - SPORT WAGON 1.7 IE versions;  
**907.A1D** for the 33 1.7 IE 4x4 - SPORT WAGON 1.7 IE 4x4 versions.

### CABLE IDENTIFICATION

A code composed of one or more letters and a number (e.g.: BN!) is marked on the end of each cable. The letters identify the colour of the cable and the numbers indicate its thickness (**N.B. The cable section not indicated is 0.5 mm<sup>2</sup>**).

For convenience the names of the colours have been abbreviated. The list of these abbreviations is given below:

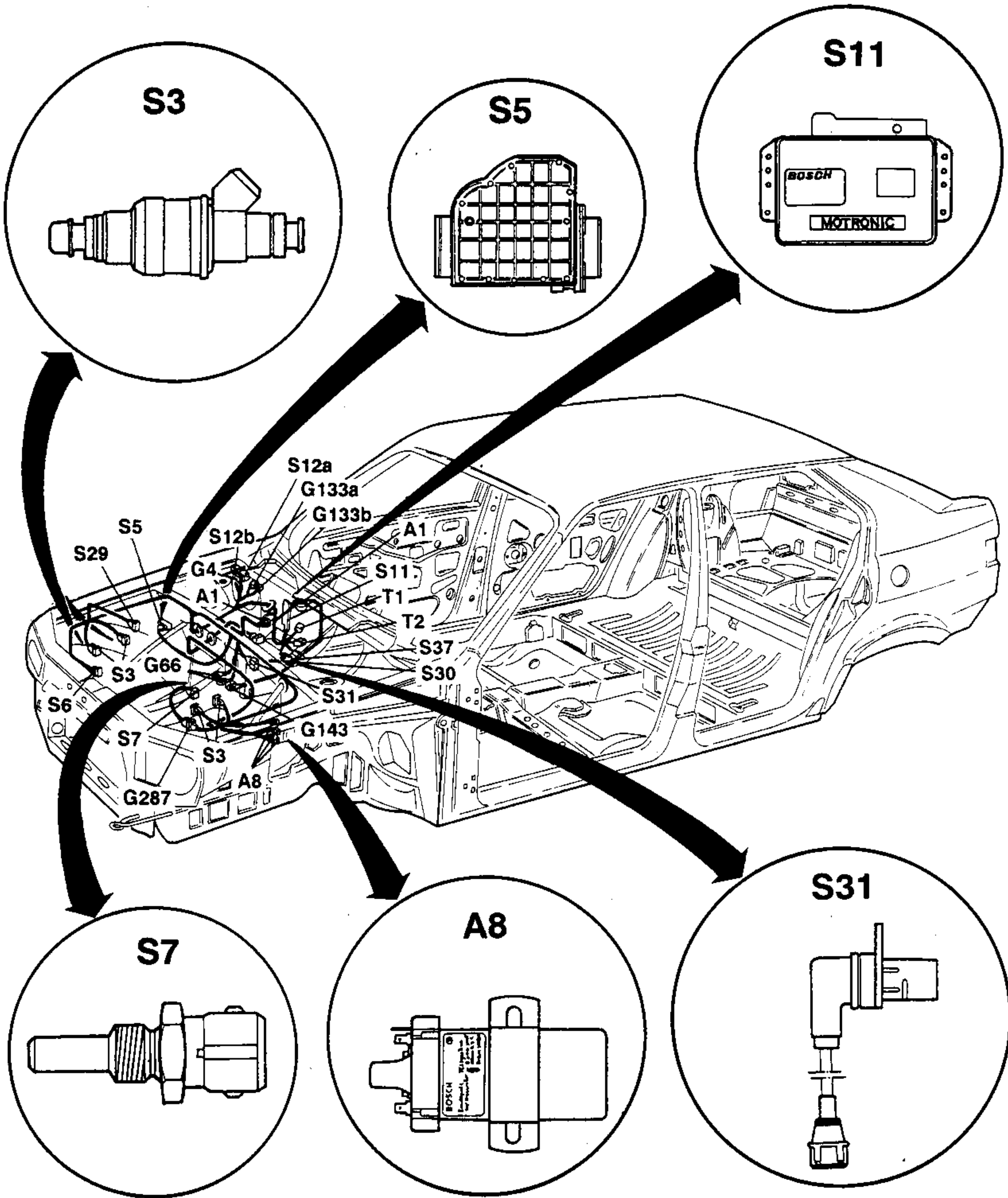
<b>A</b>	Light-blue
<b>AB</b>	Light-blue white
<b>AG</b>	Light-blue yellow
<b>AN</b>	Light-blue black
<b>AR</b>	Light-blue red
<b>B</b>	White
<b>BN</b>	White black
<b>BR</b>	White red
<b>BL</b>	Blue

<b>BLN</b>	Blue black
<b>BLR</b>	Blue red
<b>Br</b>	Dark brown
<b>C</b>	Amber
<b>CB</b>	Amber white
<b>CN</b>	Amber black
<b>G</b>	Yellow
<b>GB</b>	Yellow white
<b>GN</b>	Yellow black
<b>GR</b>	Yellow red
<b>GV</b>	Yellow green
<b>H</b>	Grey
<b>HG</b>	Grey yellow
<b>HN</b>	Grey black
<b>HR</b>	Grey red
<b>HV</b>	Grey green
<b>M</b>	Brown
<b>MB</b>	Brown white
<b>MG</b>	Brown yellow
<b>N</b>	Black
<b>No</b>	Hazel brown
<b>R</b>	Red
<b>RN</b>	Red black
<b>S</b>	Pink
<b>SB</b>	Pink white
<b>SN</b>	Pink black
<b>V</b>	Green
<b>VB</b>	Green white
<b>VN</b>	Green black
<b>Z</b>	Purple
<b>ZB</b>	Purple white
<b>ZN</b>	Purple black



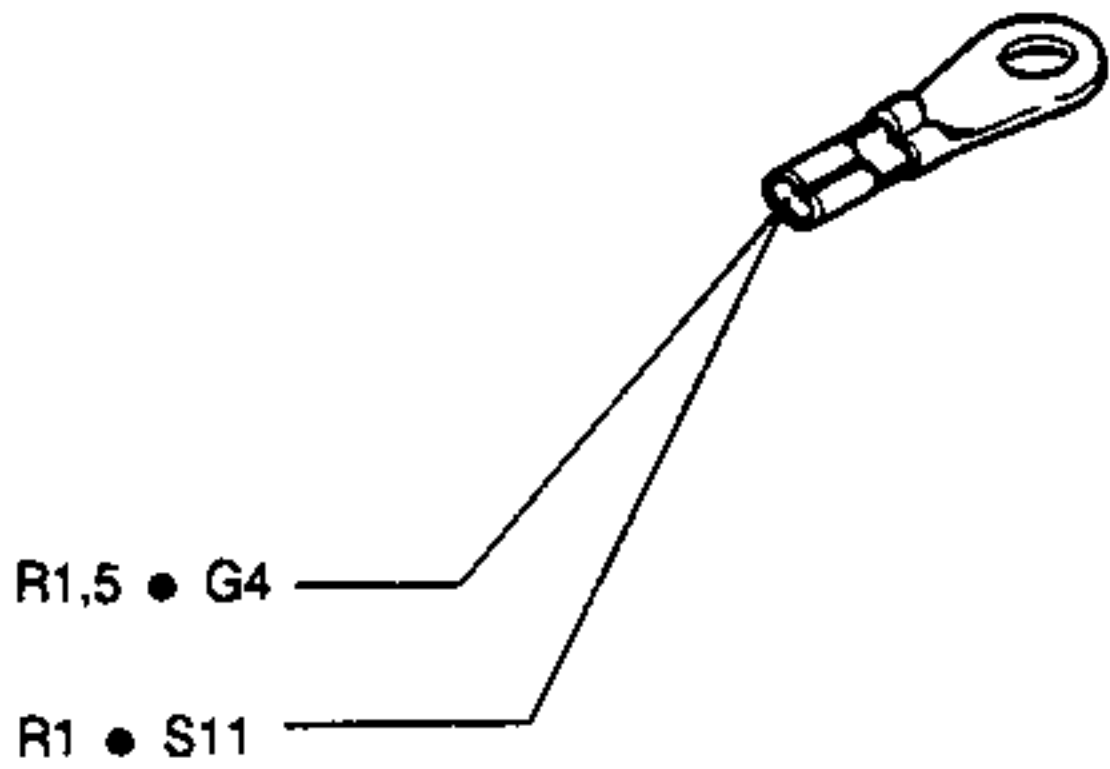
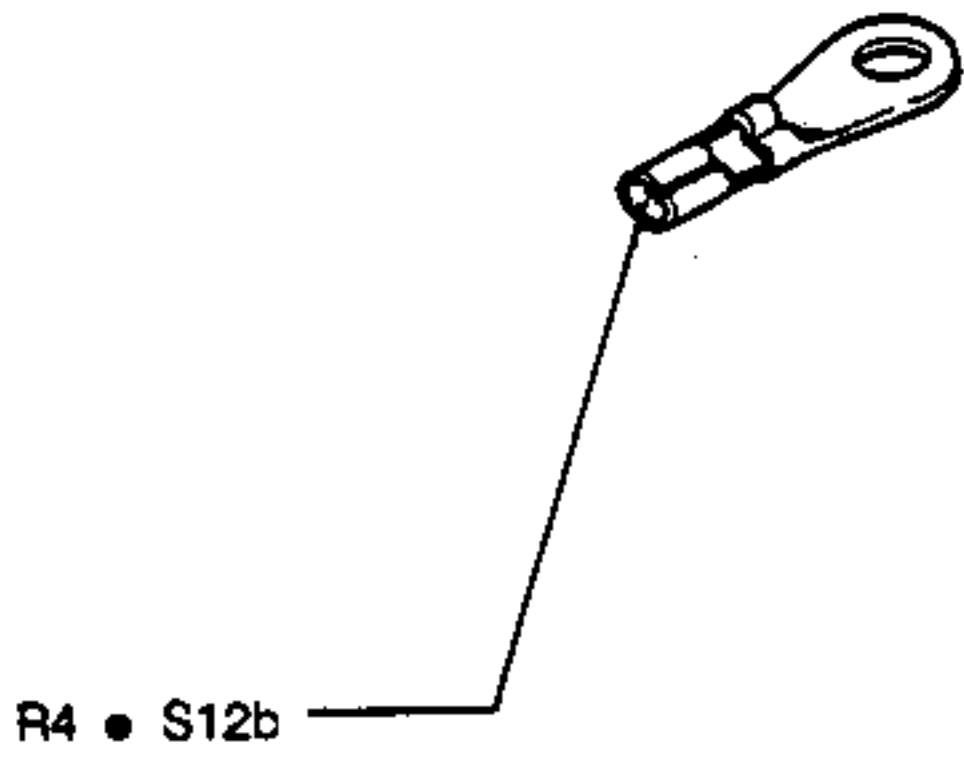
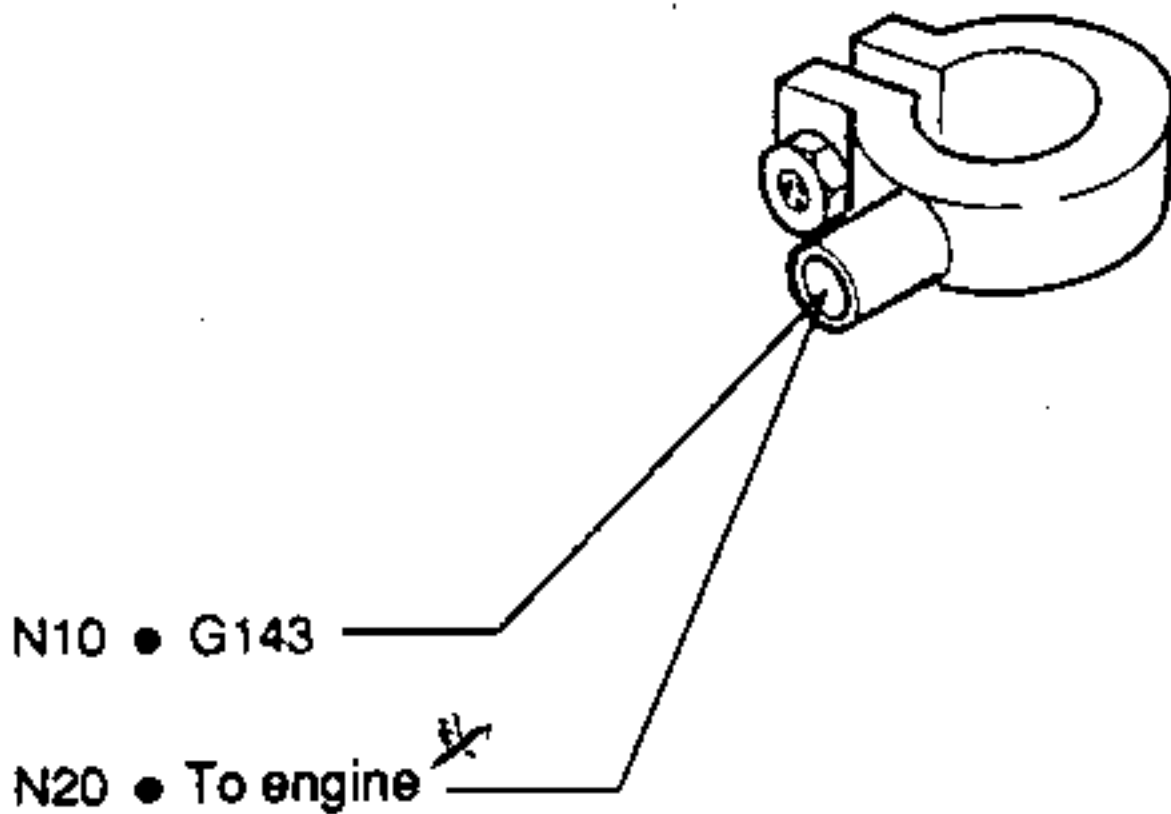
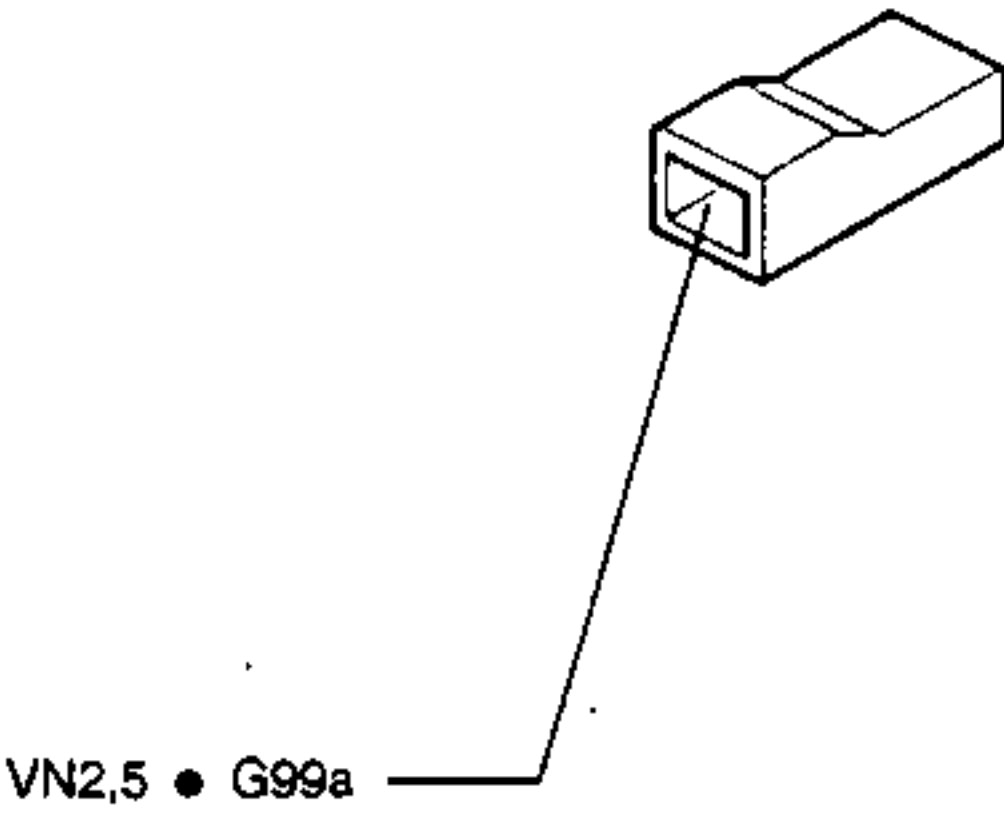
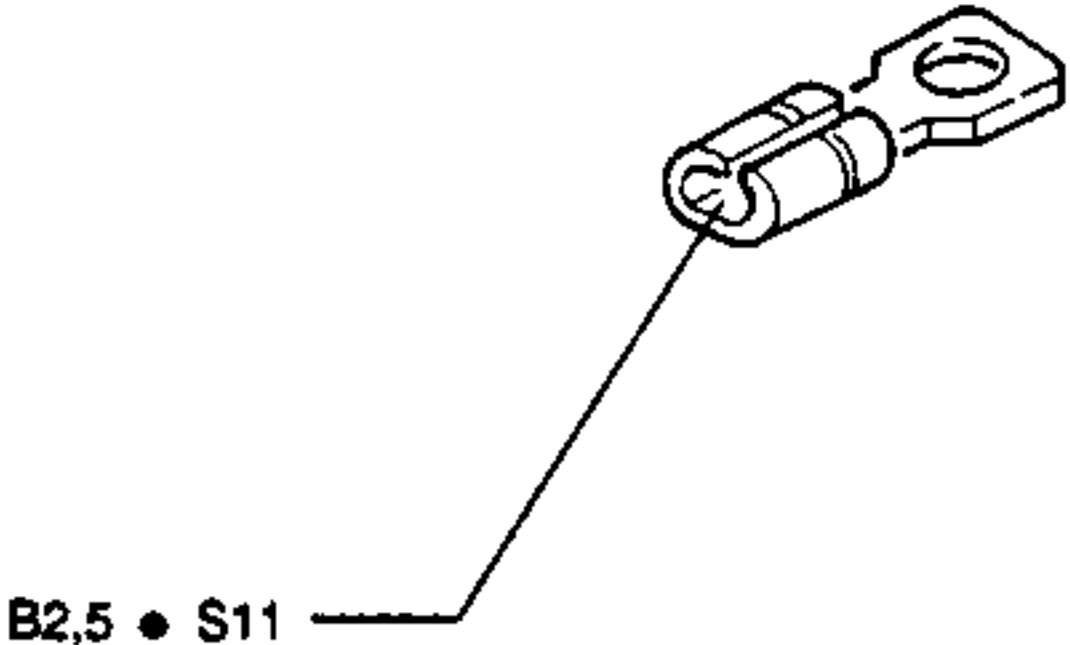
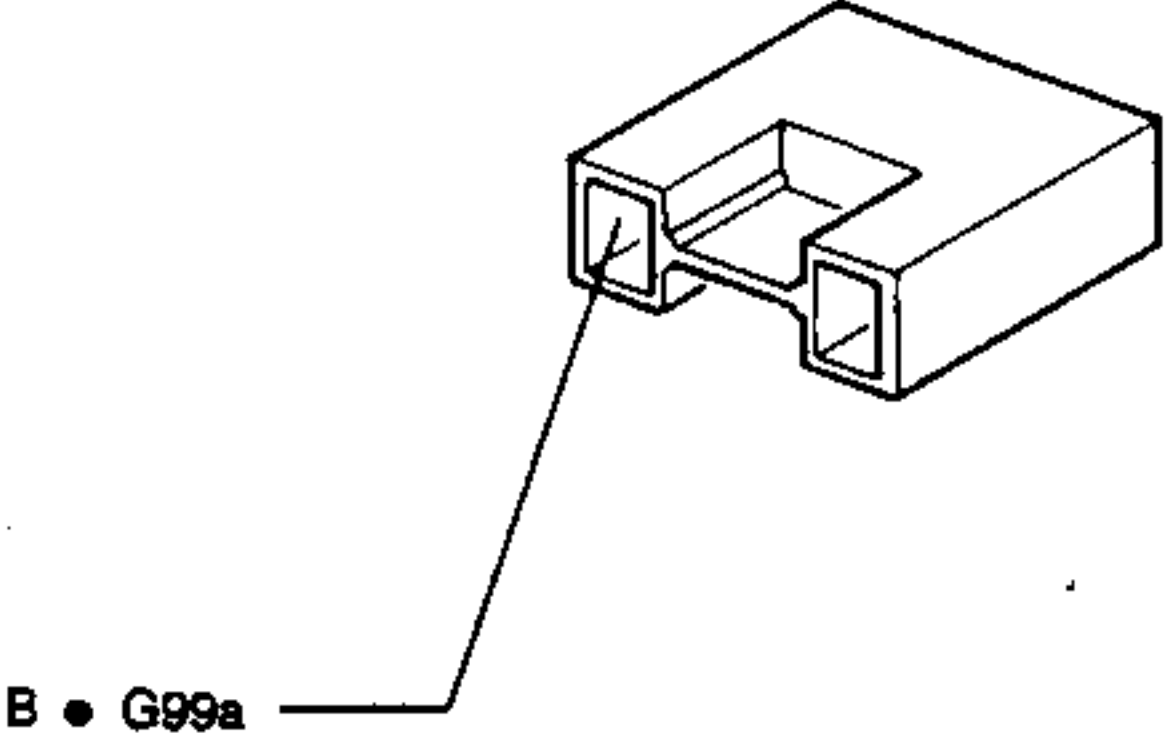
ELECTRICAL SYSTEM

Wiring

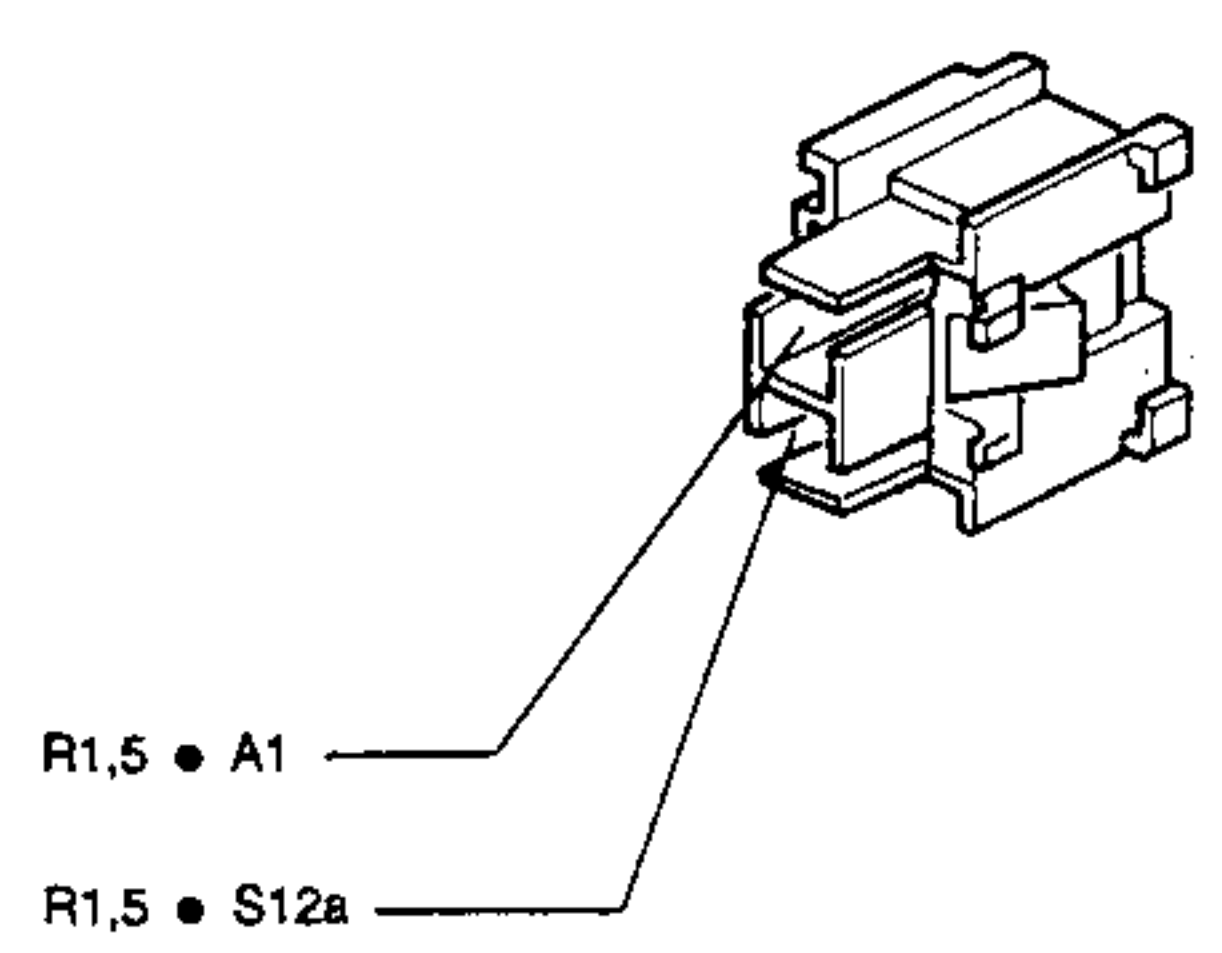
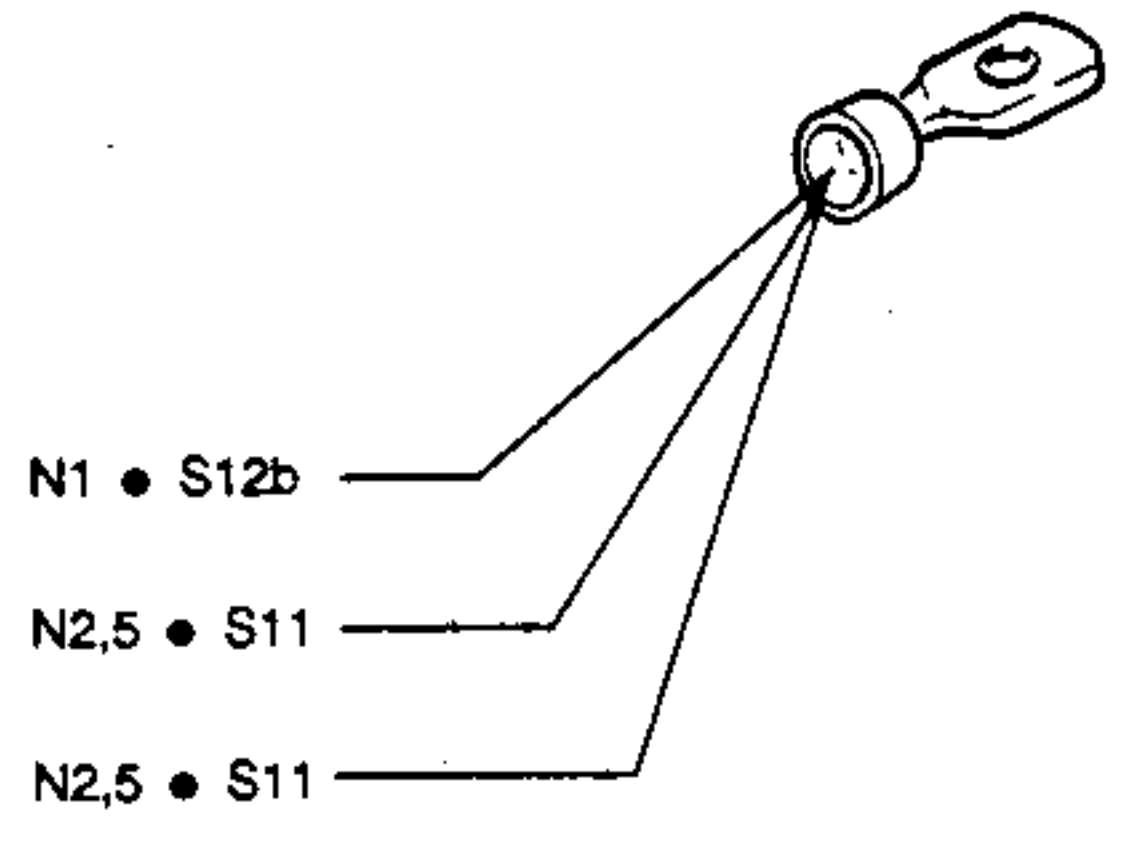
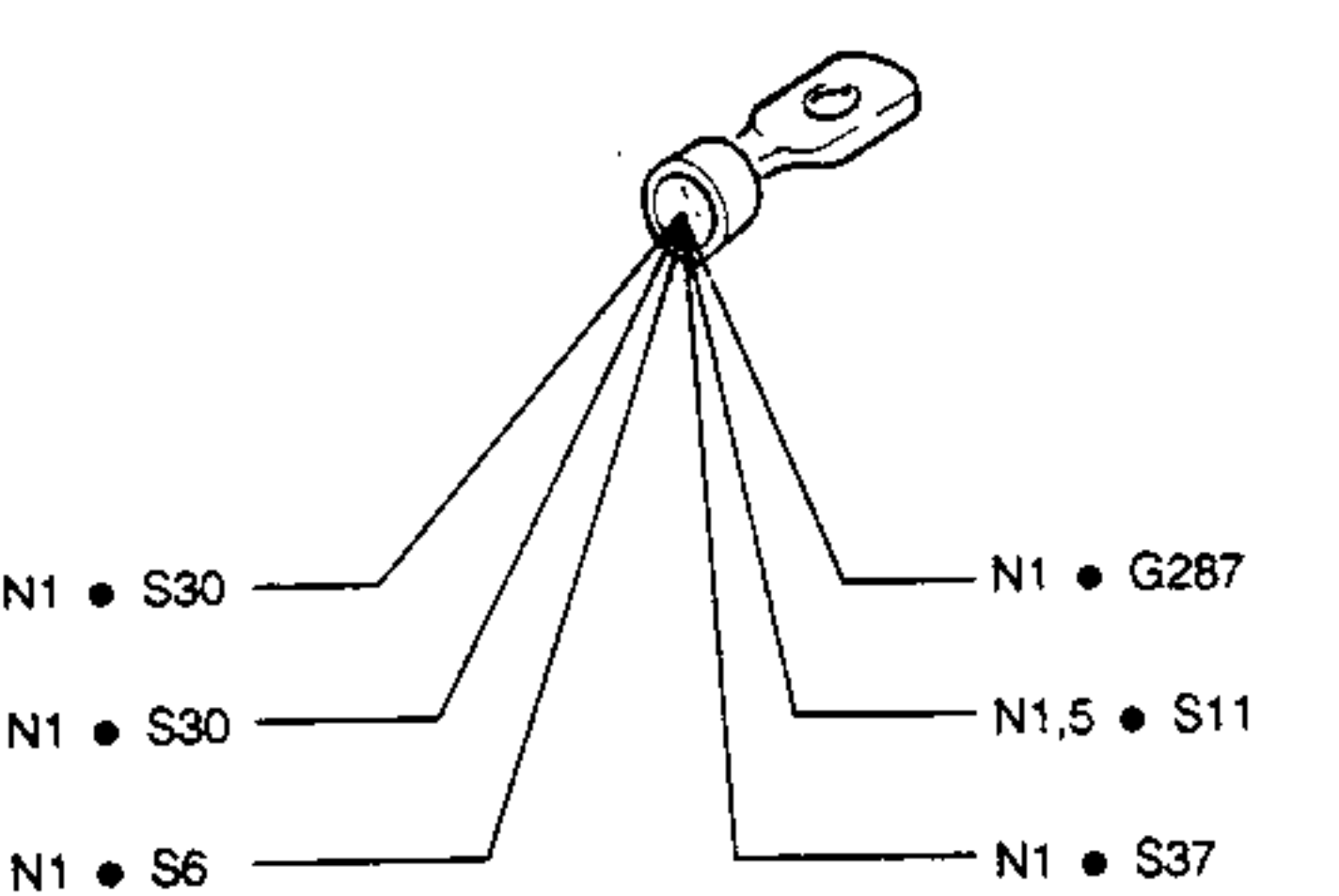
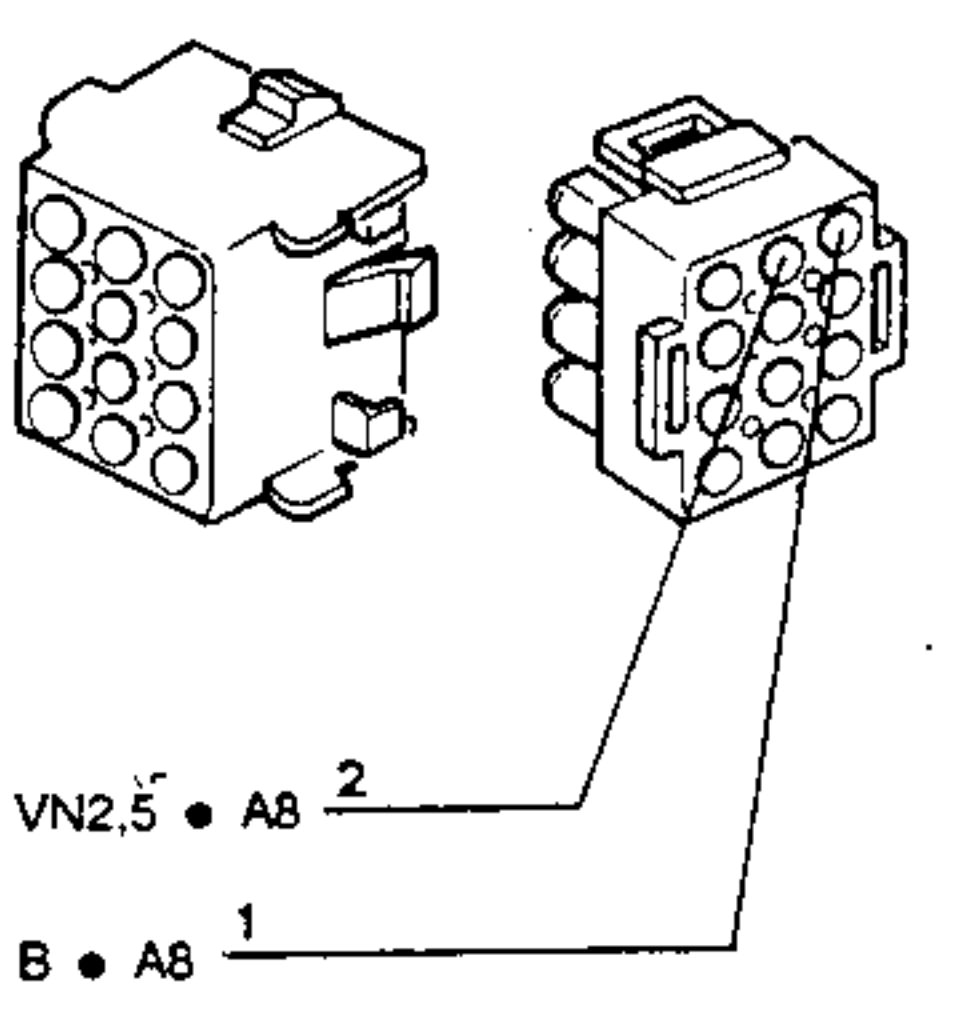
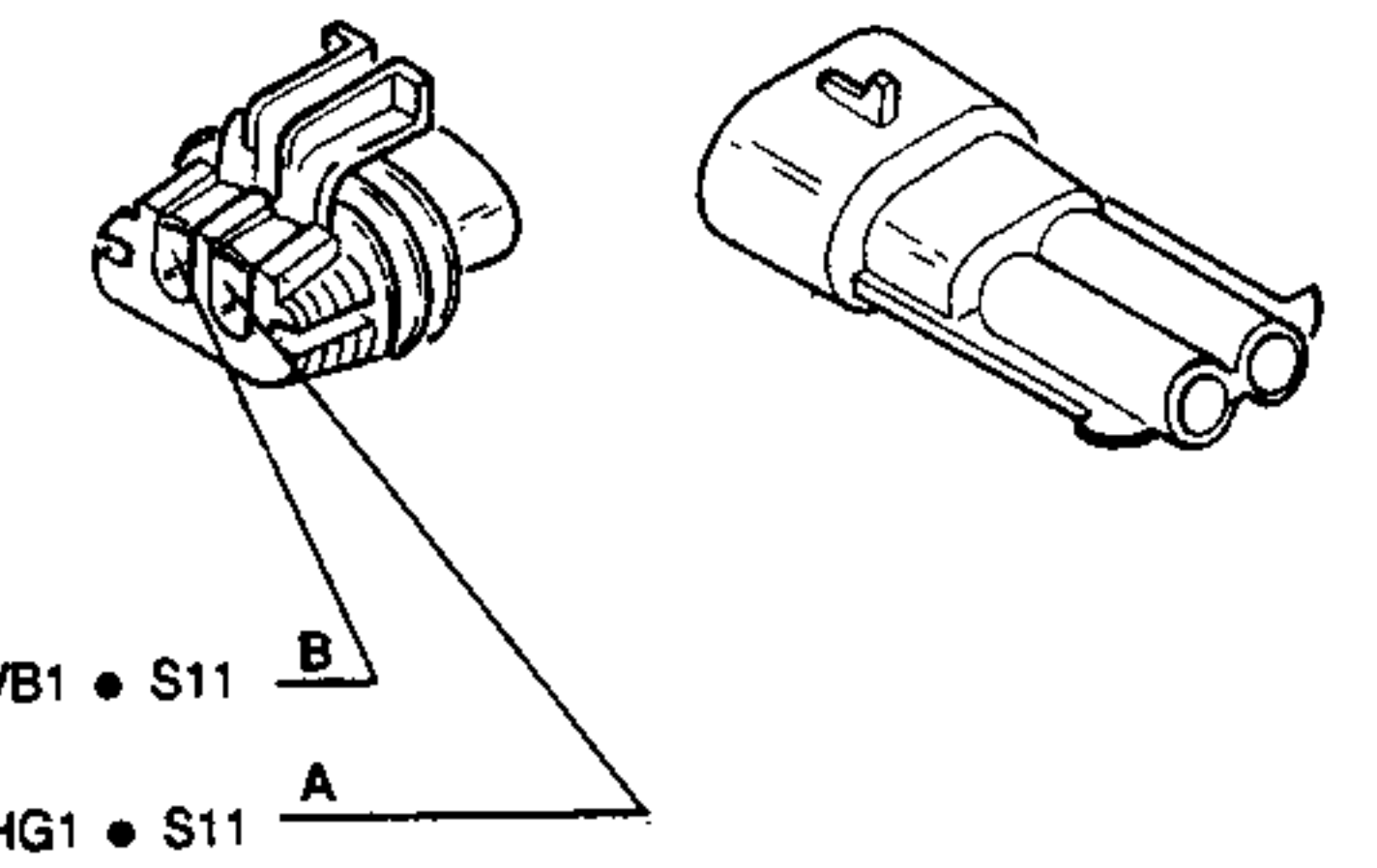
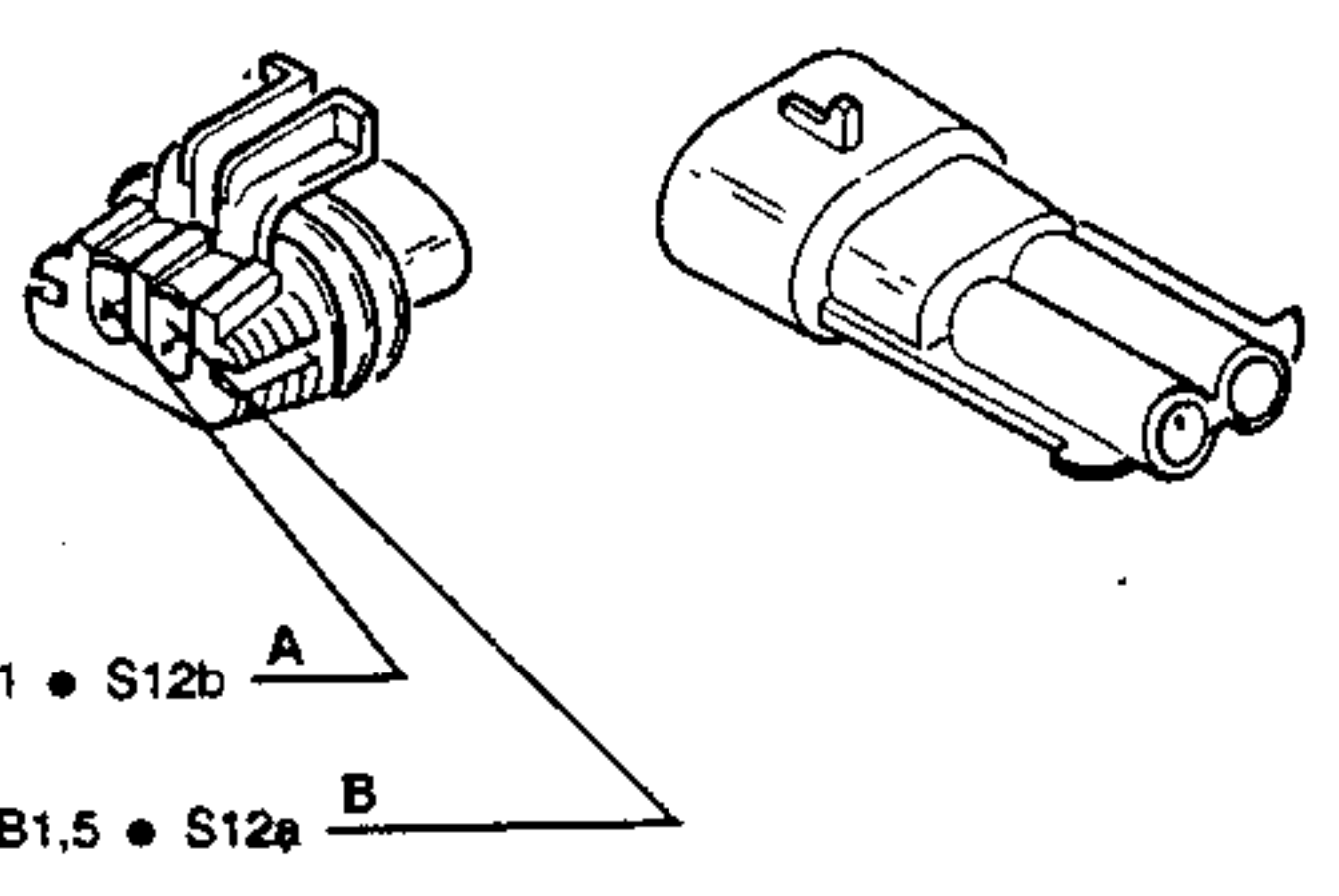


ELECTRICAL SYSTEM

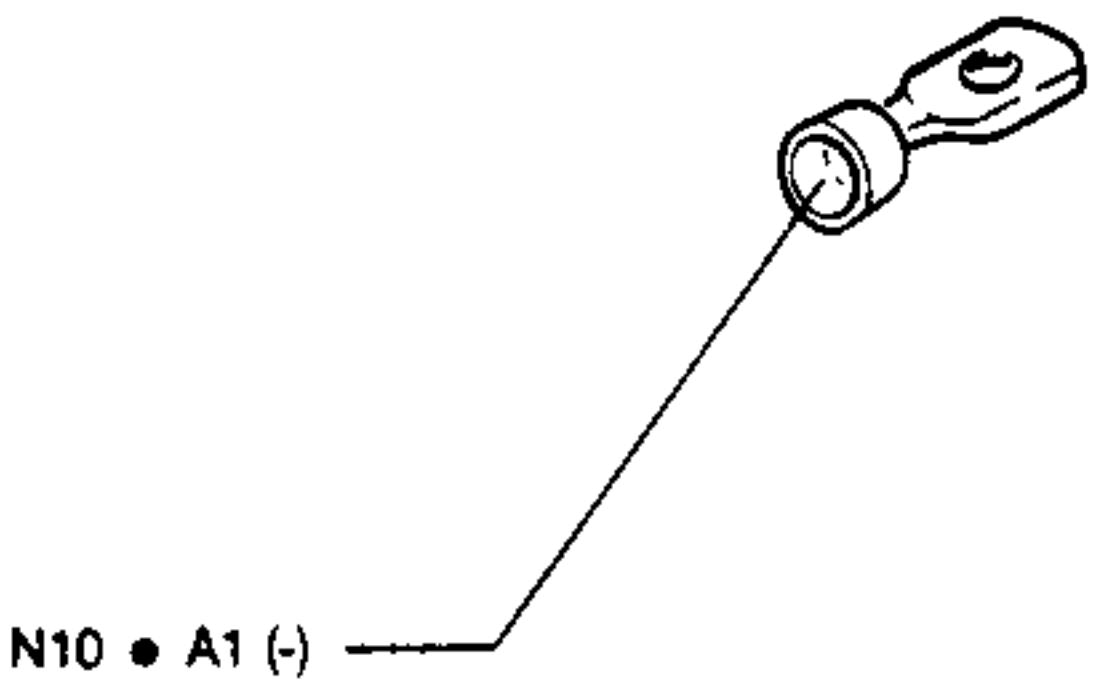
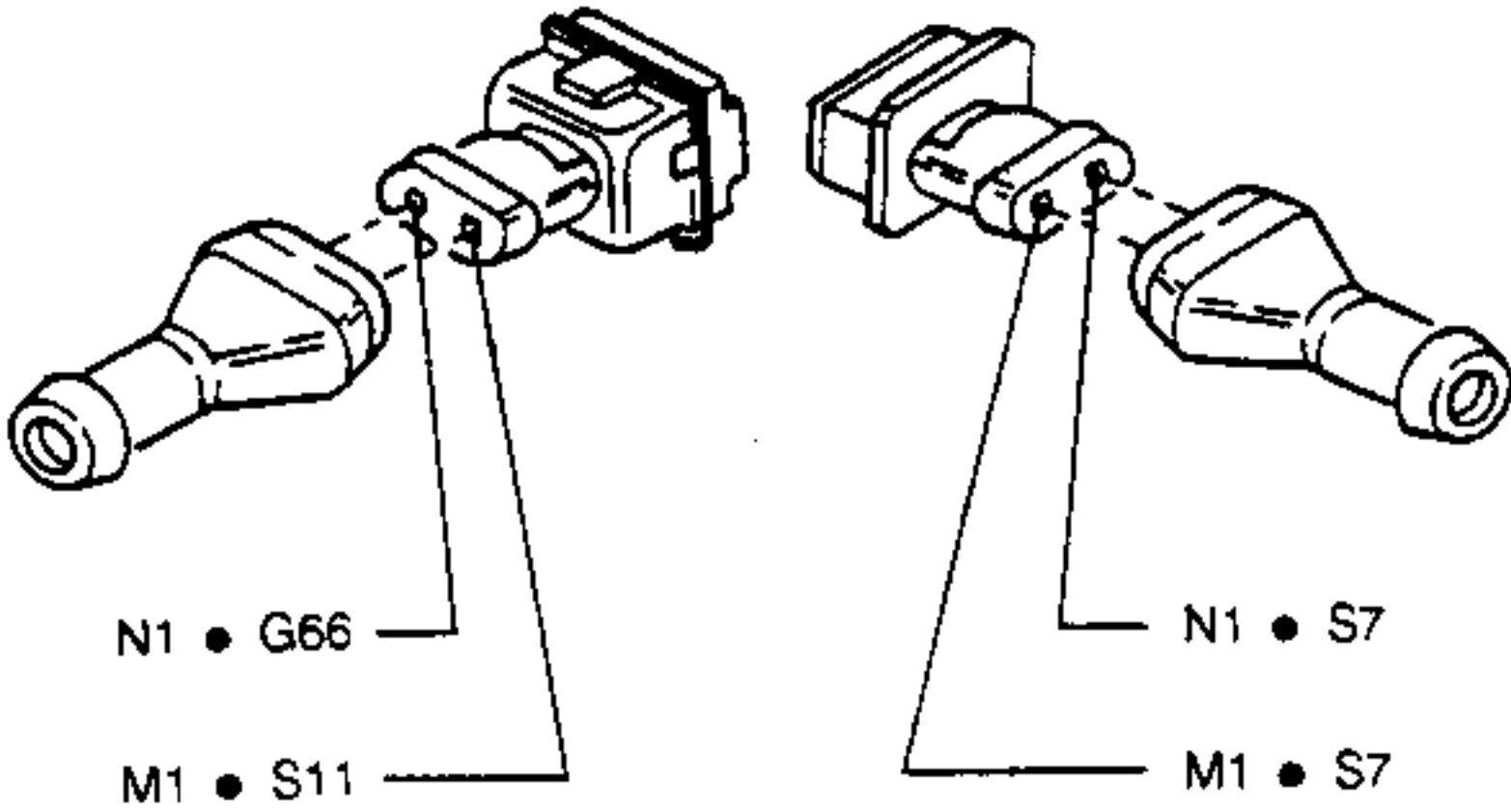
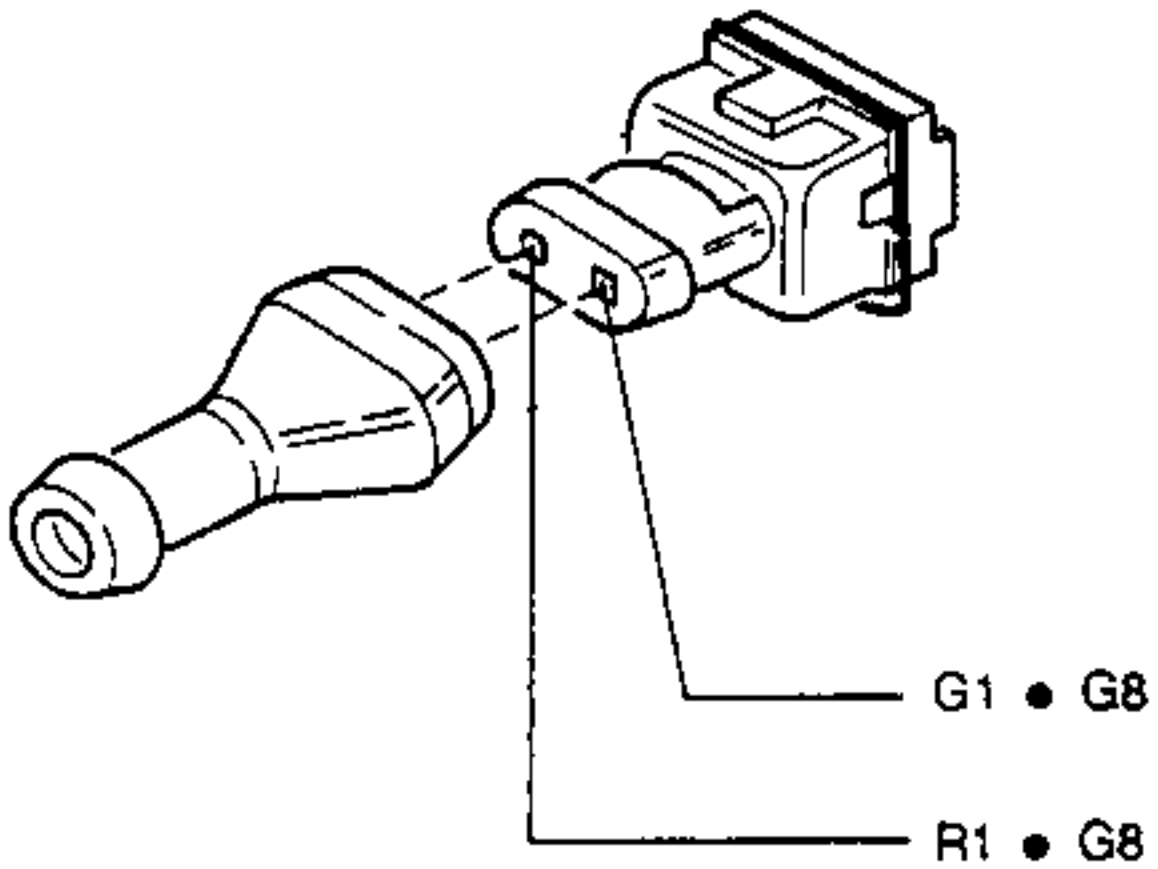
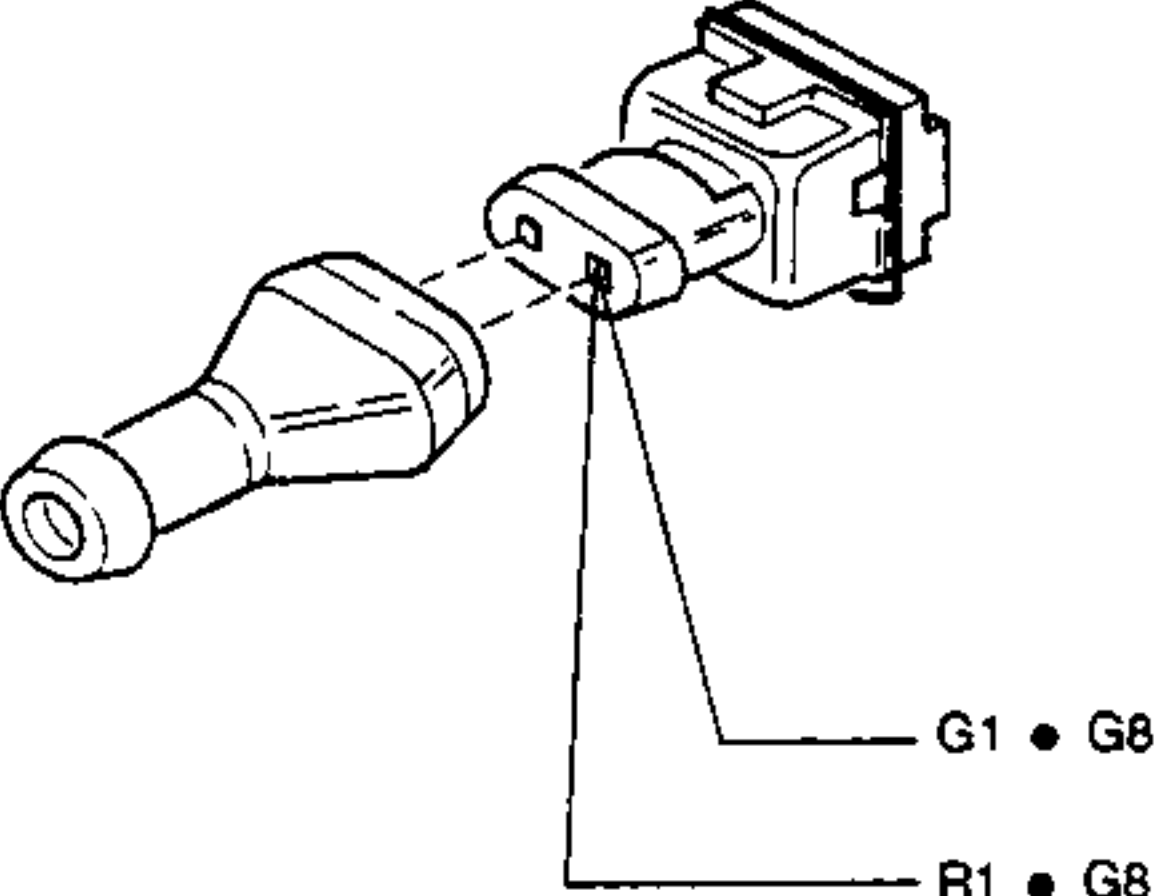
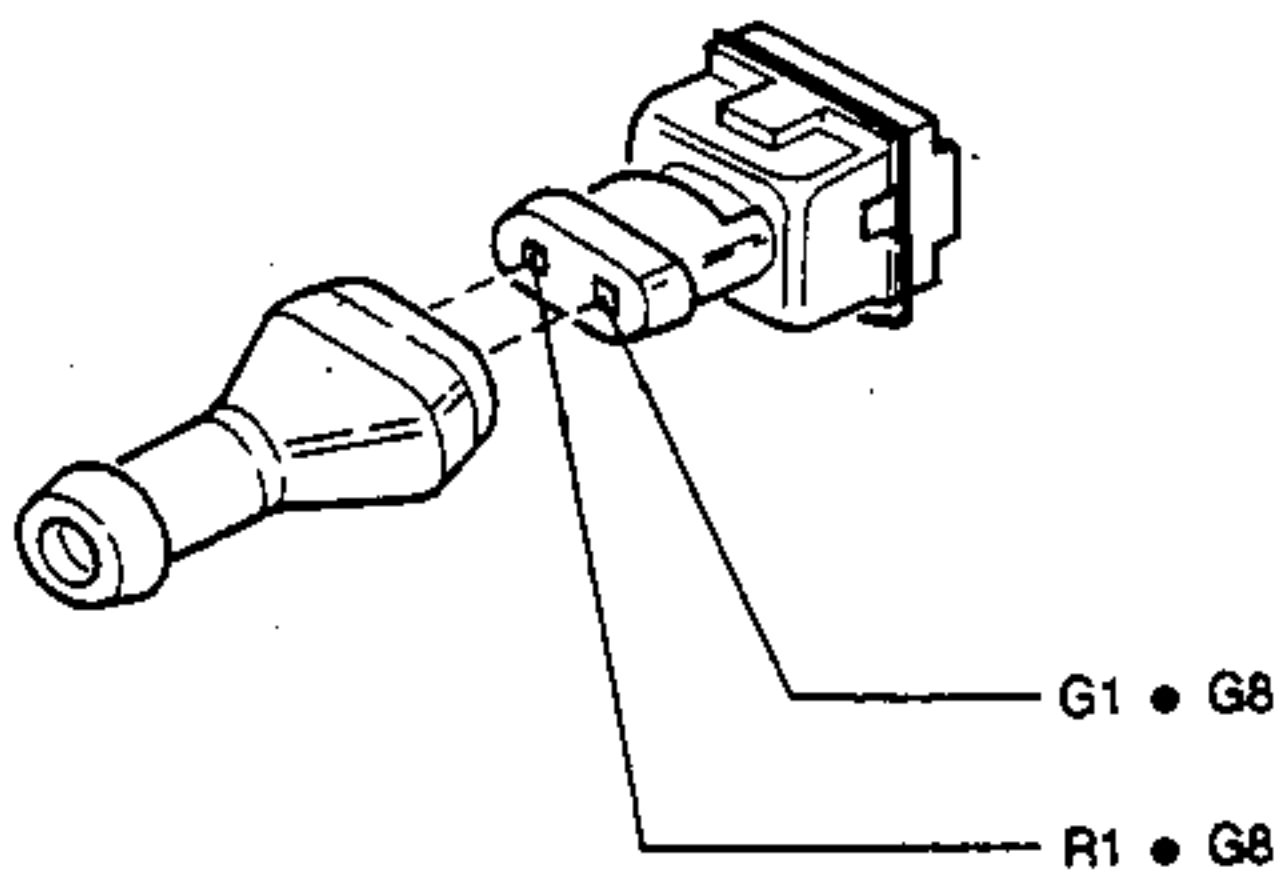
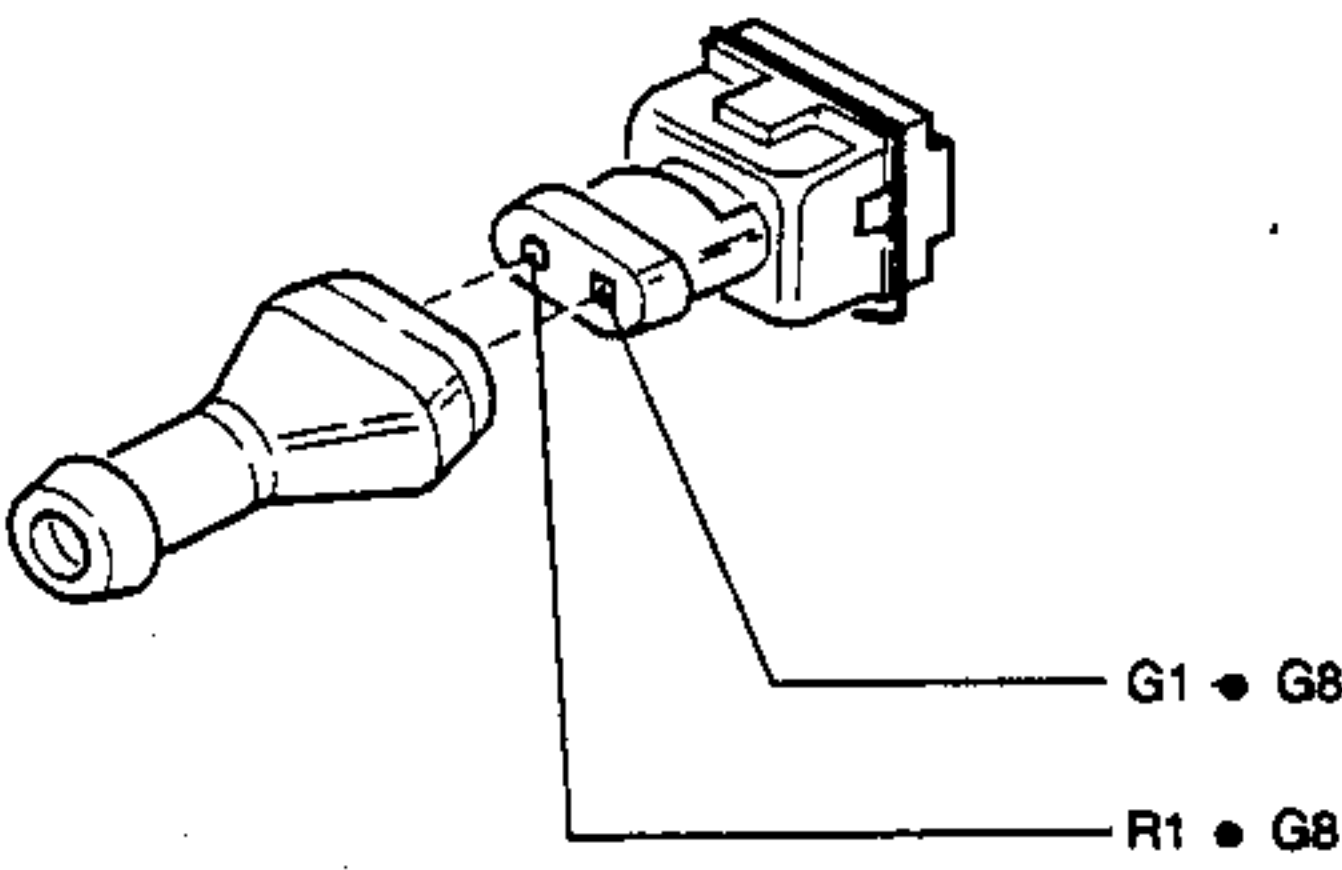
Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (+)</p>	<p>A1</p>
 <p>R1,5 • G4</p> <p>R1 • S11</p> <p>33.90.014</p>		 <p>R4 • S12b</p> <p>33.90.014</p>	
<p>Battery (-)</p>	<p>A1</p>	<p>Ignition coil (15)</p>	<p>A8</p>
 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>		 <p>VN2,5 • G99a</p> <p>33.90.015</p>	
<p>Ignition coil (1)</p>	<p>A8</p>	<p>Ignition coil (1)</p>	<p>A8</p>
 <p>B2,5 • S11</p> <p>33.90.045</p>		 <p>B • G99a</p> <p>33.90.052</p>	

# ELECTRICAL SYSTEM

<p><b>Free fuse</b></p>	<p><b>G4</b></p>	<p><b>Motronic wiring ground</b></p>	<p><b>G66</b></p>
			
<p>33.90.046</p>		<p>33.90.001</p>	
<p><b>Motronic wiring ground</b></p>	<p><b>G66</b></p>	<p><b>Connector for engine dashboard A</b></p>	<p><b>G99a</b></p>
			
<p>33.90.001</p>		<p>33.90.016</p>	
<p><b>Ignition - electronic injection A wiring connection</b></p>	<p><b>G133a</b></p>	<p><b>Ignition - electronic injection B wiring connection</b></p>	<p><b>G133b</b></p>
			
<p>33.90.055</p>		<p>33.90.055</p>	

**ELECTRICAL SYSTEM**

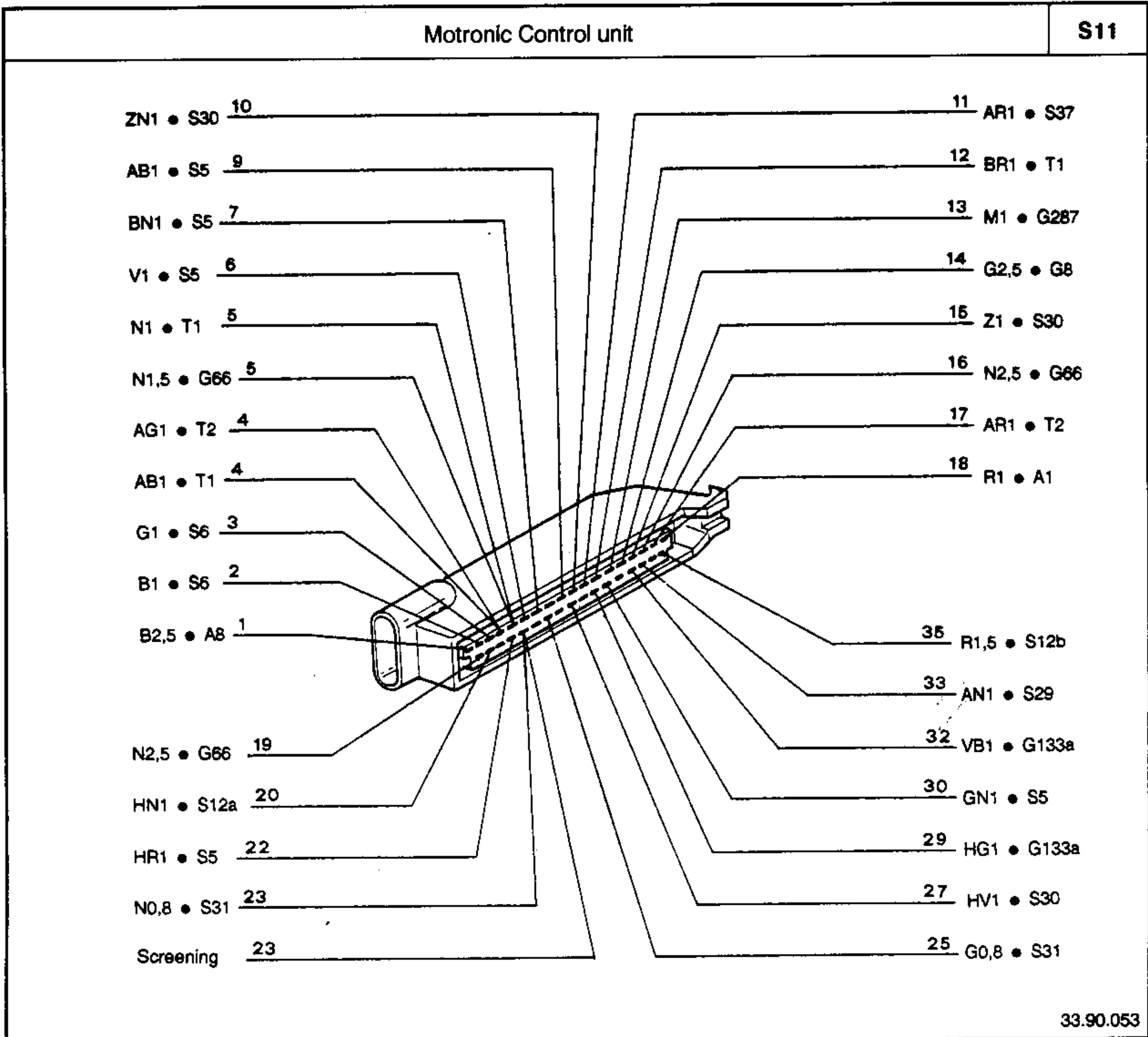
<p align="center">Central service compartment earth</p>	<p align="center"><b>G143</b></p>	<p align="center">Injection wiring - engine coolant temperature sensor wiring connection</p>	<p align="center"><b>G287</b></p>
 <p>N10 • A1 (-)</p> <p align="right">33.90.001</p>		 <p>N1 • G66 M1 • S11</p> <p>N1 • S7 M1 • S7</p> <p align="right">33.90.077</p>	
<p align="center">Electroinjector 1</p>	<p align="center"><b>S3</b></p>	<p align="center">Electroinjector 2</p>	<p align="center"><b>S3</b></p>
 <p>G1 • G8 R1 • G8</p> <p align="right">33.90.047</p>		 <p>G1 • G8 R1 • G8</p> <p align="right">33.90.047</p>	
<p align="center">Electroinjector 3</p>	<p align="center"><b>S3</b></p>	<p align="center">Electroinjector 4</p>	<p align="center"><b>S3</b></p>
 <p>G1 • G8 R1 • G8</p> <p align="right">33.90.047</p>		 <p>G1 • G8 R1 • G8</p> <p align="right">33.90.047</p>	



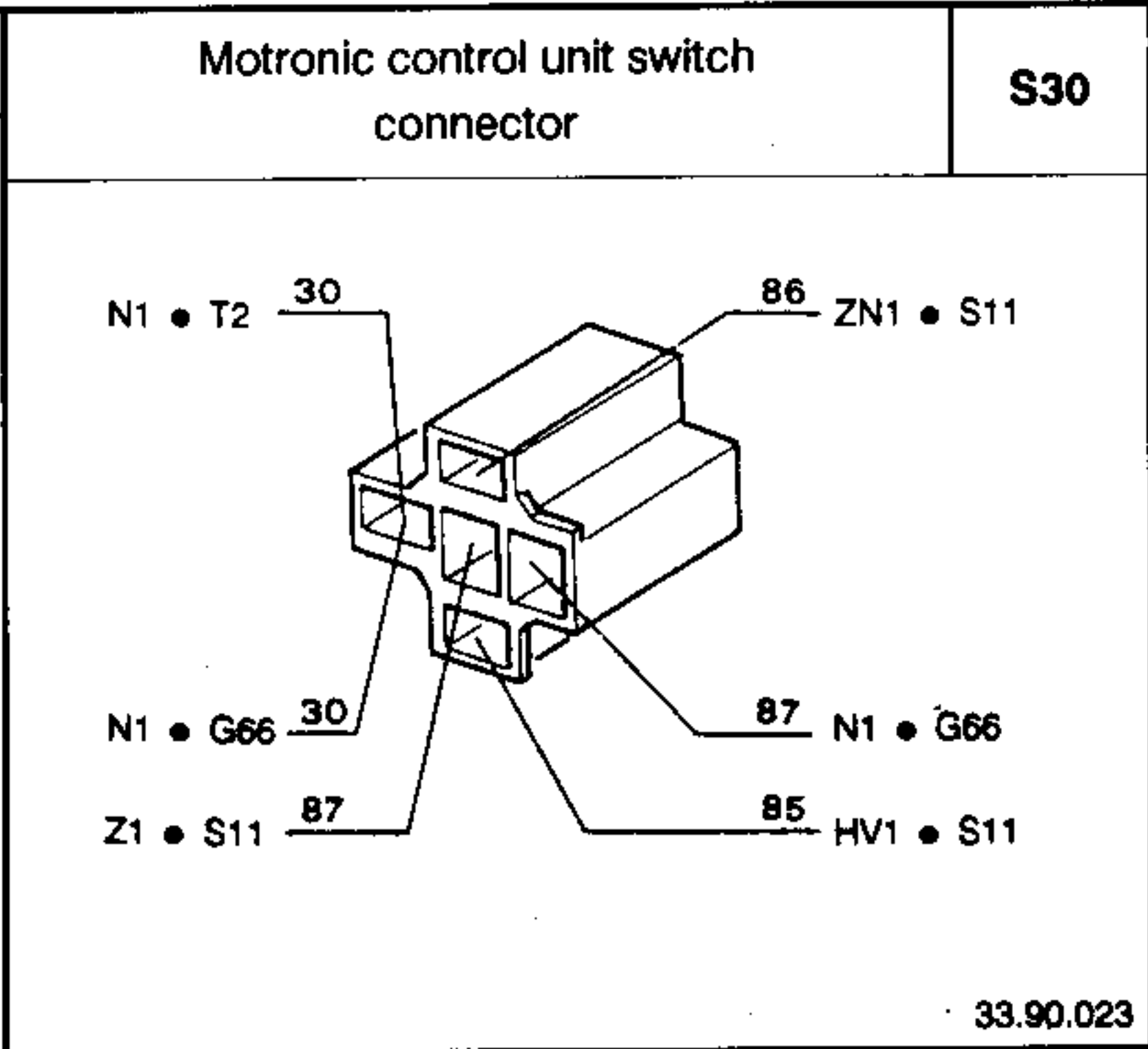
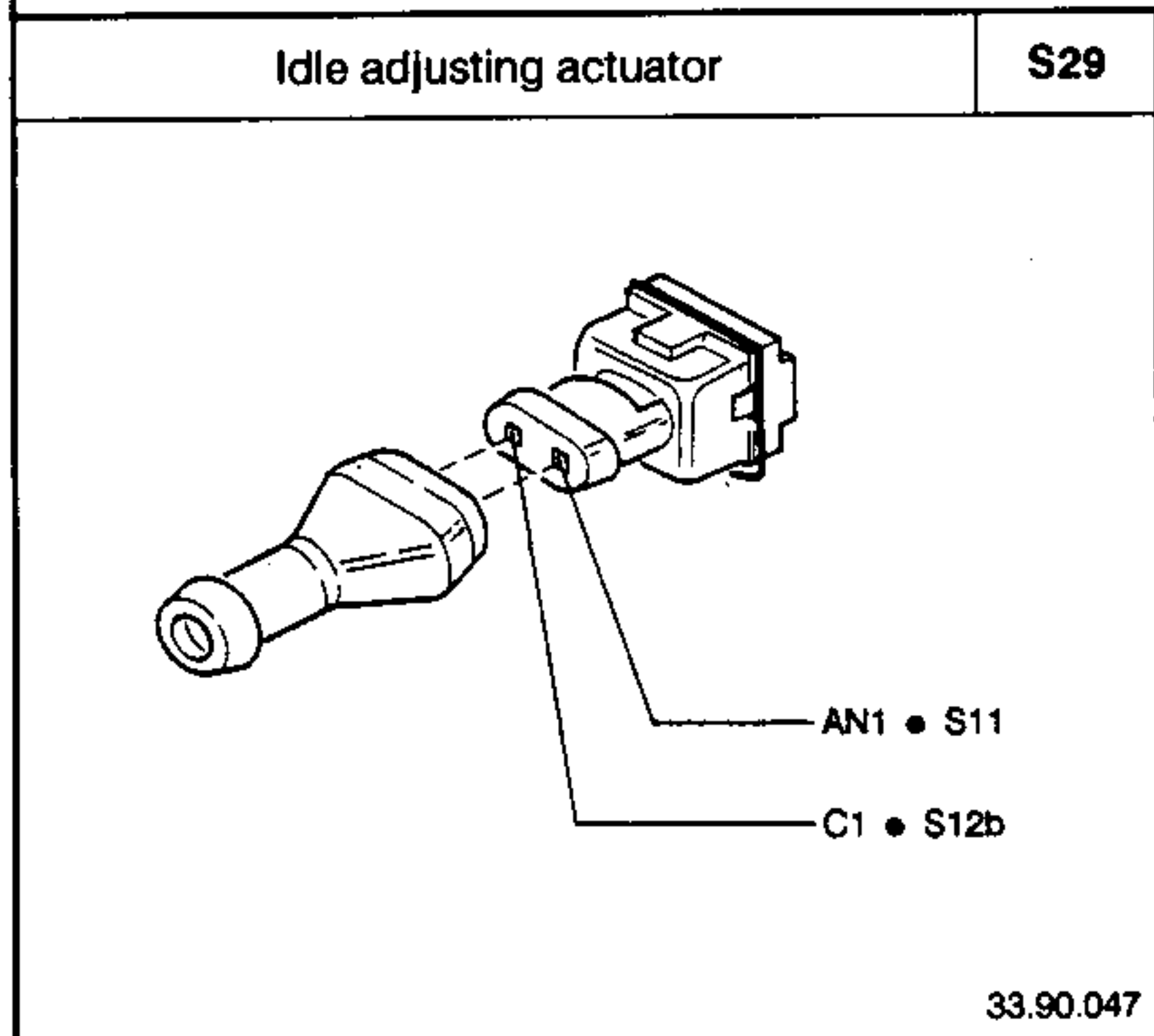
# ELECTRICAL SYSTEM

<b>Air flow gauge (before modification)</b>	<b>S5</b>	<b>Air flow gauge (after modification)</b>	<b>S5</b>
<p style="text-align: right;">33.90.050</p>		<p style="text-align: right;">33.90.048</p>	
<b>Accelerator butterfly switch</b>	<b>S6</b>	<b>Engine coolant temperature sensor</b>	<b>S7</b>
<p style="text-align: right;">33.90.049</p>		<p style="text-align: right;">33.90.047</p>	
<b>Petrol pump Motronic relay</b>	<b>S12a</b>	<b>Motronic relay with diode</b>	<b>S12b</b>
<p style="text-align: right;">33.90.007</p>		<p style="text-align: right;">33.90.007</p>	

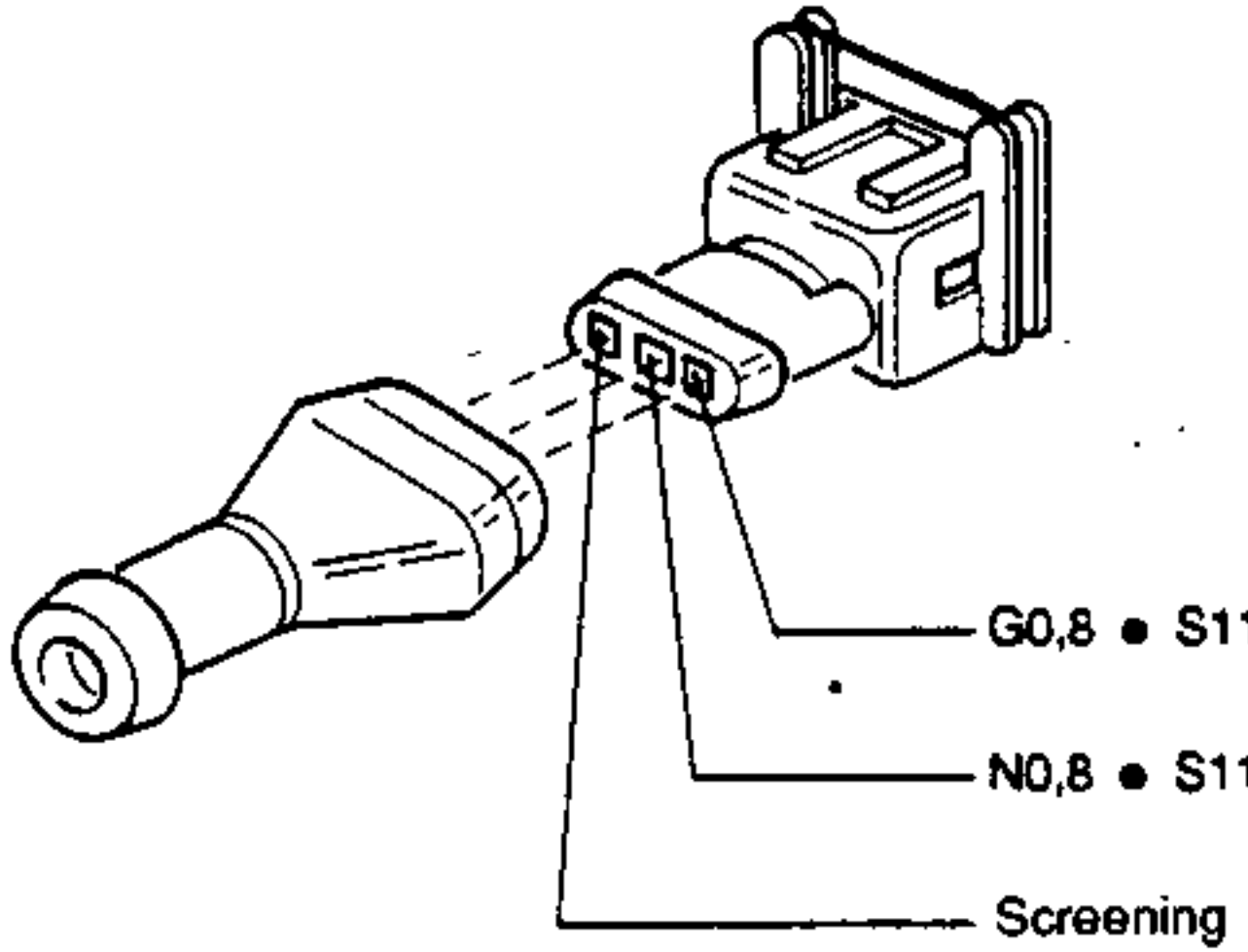
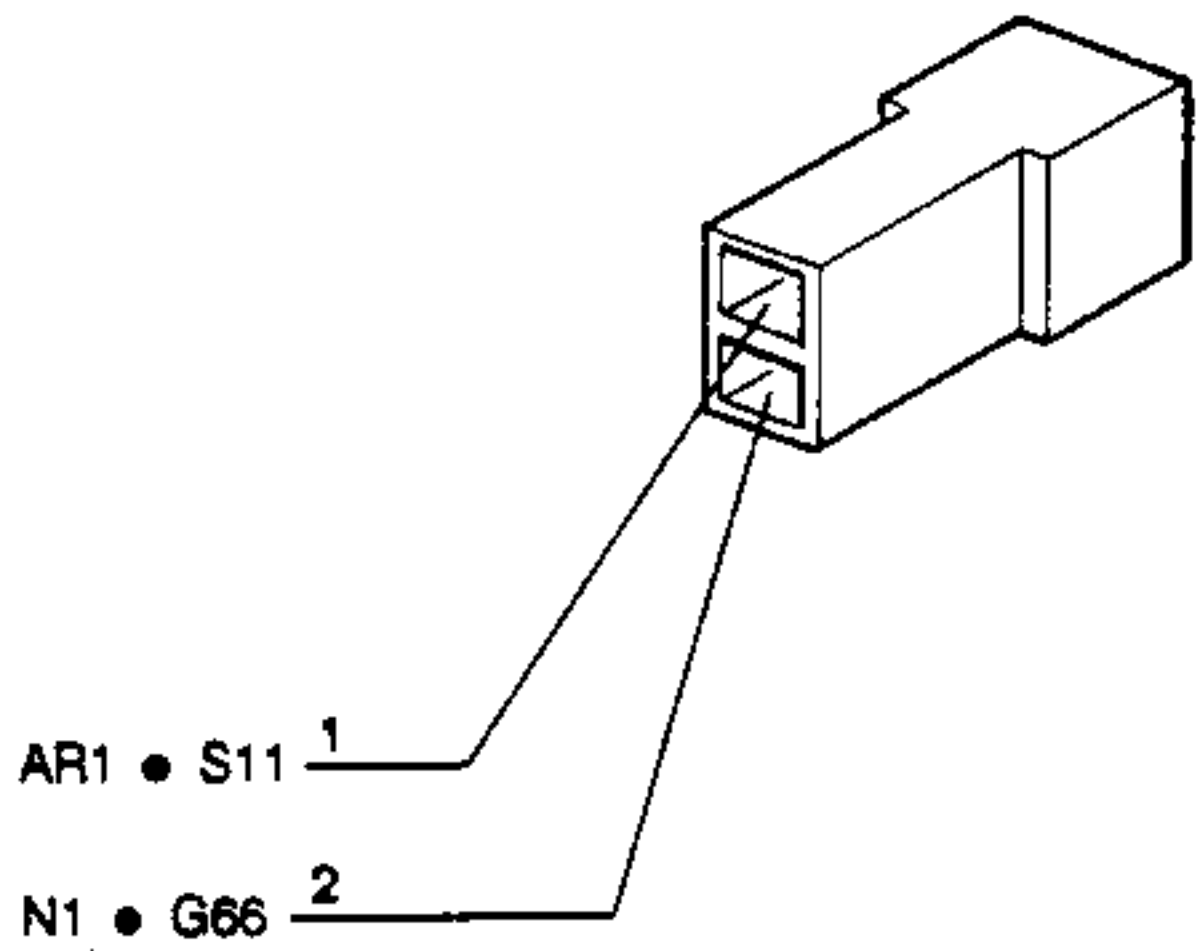
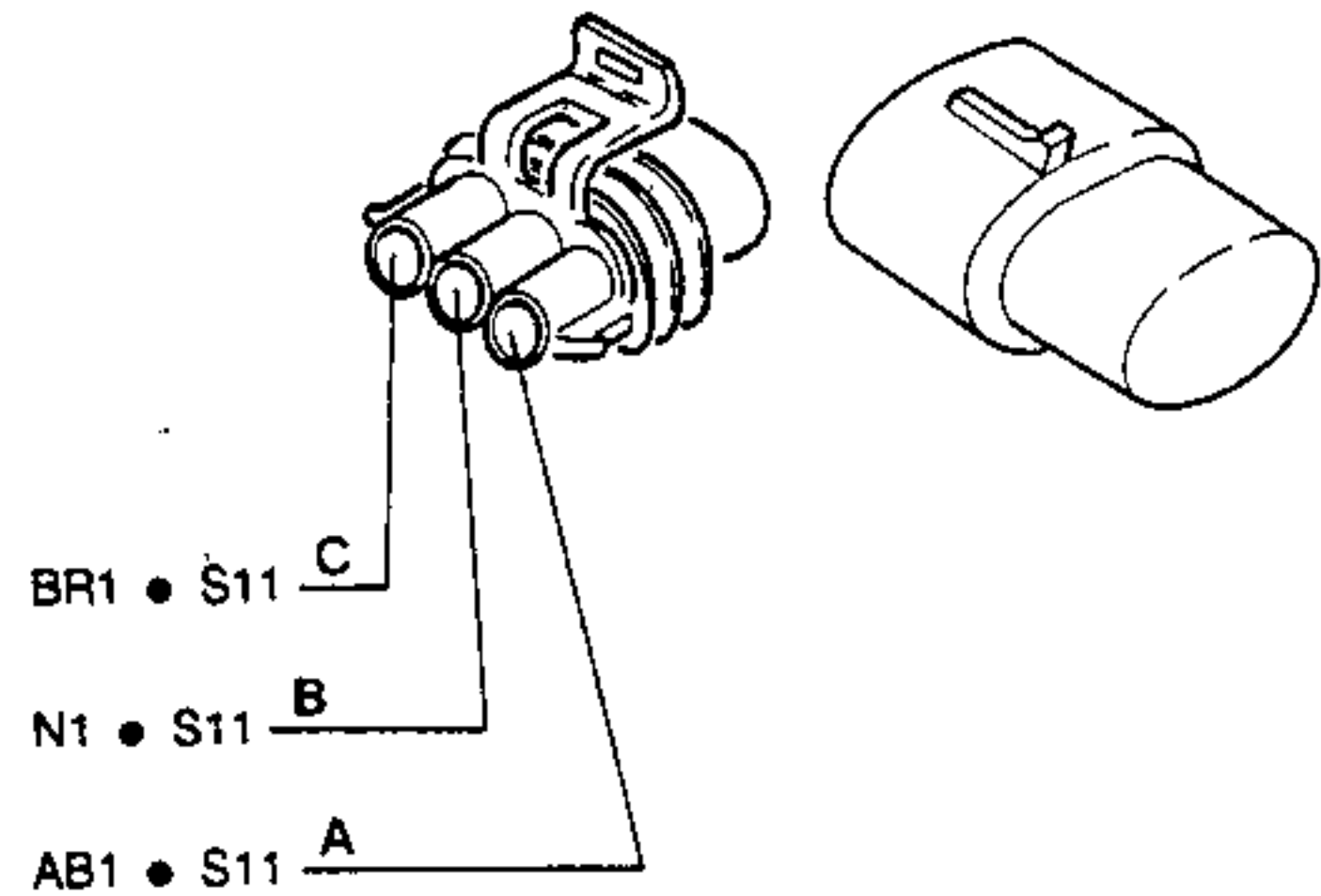
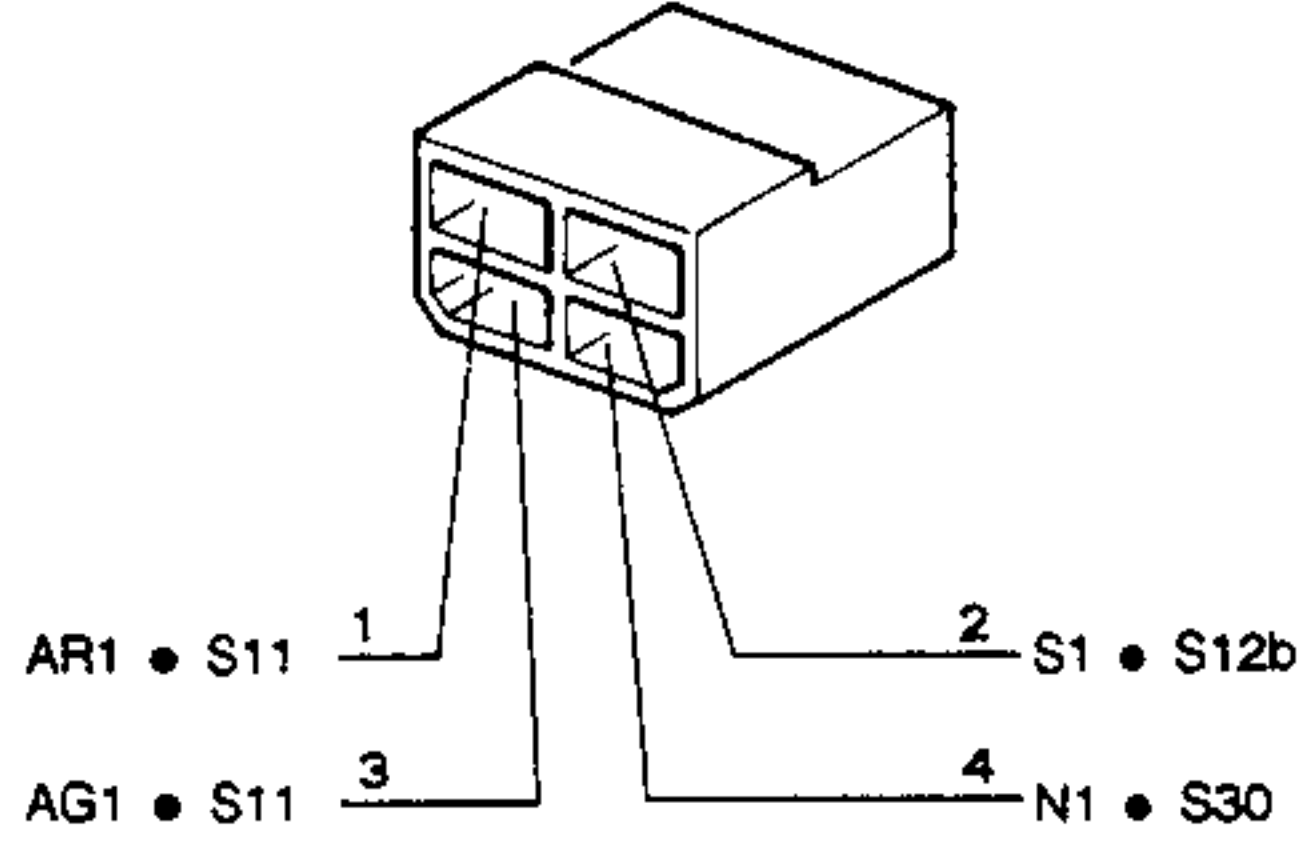
# ELECTRICAL SYSTEM



33.90.053

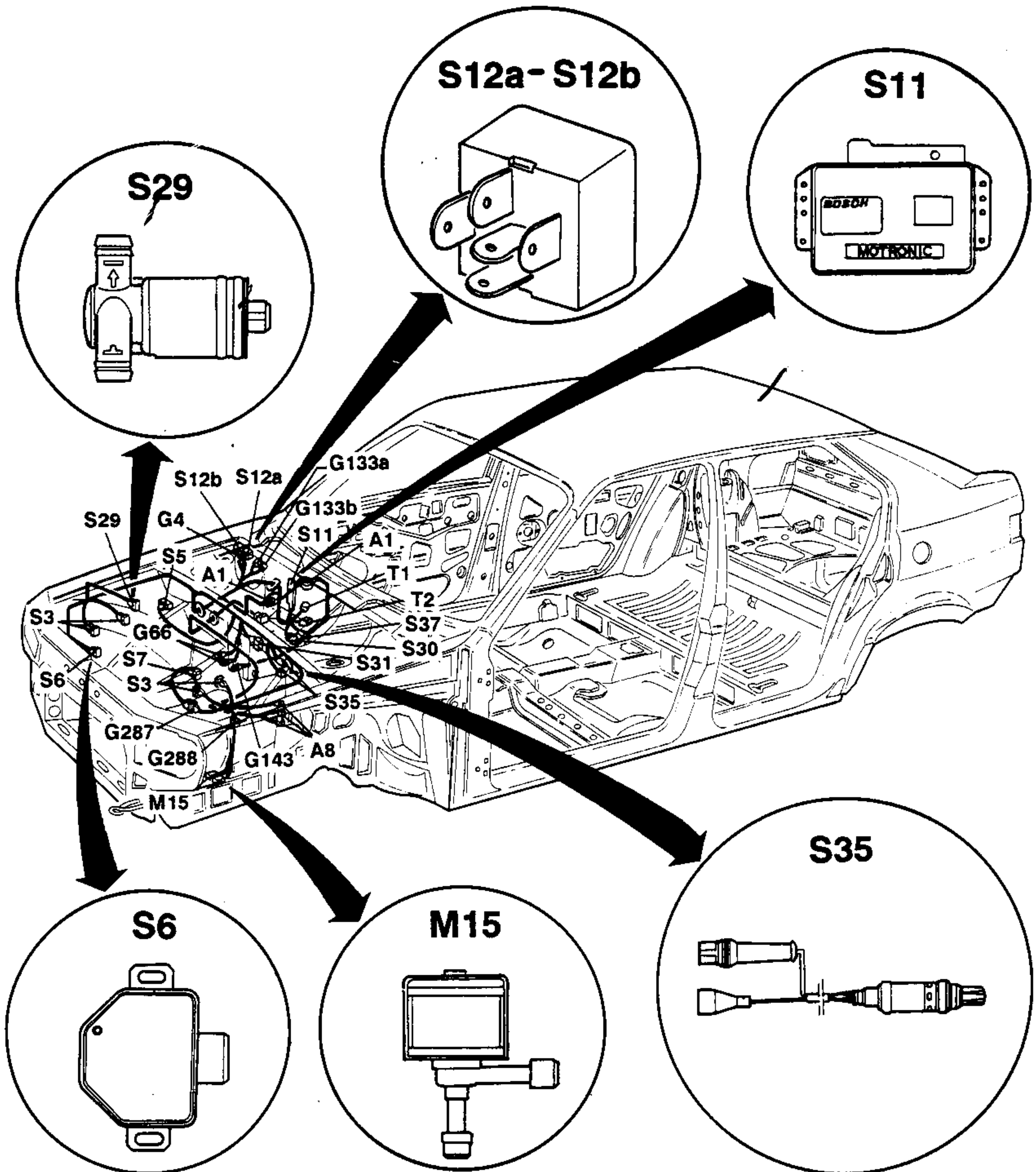


ELECTRICAL SYSTEM

<p>Revolution and timing sensore</p>	<p>S31</p>	<p>4 x 2 / 4 x 4 switching connector</p>	
 <p>G0,8 • S11 N0,8 • S11 Screening</p> <p>33.90.049</p>		 <p>AR1 • S11 1 N1 • G66 2</p> <p>33.90.043</p>	
<p>Connector for Alfa Tester</p>	<p>T1</p>	<p>Connector for diagnostic flashing code</p>	<p>T2</p>
 <p>BR1 • S11 C N1 • S11 B AB1 • S11 A</p> <p>33.90.040 - 33.90.029</p>		 <p>AR1 • S11 1 AG1 • S11 3 S1 • S12b 2 N1 • S30 4</p> <p>33.90.028</p>	

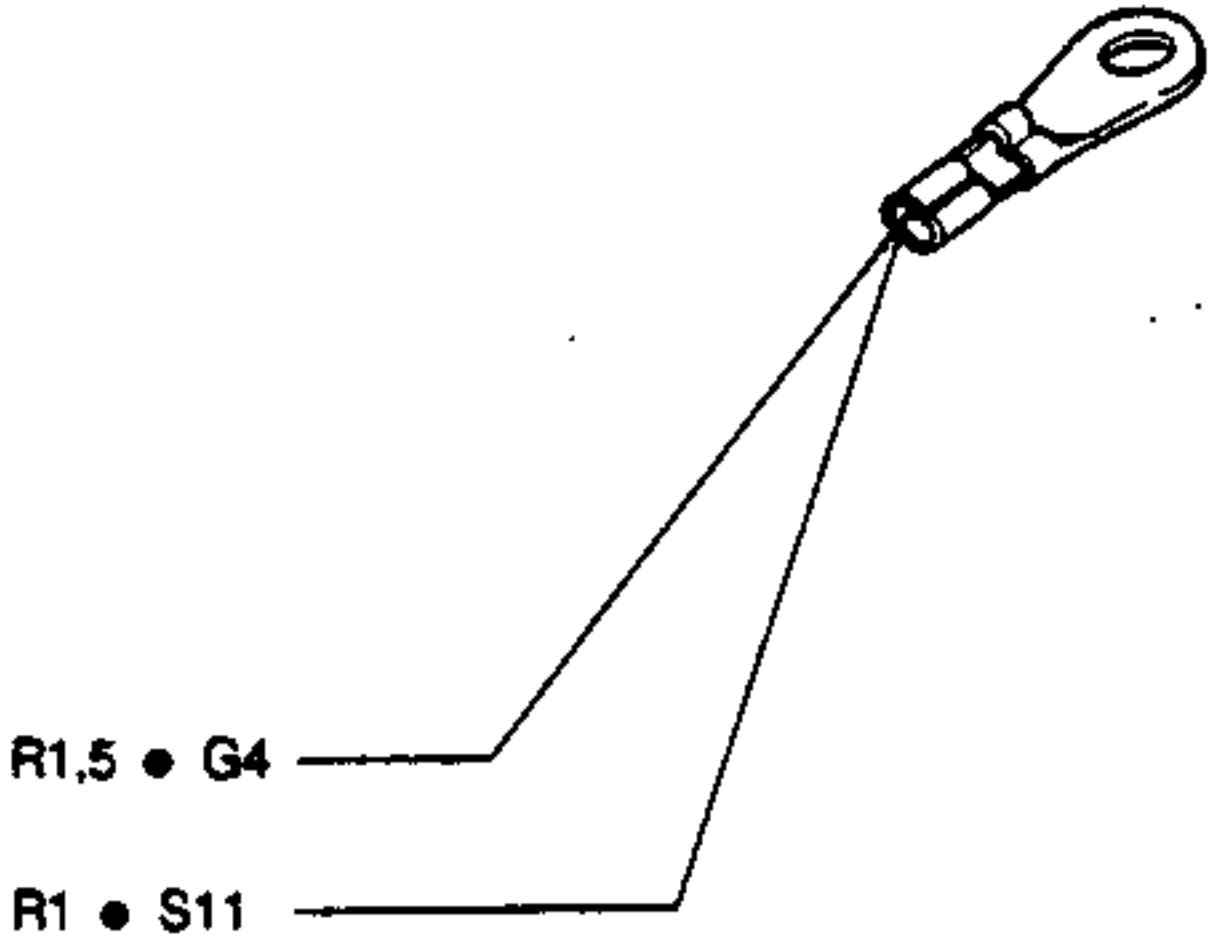
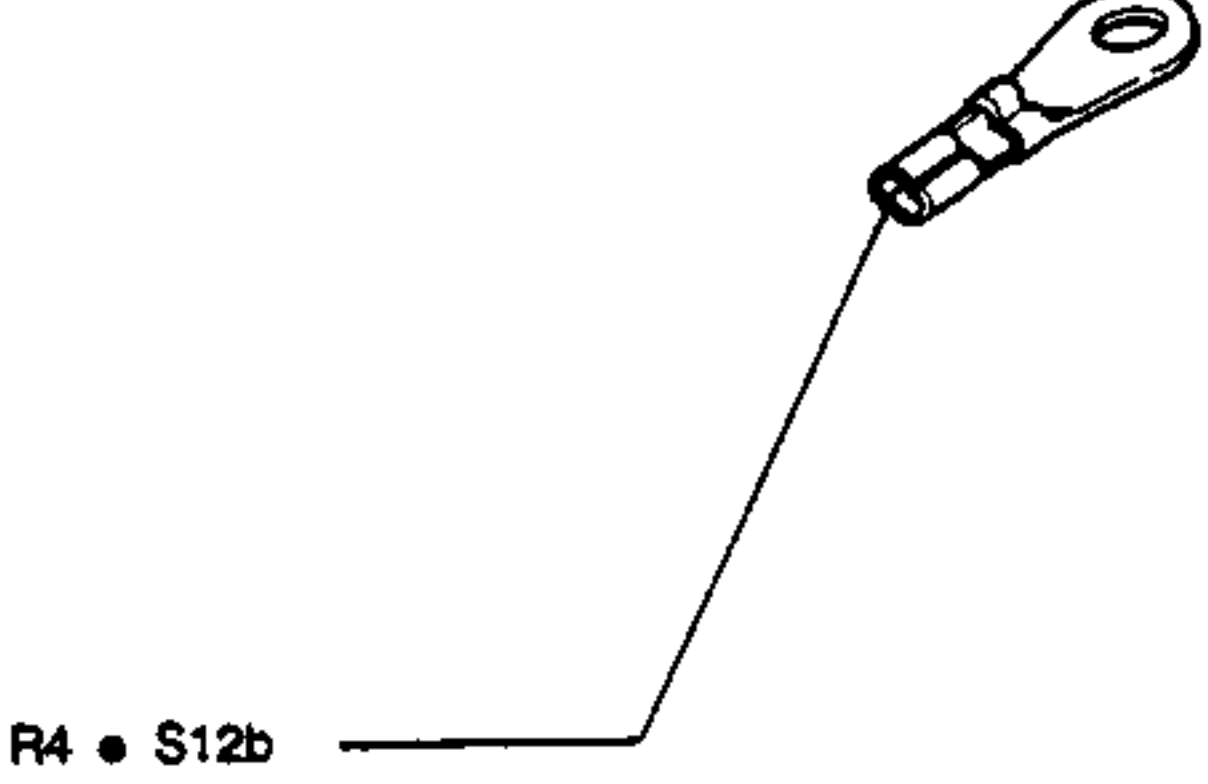
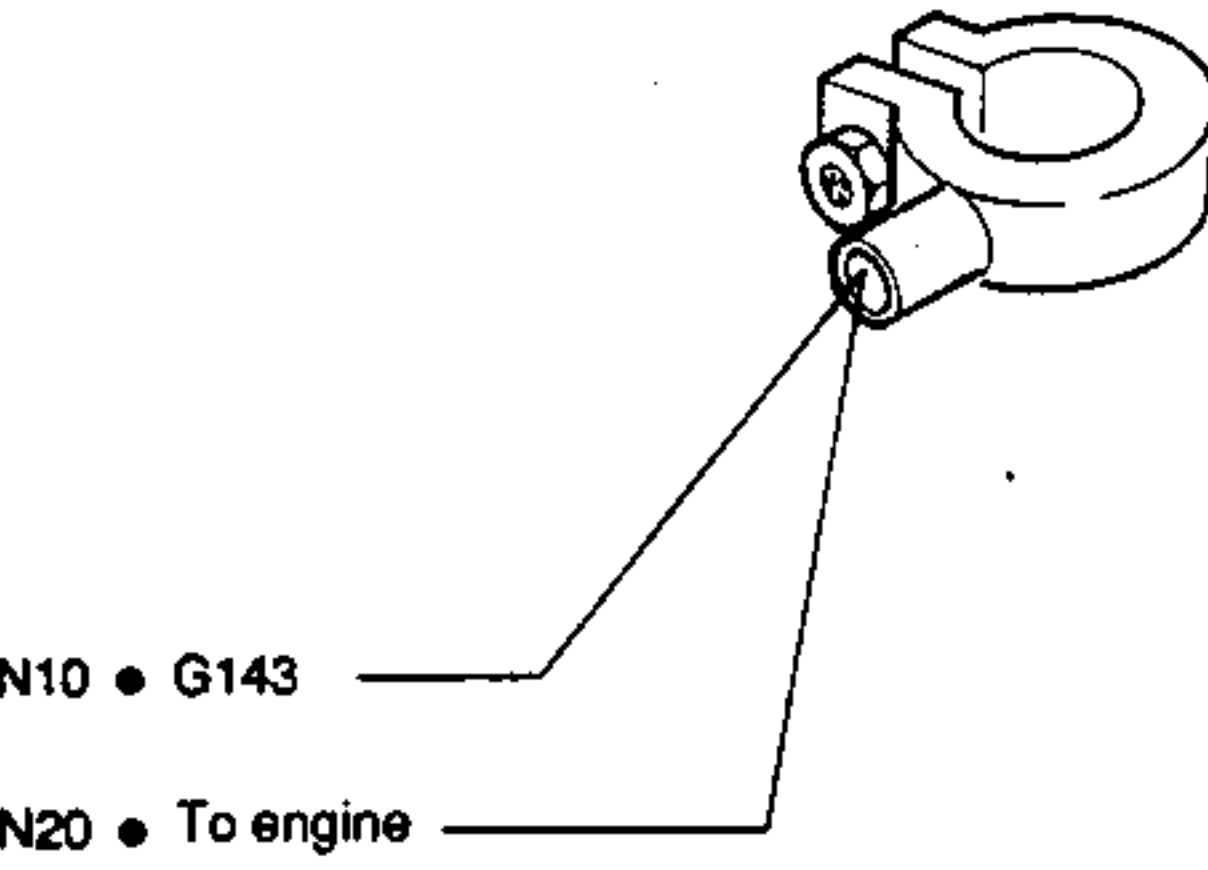
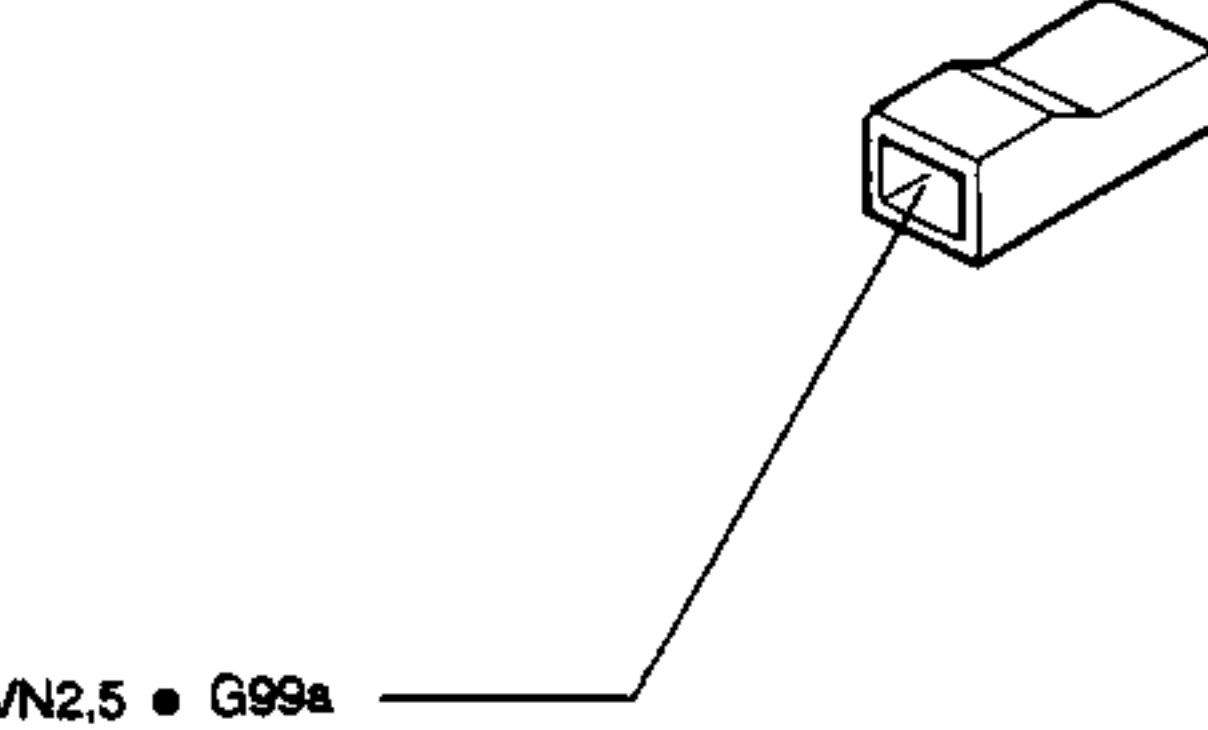
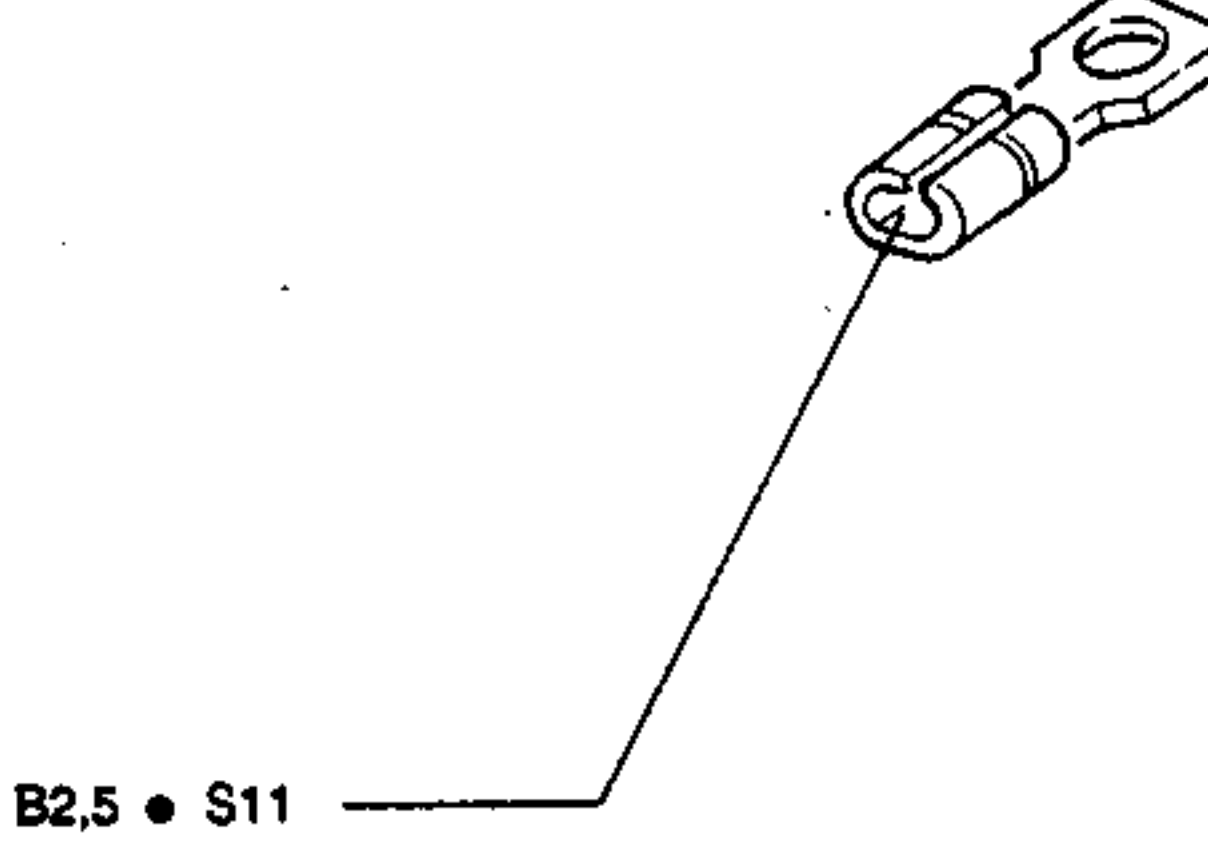
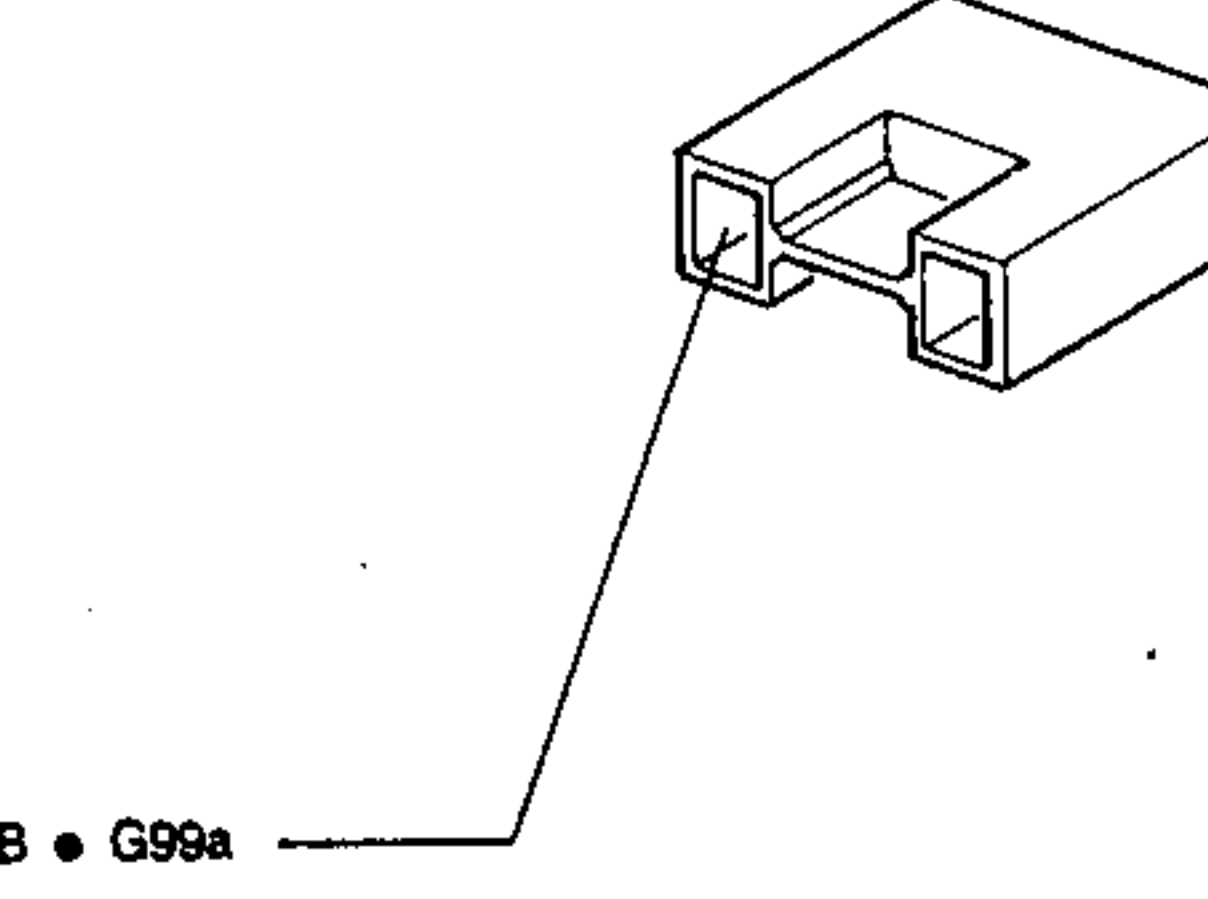


Wiring

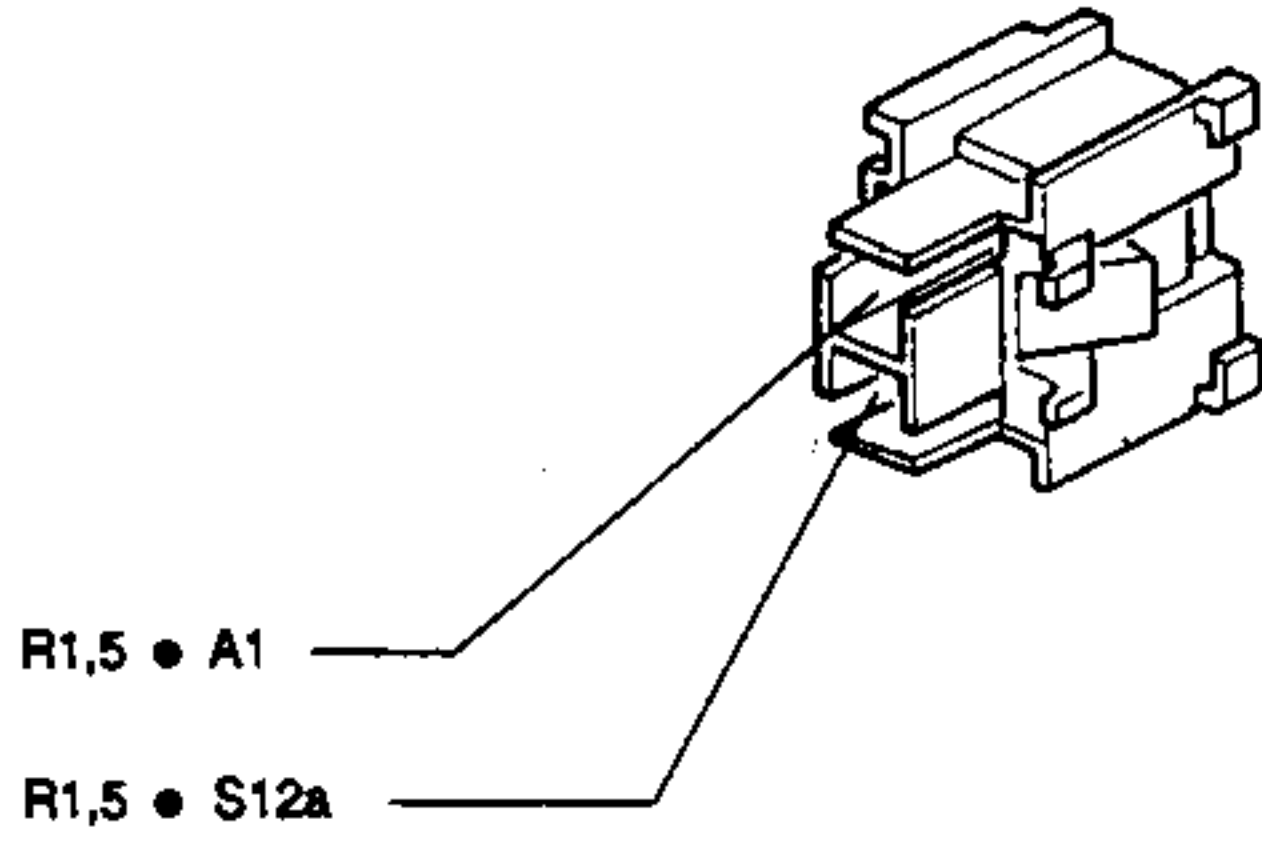
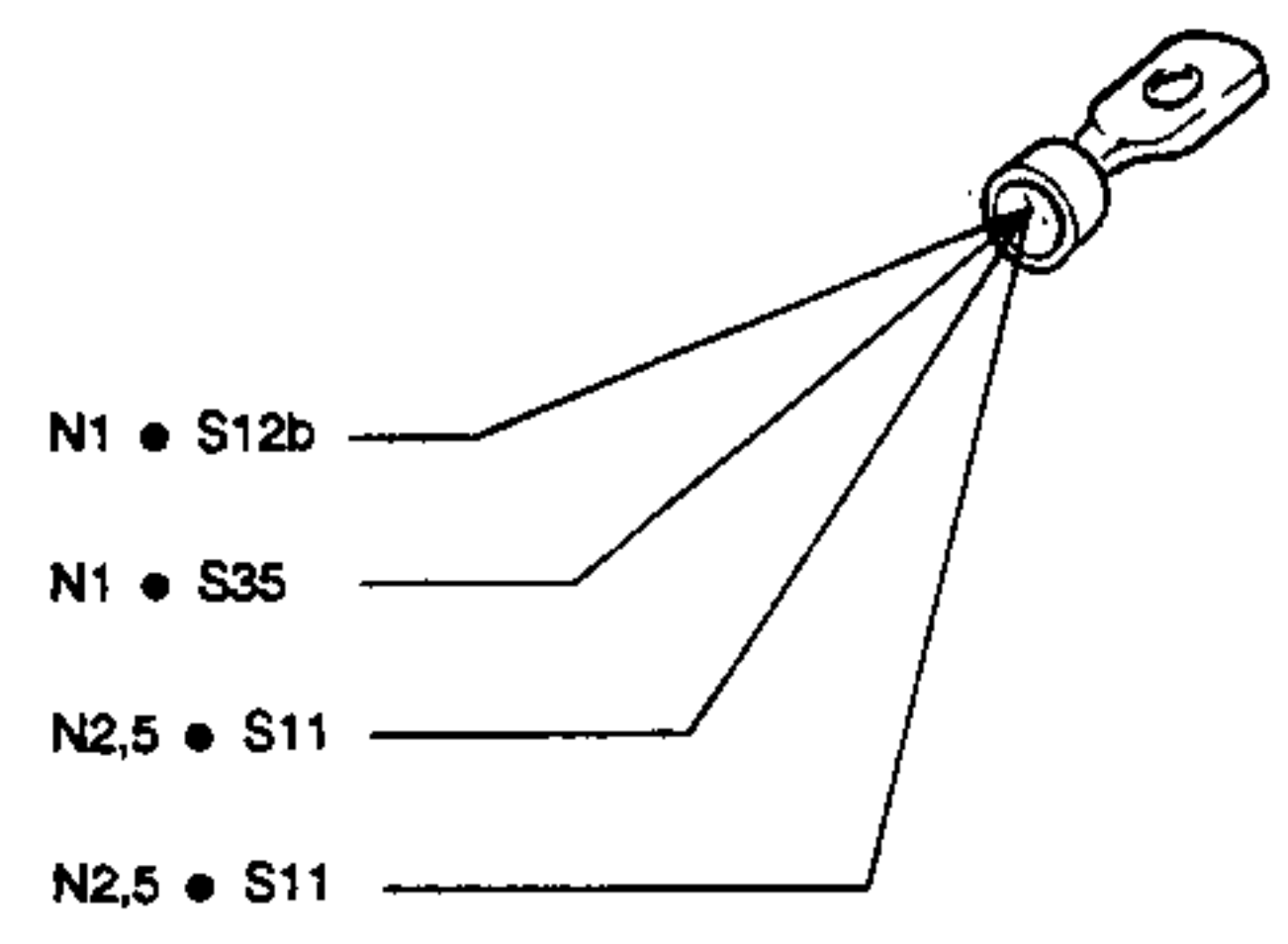
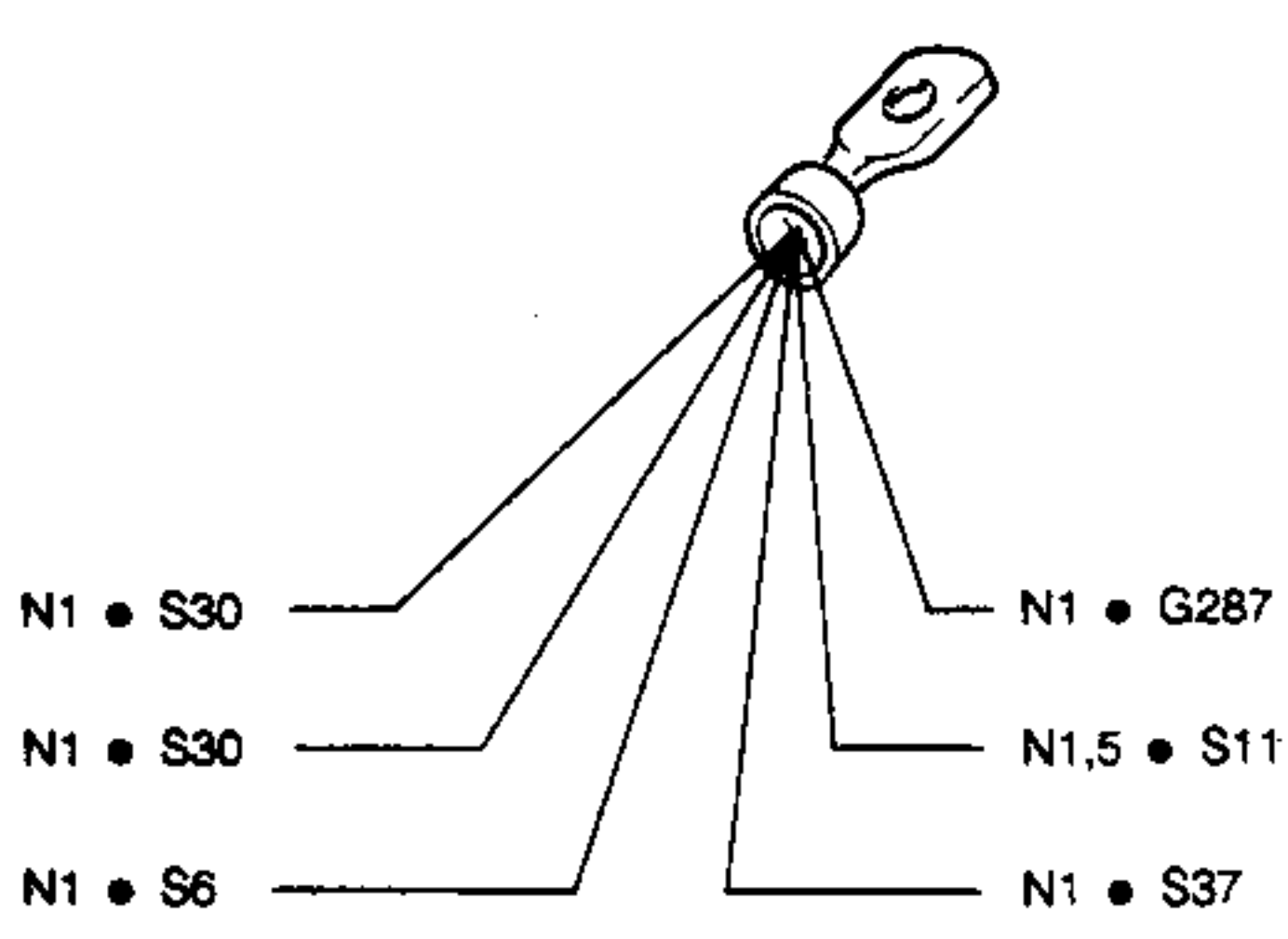
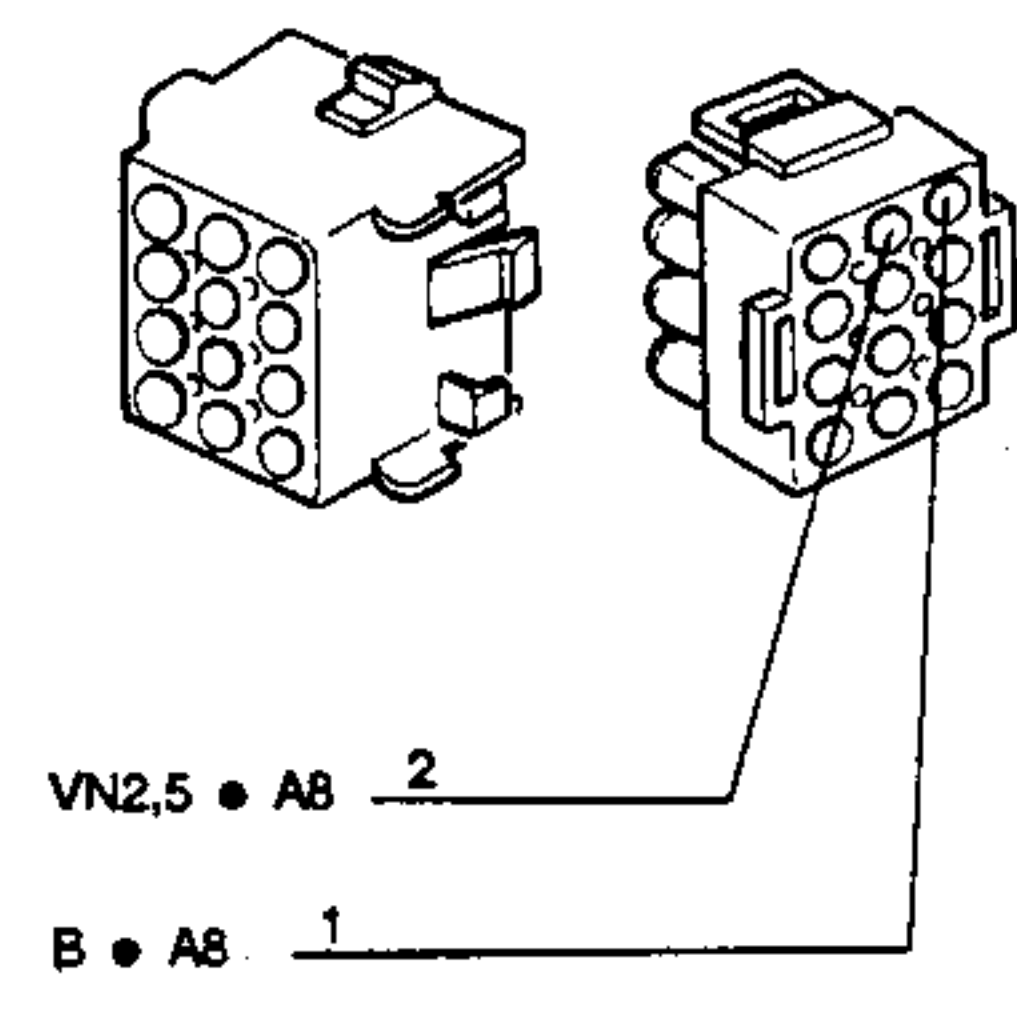
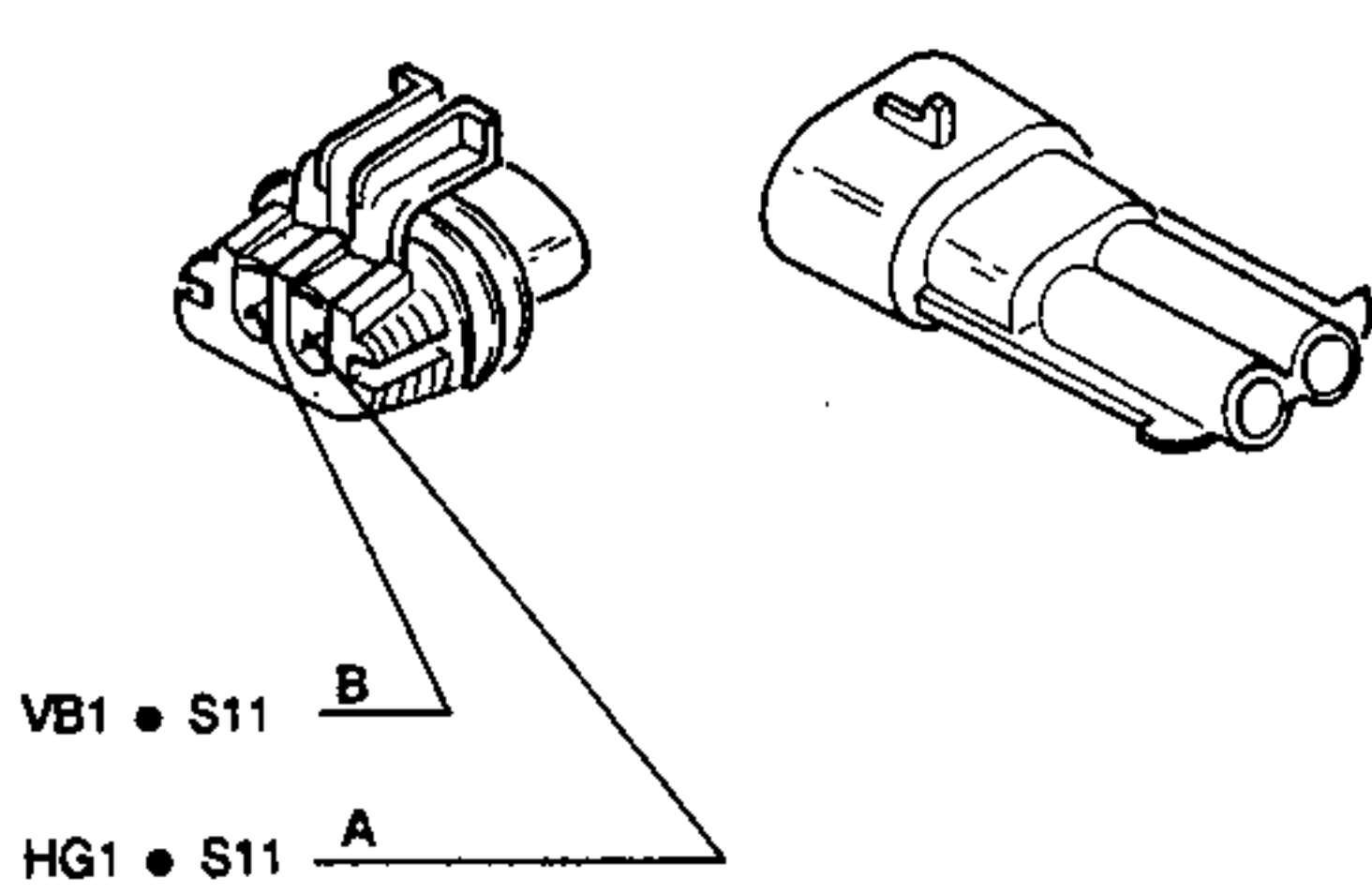
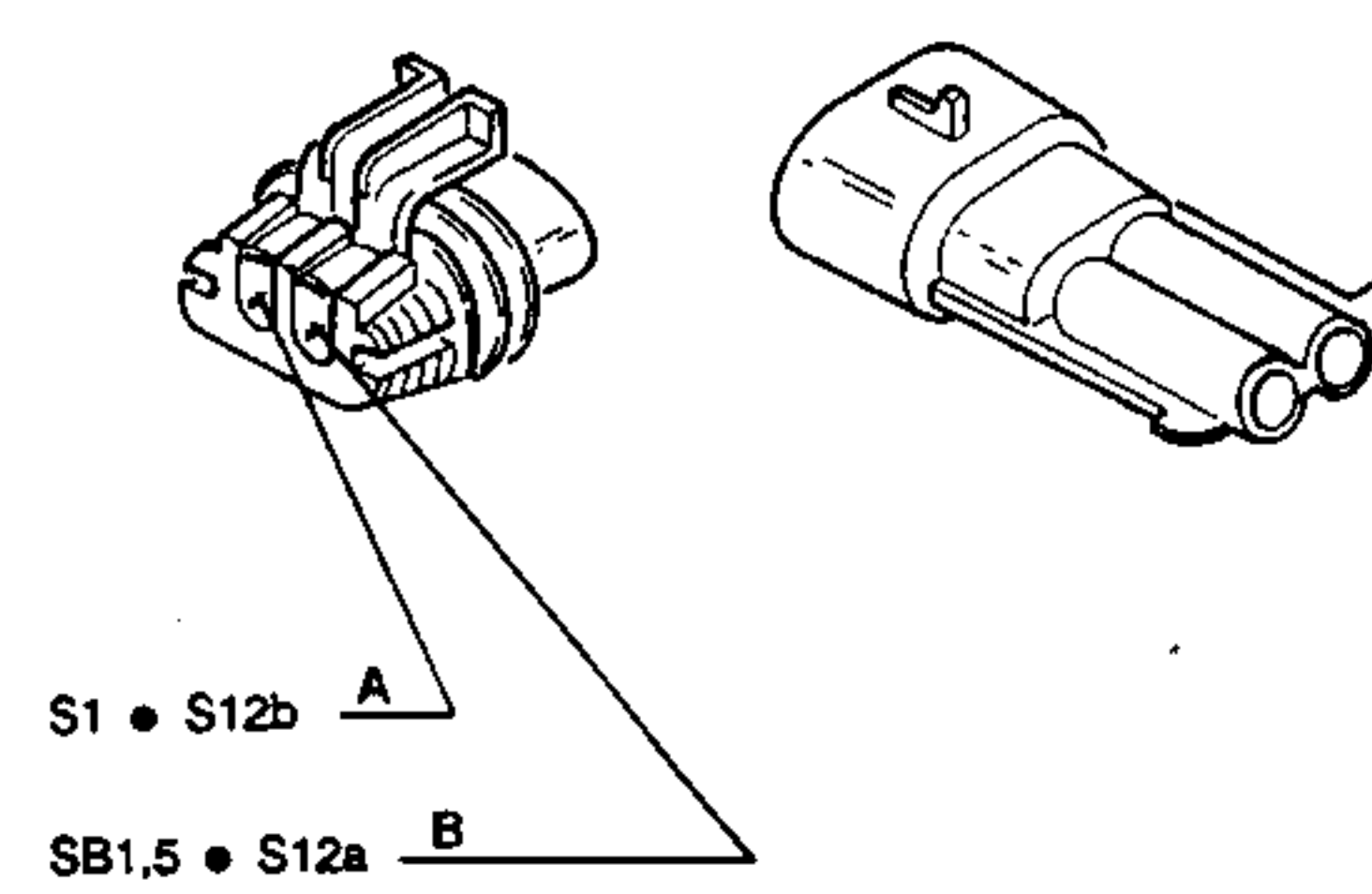


ELECTRICAL SYSTEM

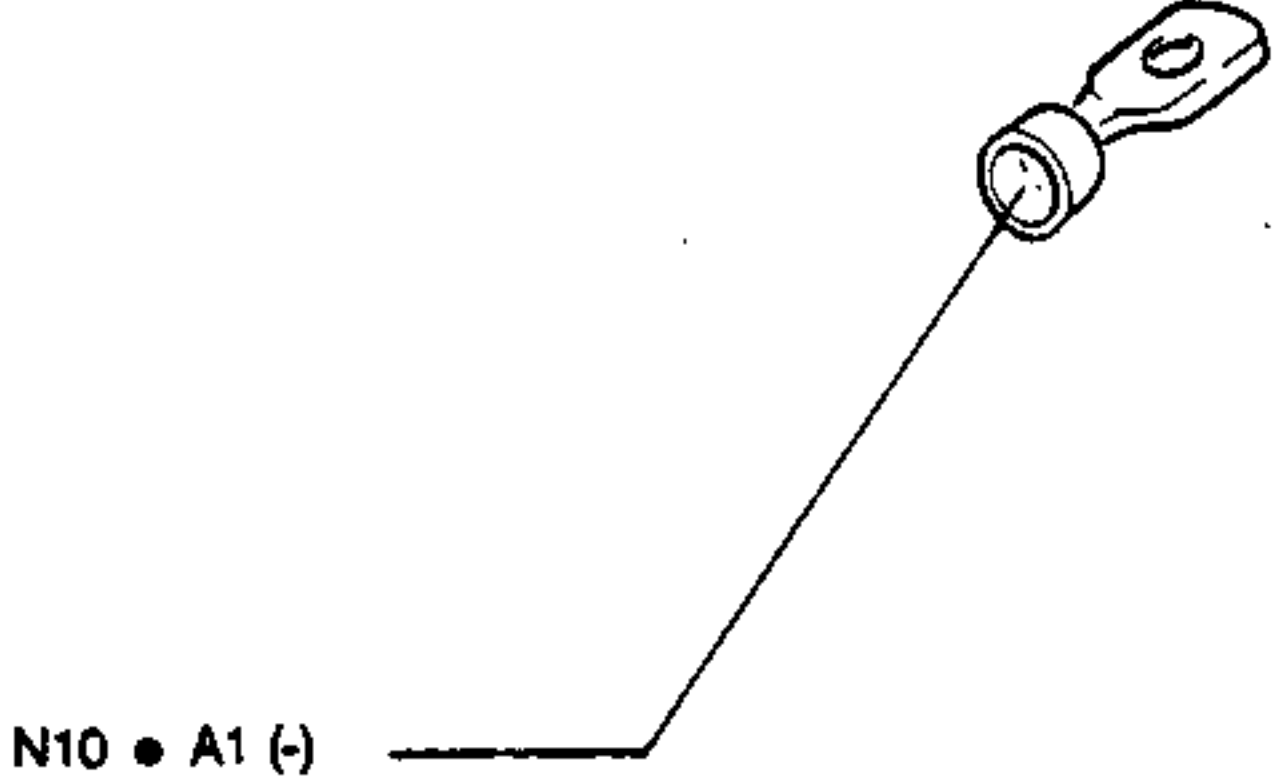
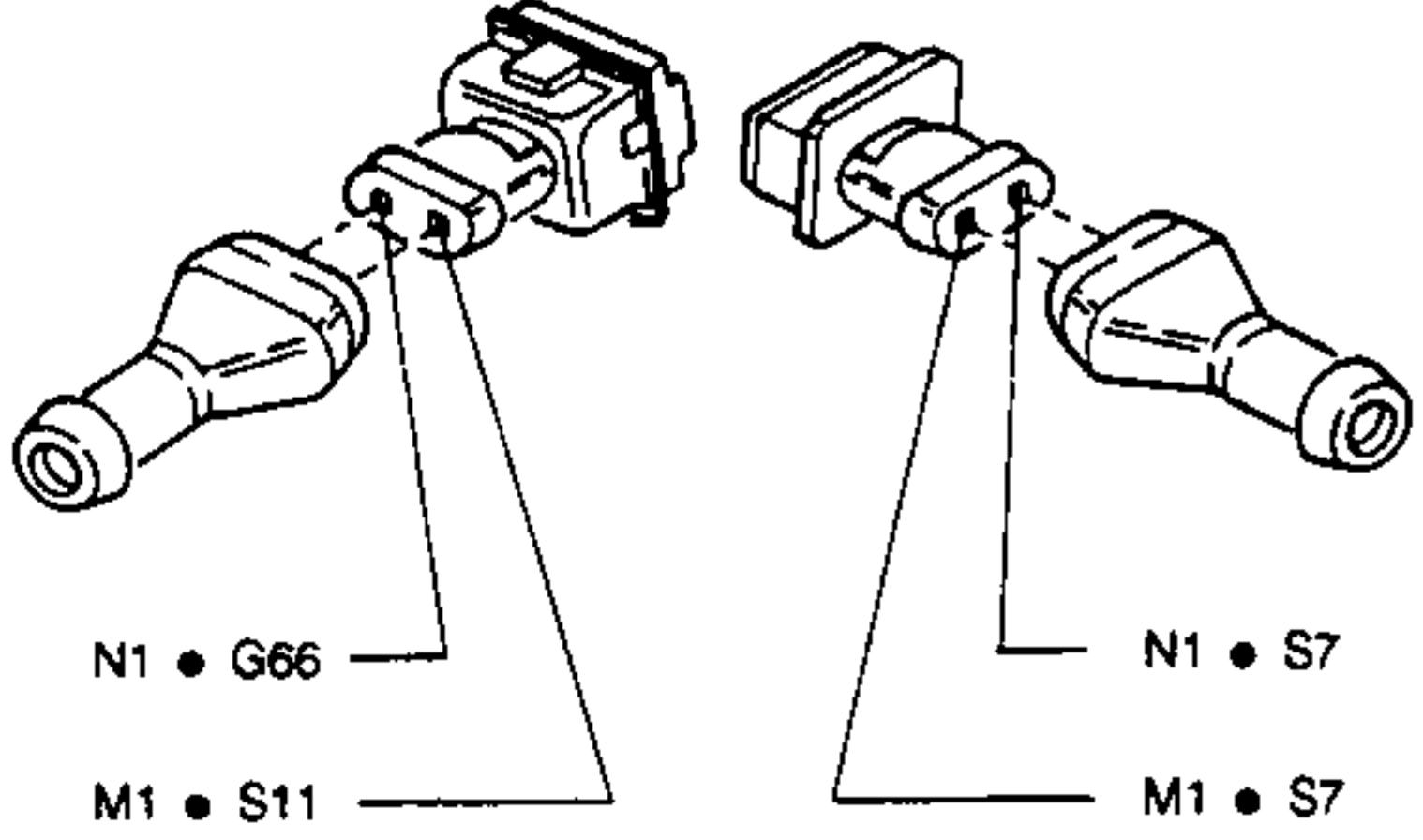
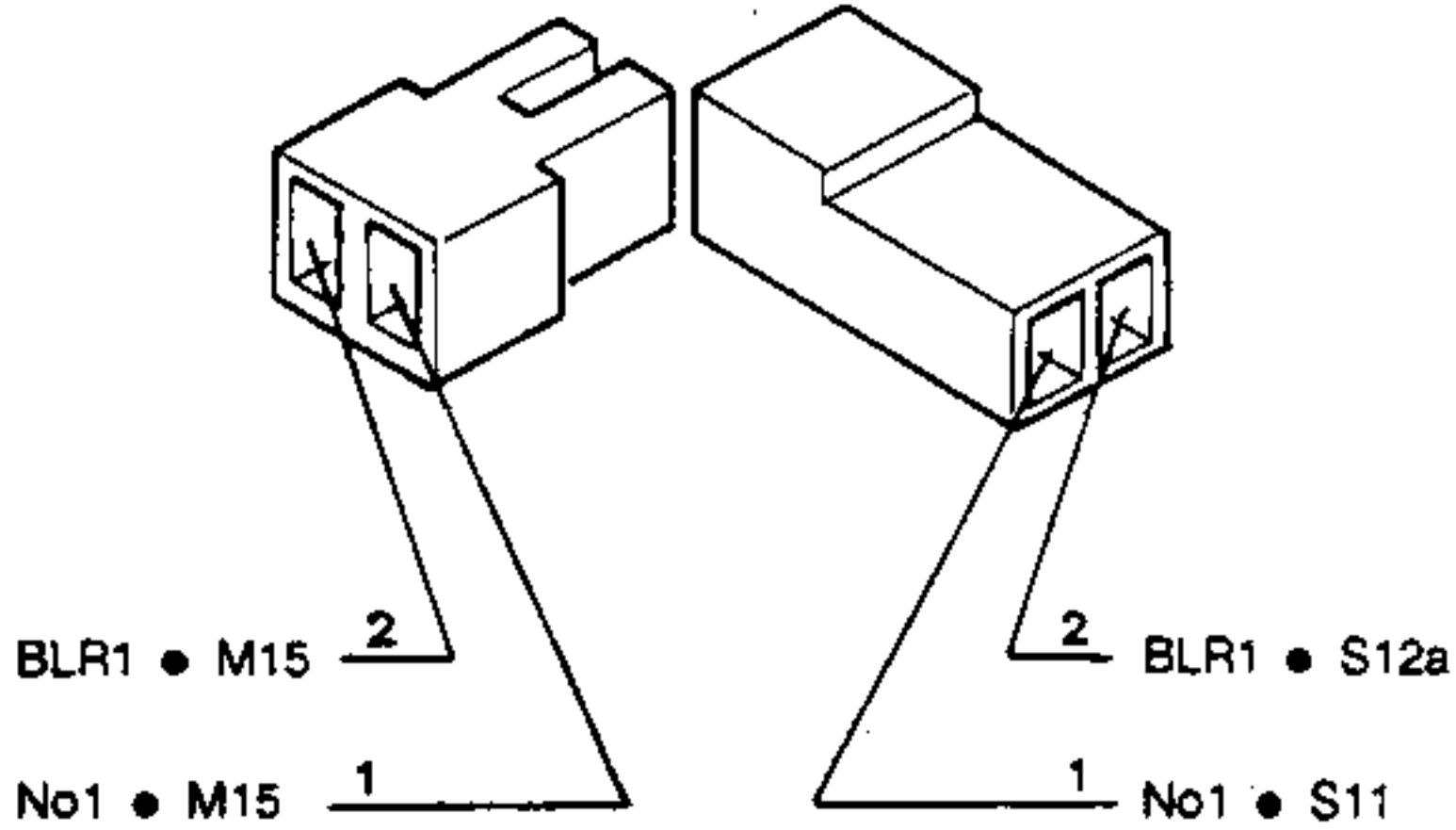
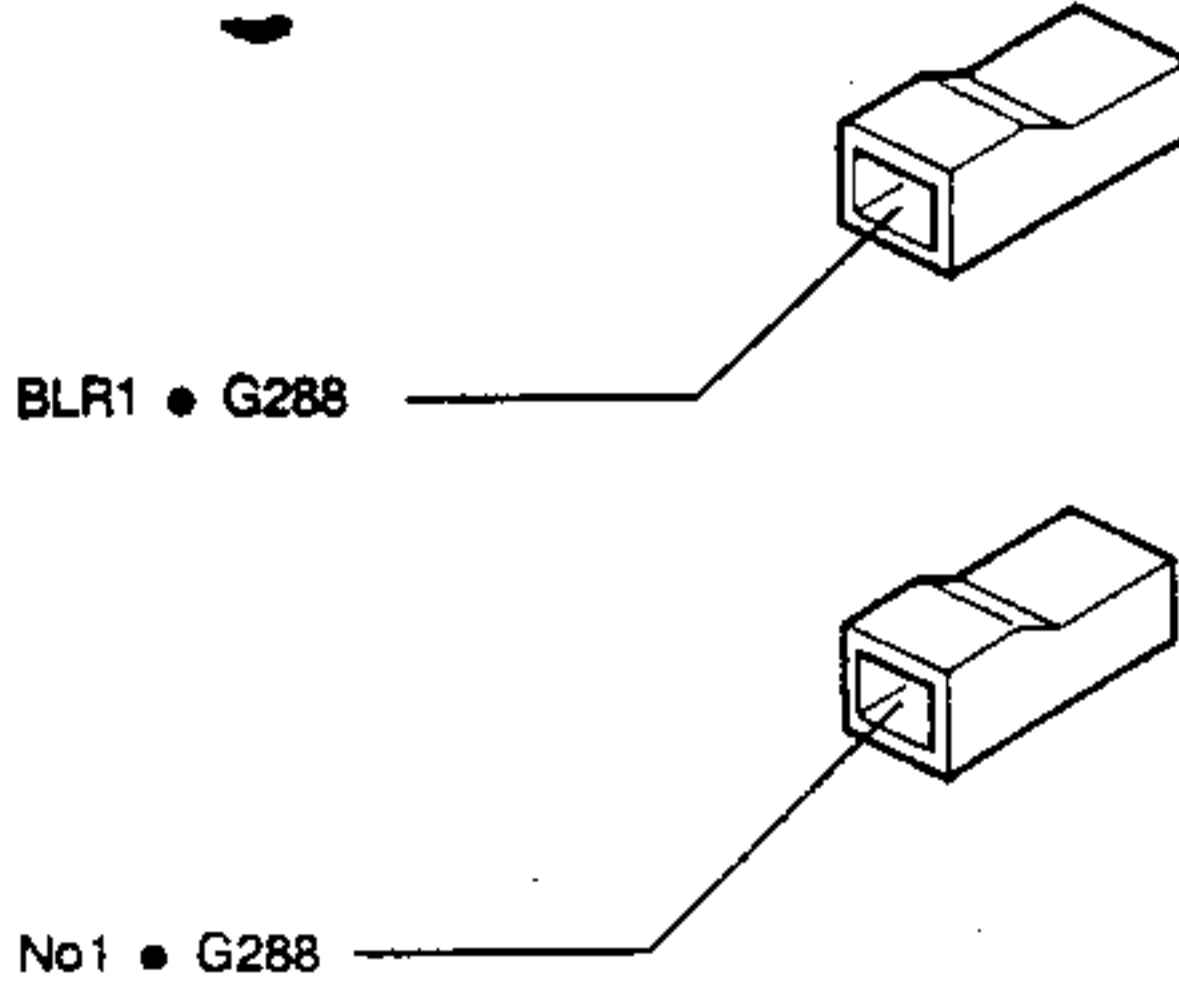
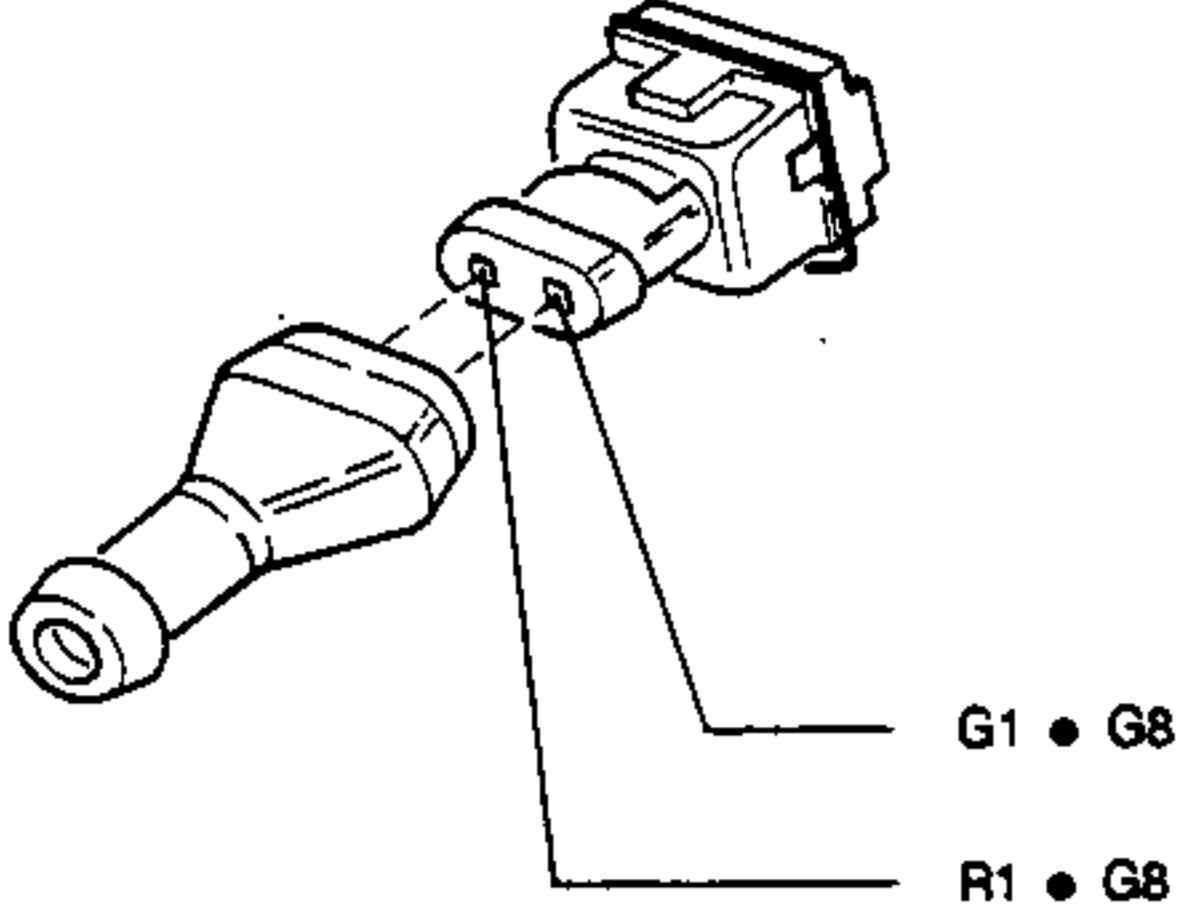
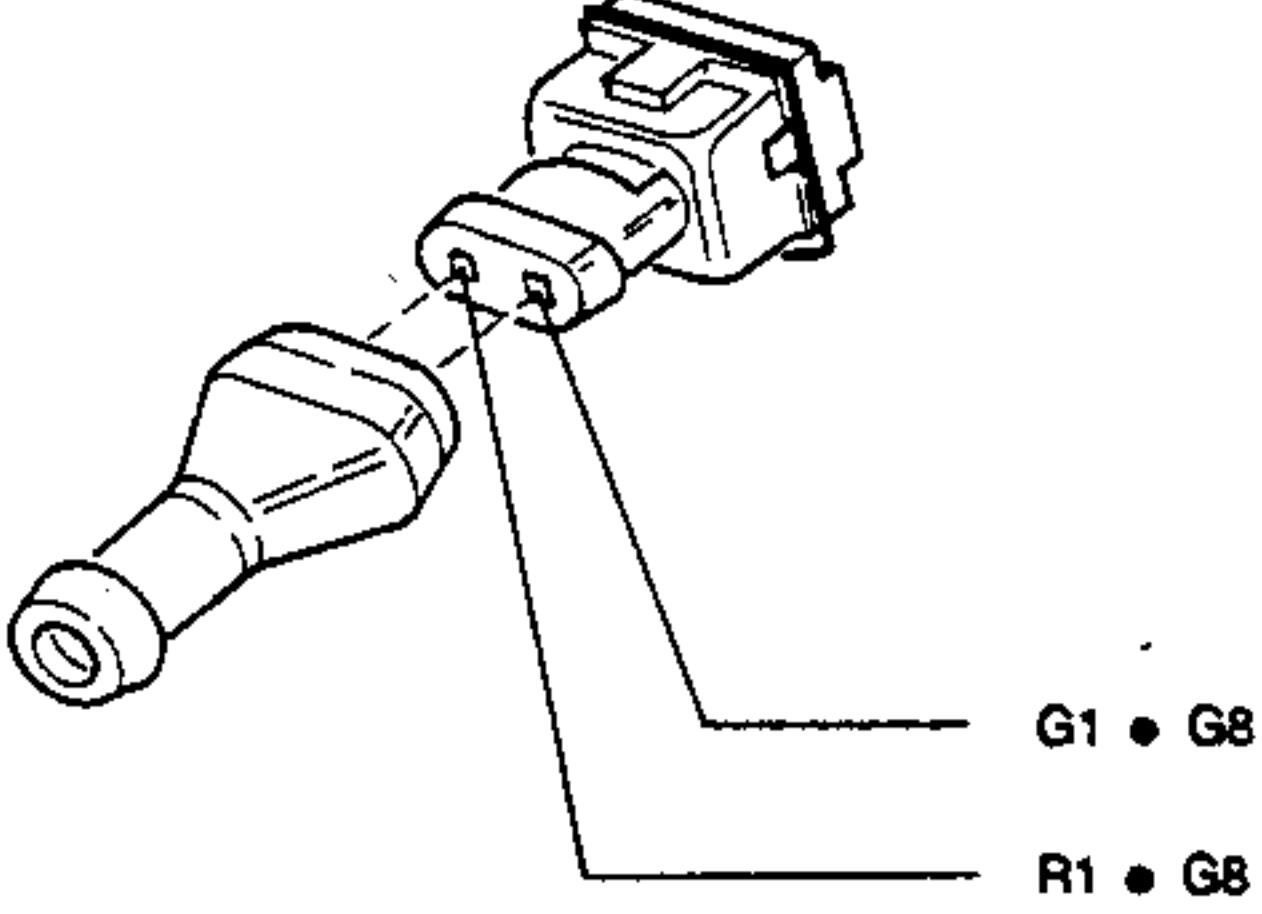
Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (+)</p>	<p>A1</p>
 <p>R1.5 • G4 R1 • S11</p> <p>33.90.014</p>		 <p>R4 • S12b</p> <p>33.90.014</p>	
<p>Battery (-)</p>	<p>A1</p>	<p>Ignition coil (15)</p>	<p>A8</p>
 <p>N10 • G143 N20 • To engine</p> <p>33.90.002</p>		 <p>VN2.5 • G99a</p> <p>33.90.015</p>	
<p>Ignition coil (1)</p>	<p>A8</p>	<p>Ignition coil (1)</p>	<p>A8</p>
 <p>B2.5 • S11</p> <p>33.90.045</p>		 <p>B • G99a</p> <p>33.90.052</p>	

# ELECTRICAL SYSTEM

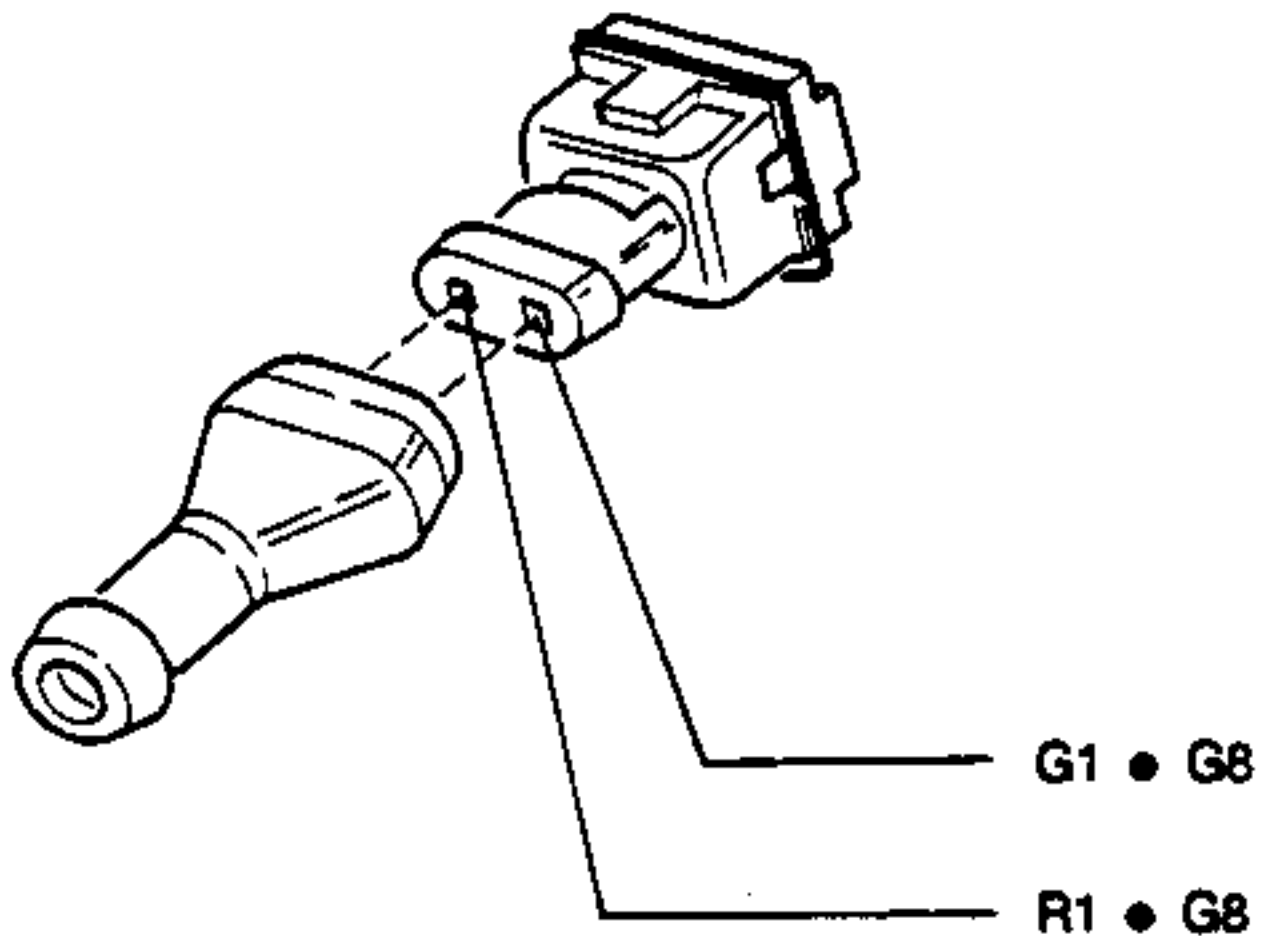
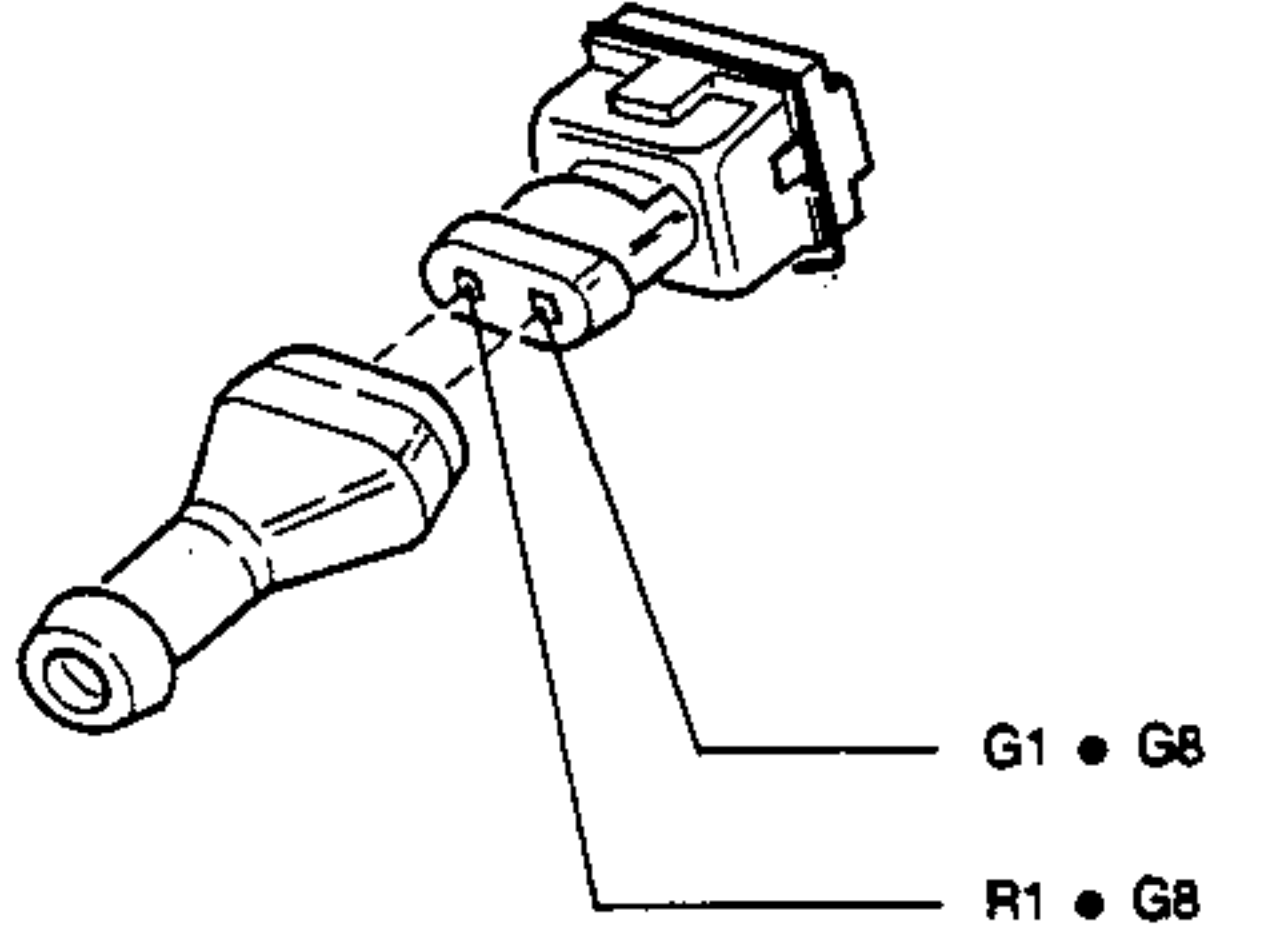
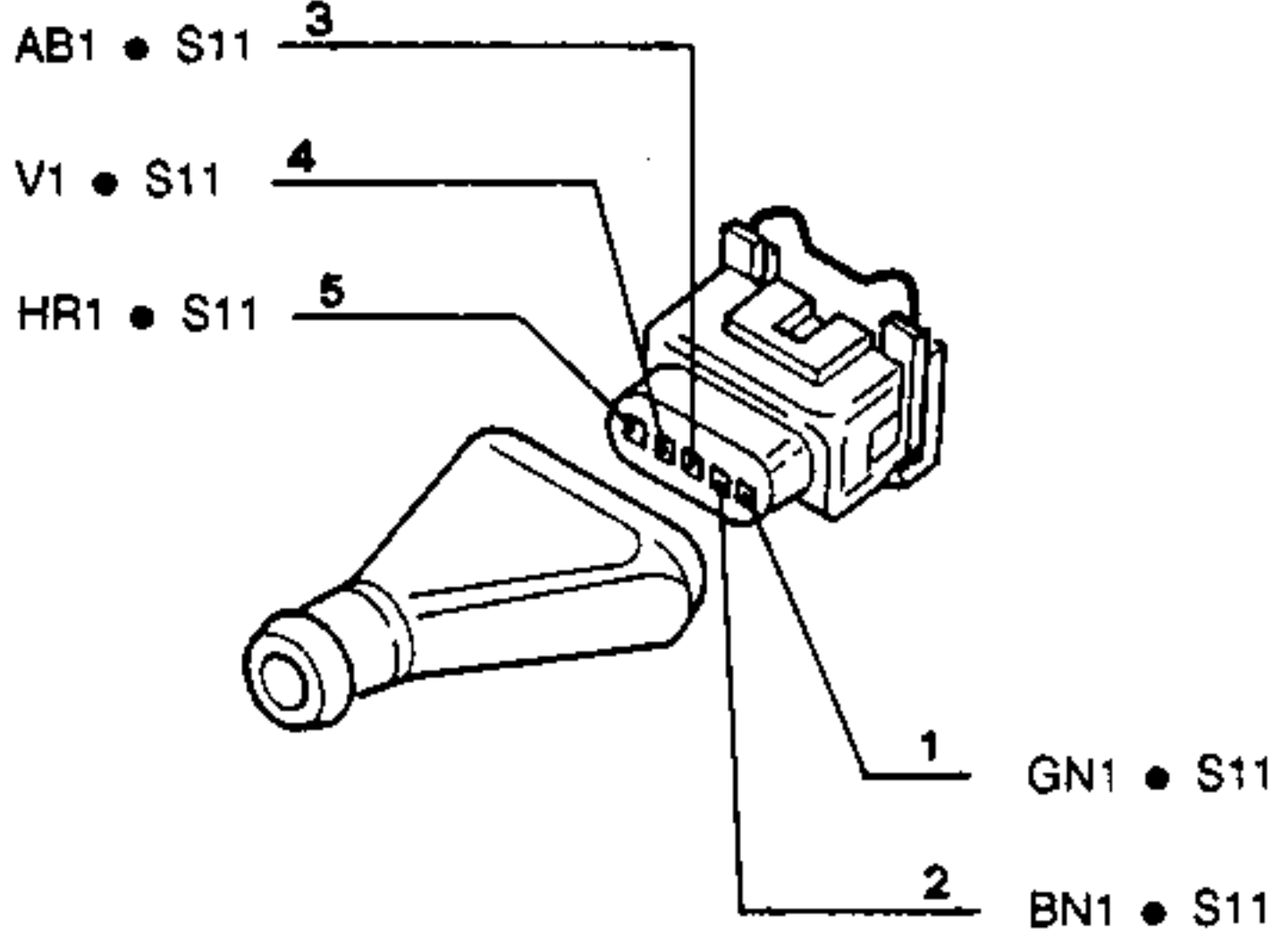
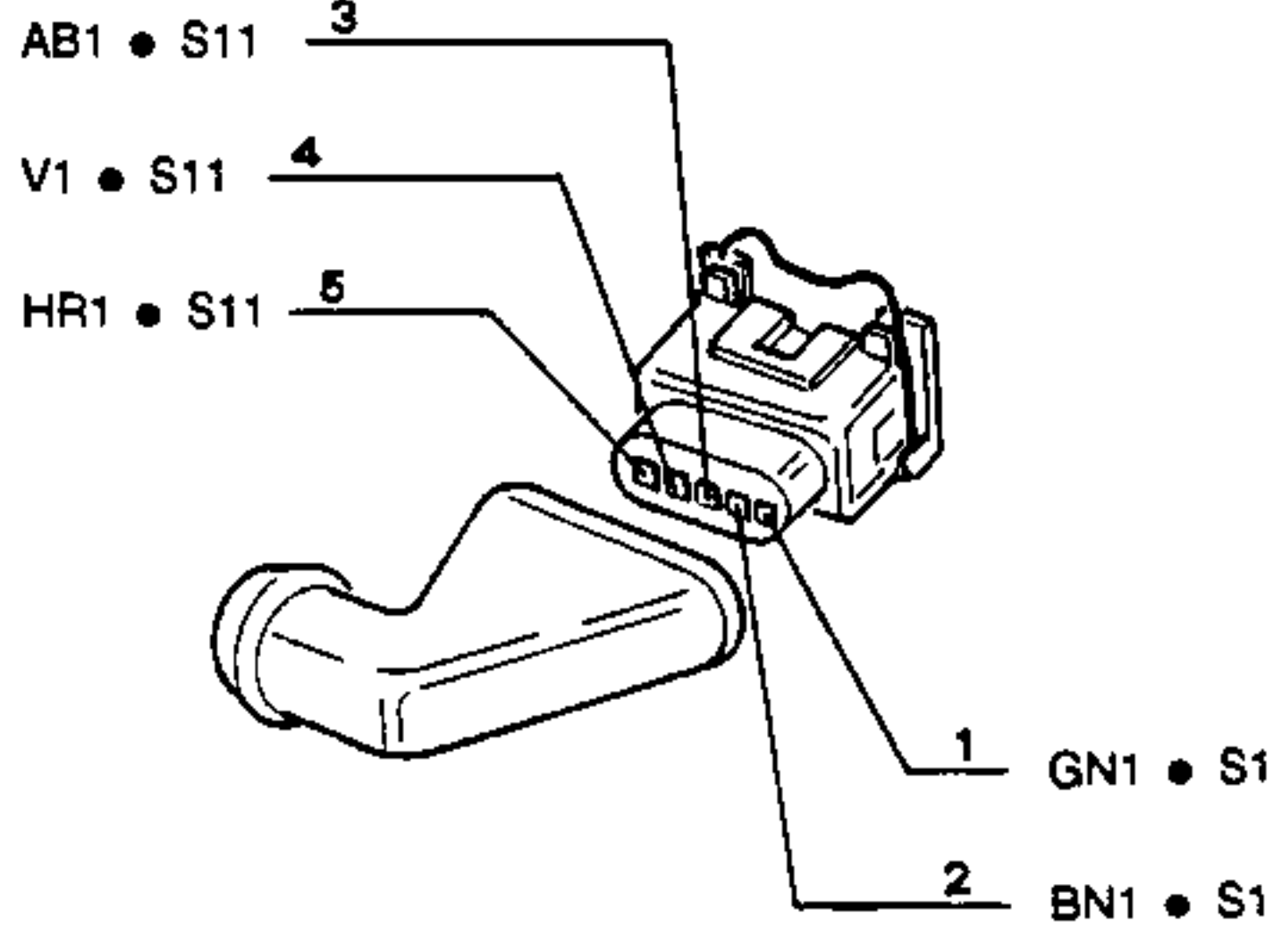
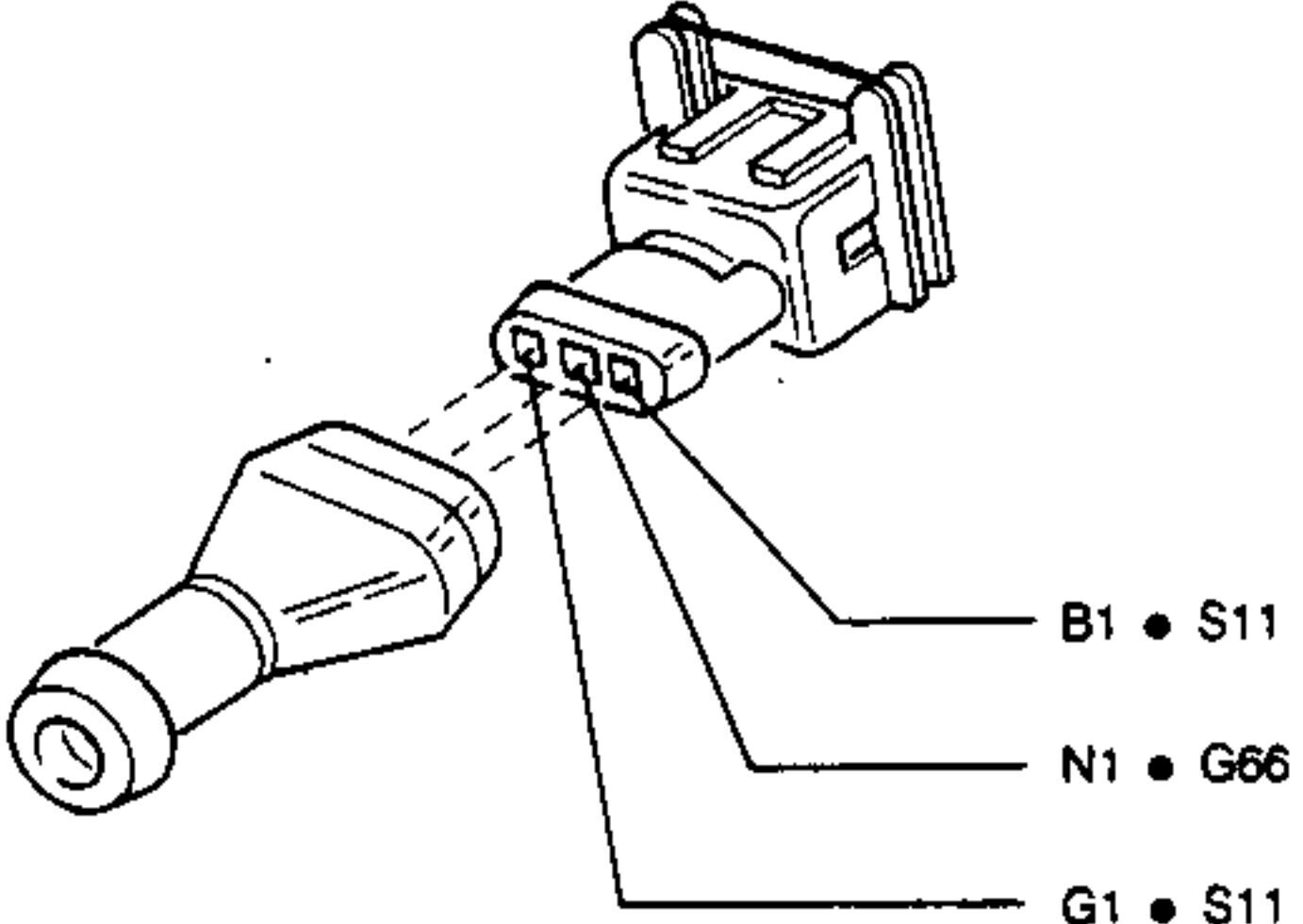
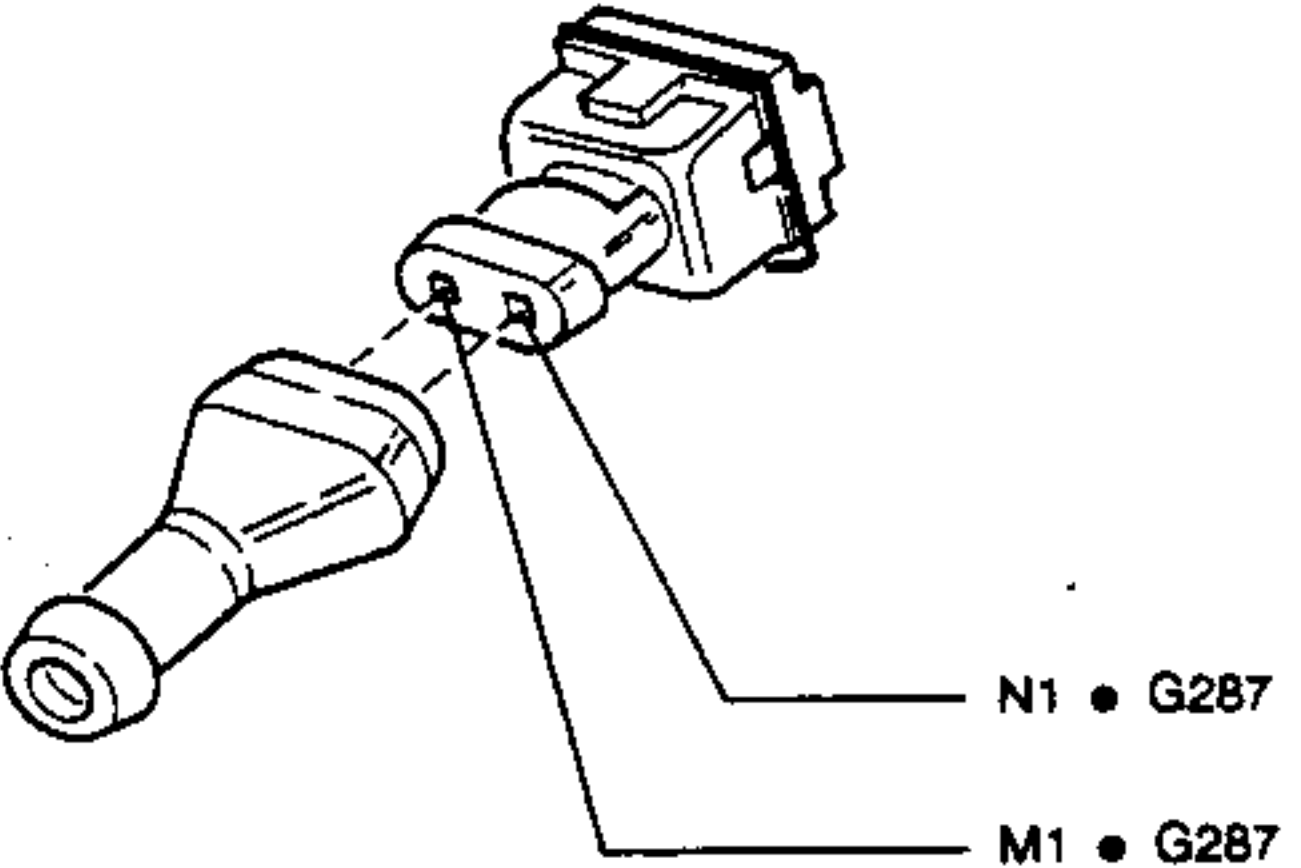
Free Fuse	G4	Motronic wiring earth	G66
 <p>R1,5 • A1</p> <p>R1,5 • S12a</p>	33.90.046	 <p>N1 • S12b</p> <p>N1 • S35</p> <p>N2,5 • S11</p> <p>N2,5 • S11</p>	33.90.001
Motronic wiring earth	G66	Connector for engine dashboard A	G99a
 <p>N1 • S30</p> <p>N1 • S30</p> <p>N1 • S6</p> <p>N1 • G287</p> <p>N1,5 • S11</p> <p>N1 • S37</p>	33.90.001	 <p>VN2,5 • A8 2</p> <p>B • A8 1</p>	33.90.016
Ignition - electronic injection A wiring connection	G133a	Ignition - electronic injection B wiring connection	G133b
 <p>VB1 • S11 B</p> <p>HG1 • S11 A</p>	33.90.055	 <p>S1 • S12b A</p> <p>SB1,5 • S12a B</p>	33.90.055

**ELECTRICAL SYSTEM**

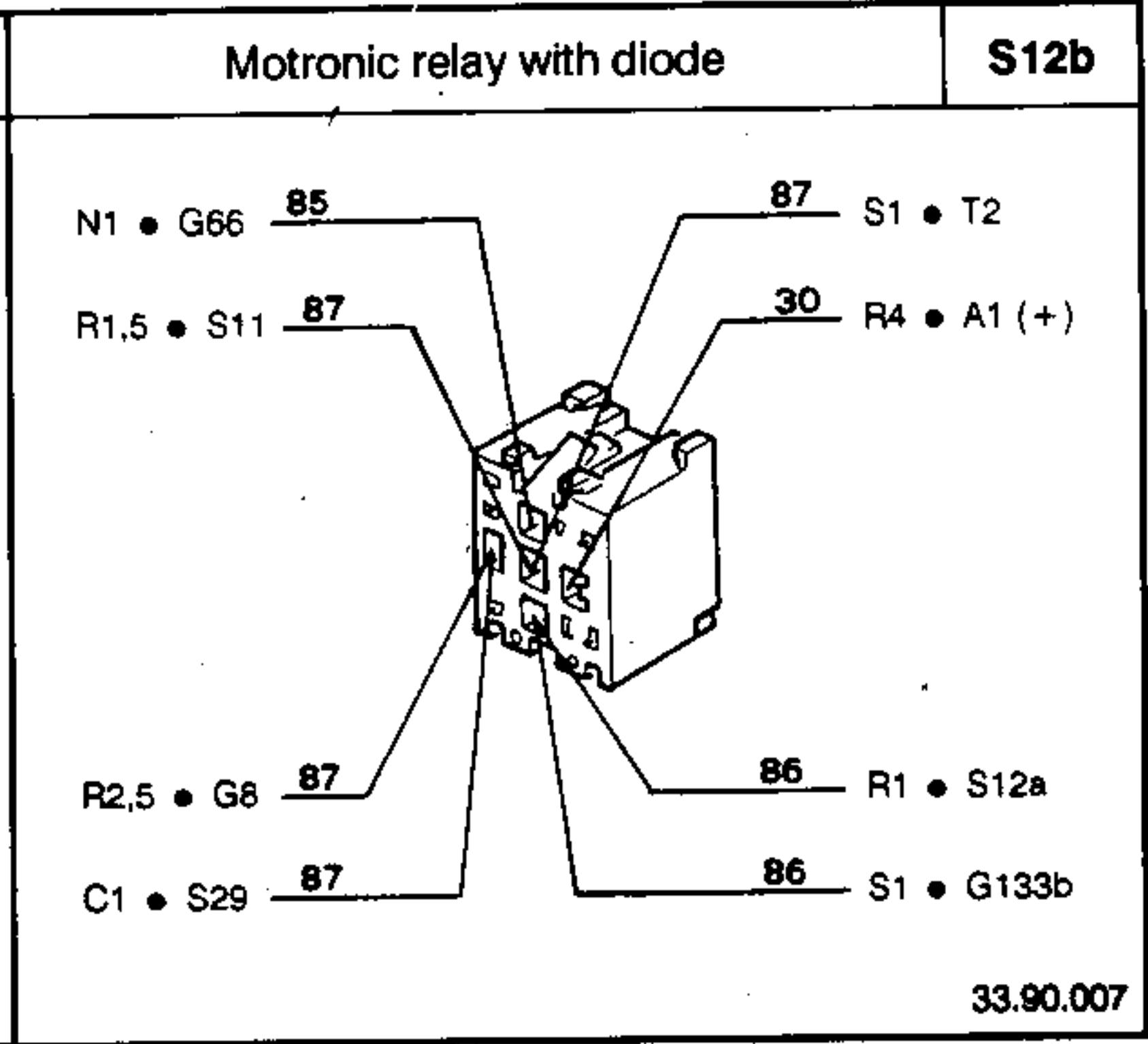
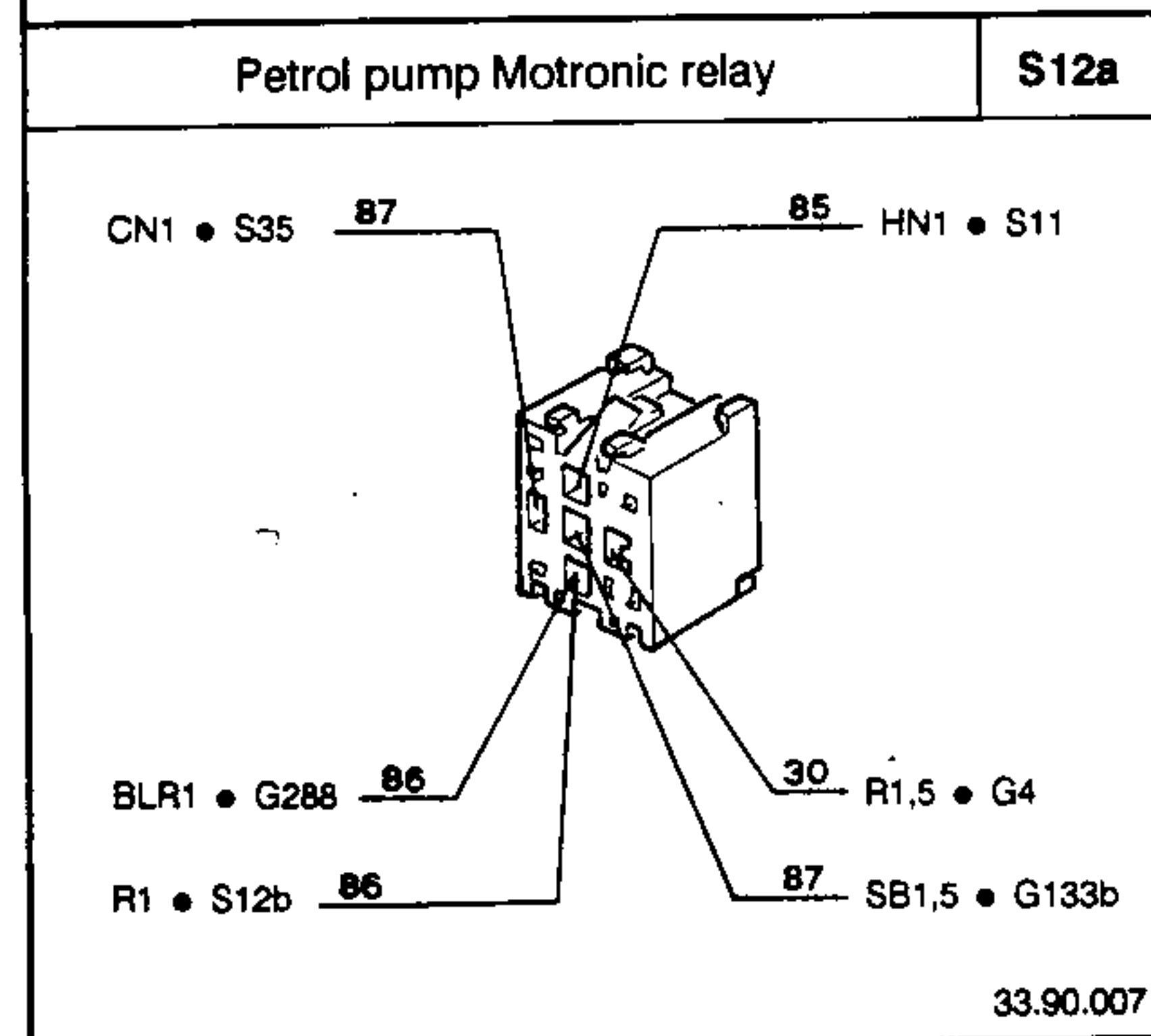
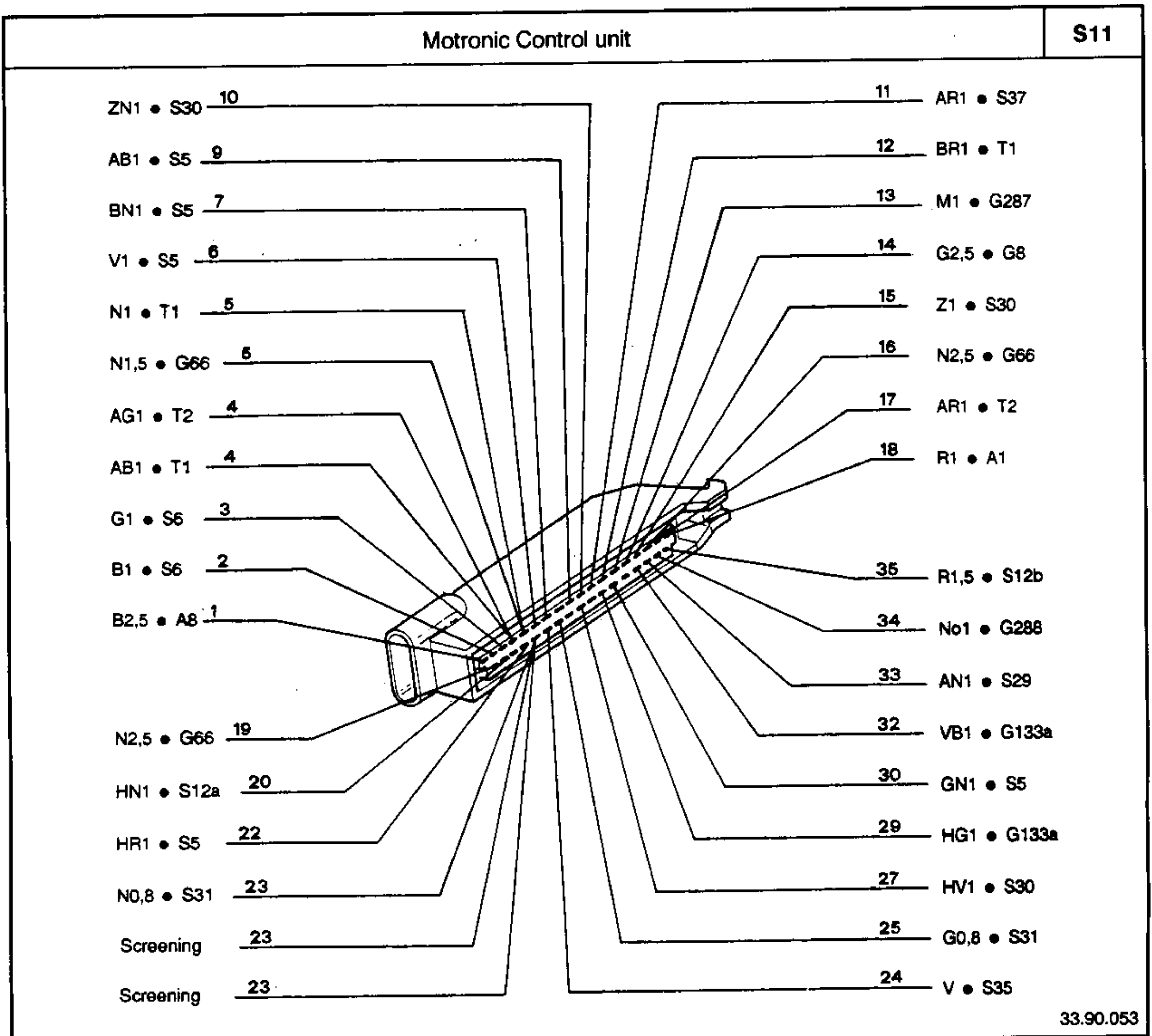
<p align="center">Central service compartment earth</p>	<p align="center"><b>G143</b></p>	<p align="center">Injection wiring - engine coolant temperature sensor wiring connection</p>	<p align="center"><b>G287</b></p>
 <p>N10 • A1 (-)</p> <p align="right">33.90.001</p>		 <p>N1 • G66 M1 • S11</p> <p>N1 • S7 M1 • S7</p> <p align="right">33.90.077</p>	
<p align="center">Injection wiring evaporation solenoid valve wiring connection</p>	<p align="center"><b>G288</b></p>	<p align="center">Evaporation solenoid valve</p>	<p align="center"><b>M15</b></p>
 <p>BLR1 • M15 2 No1 • M15 1</p> <p>BLR1 • S12a 2 No1 • S11 1</p> <p align="right">33.90.013</p>		 <p>BLR1 • G288</p> <p>No1 • G288</p> <p align="right">33.90.015</p>	
<p align="center">Electroinjector 1</p>	<p align="center"><b>S3</b></p>	<p align="center">Electroinjector 2</p>	<p align="center"><b>S3</b></p>
 <p>G1 • G8 R1 • G8</p> <p align="right">33.90.047</p>		 <p>G1 • G8 R1 • G8</p> <p align="right">33.90.047</p>	



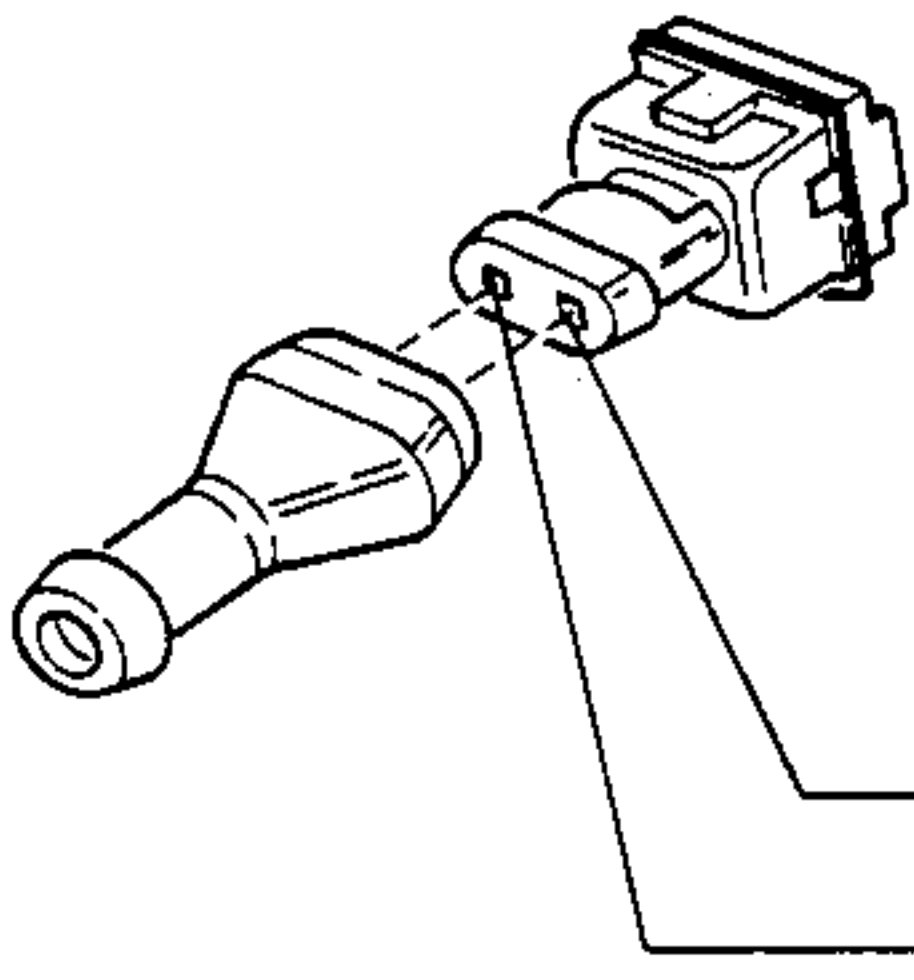
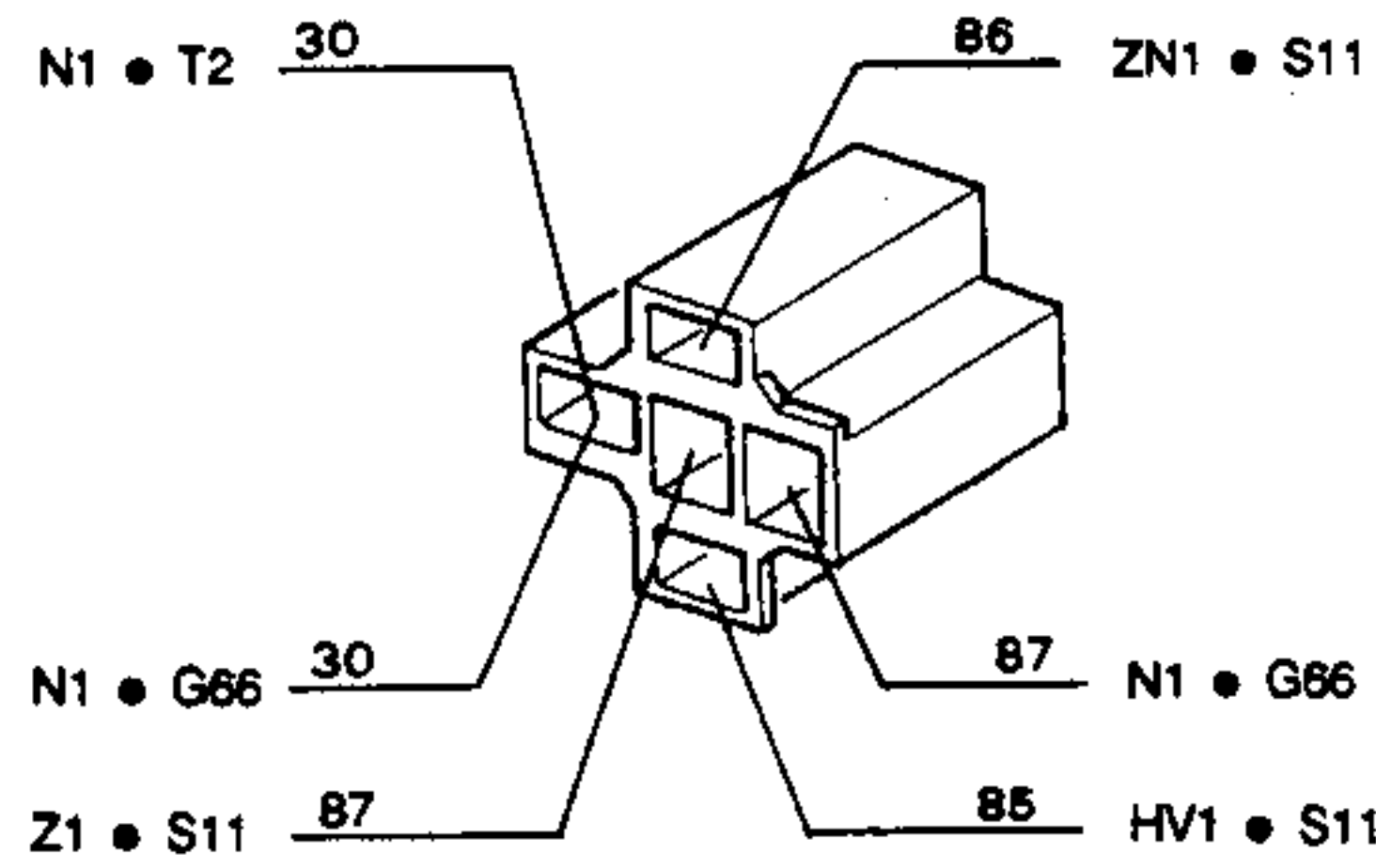
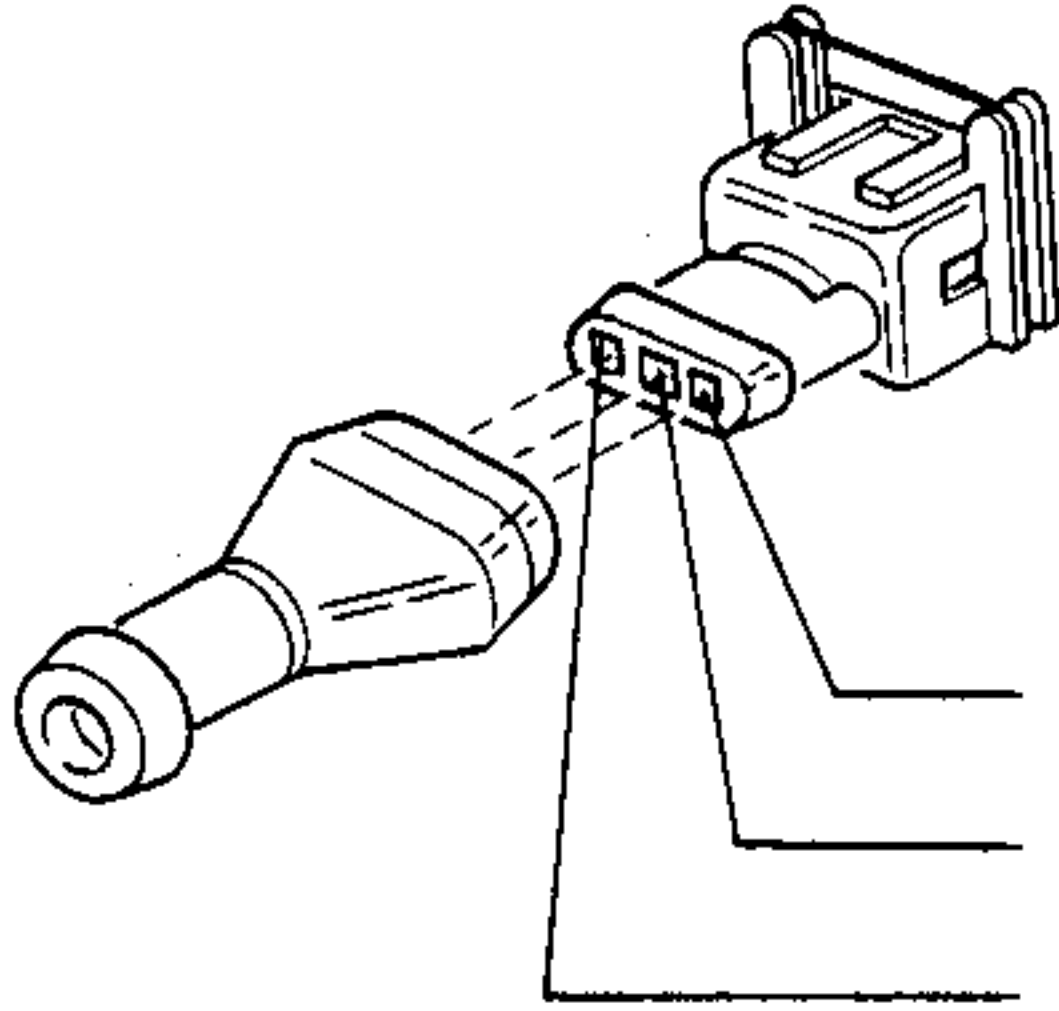
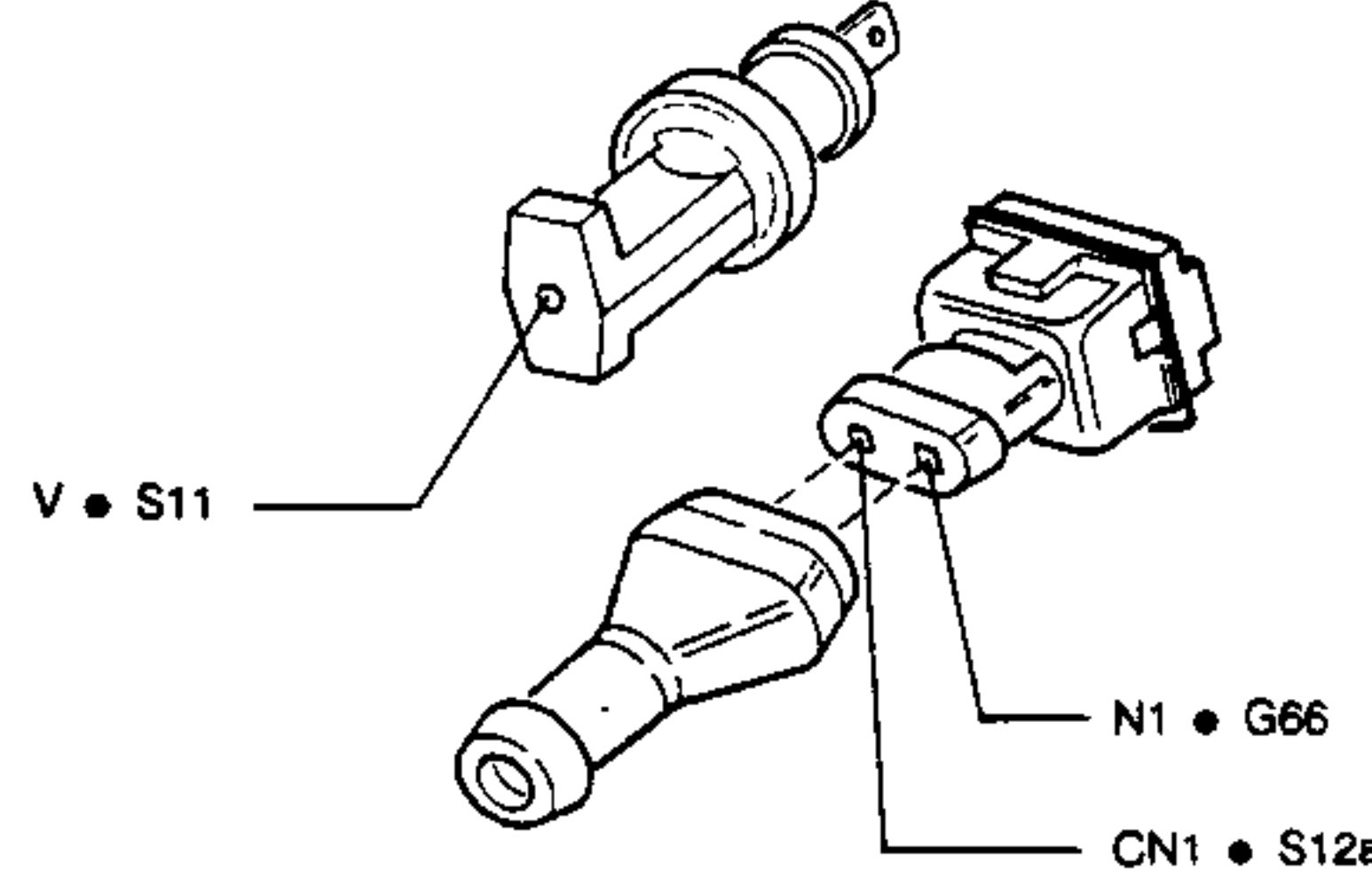
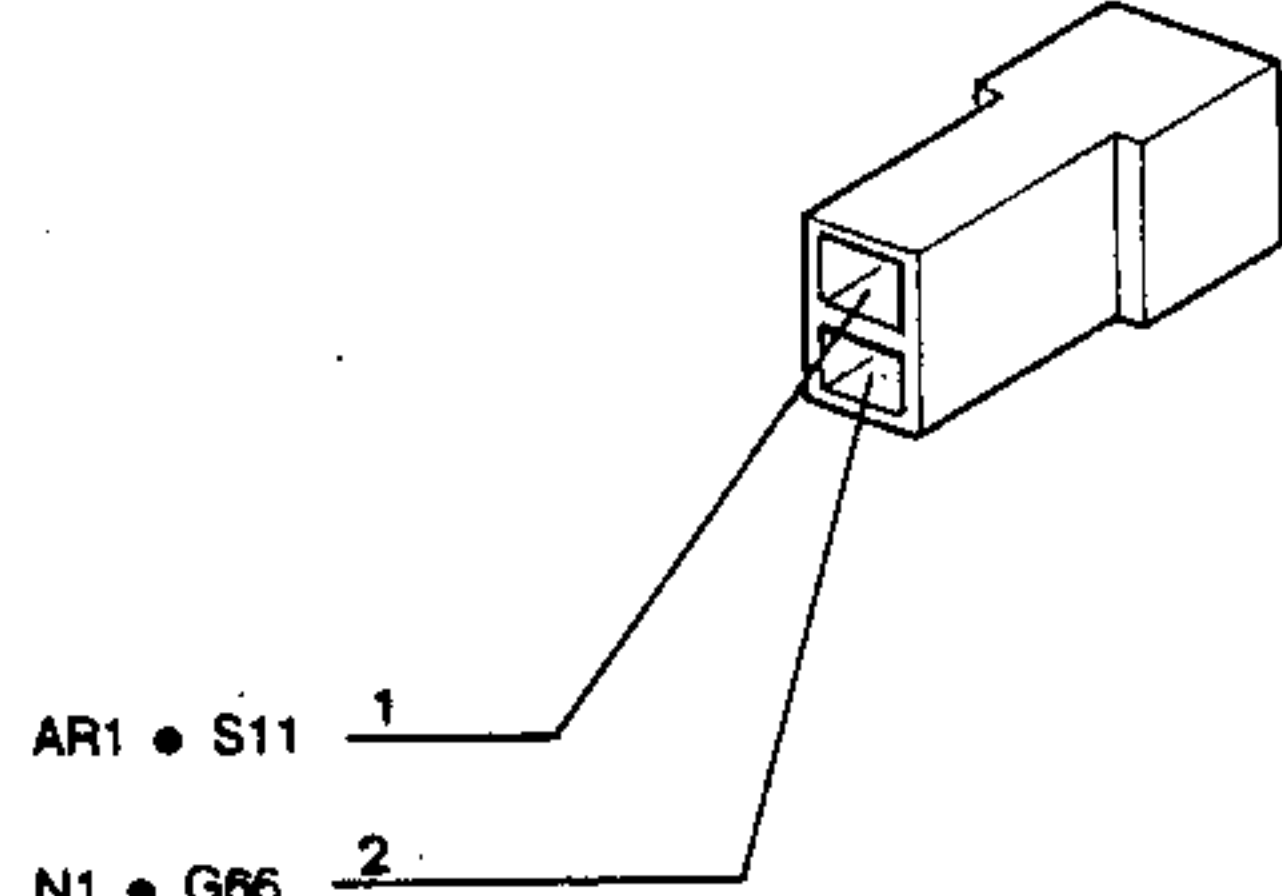
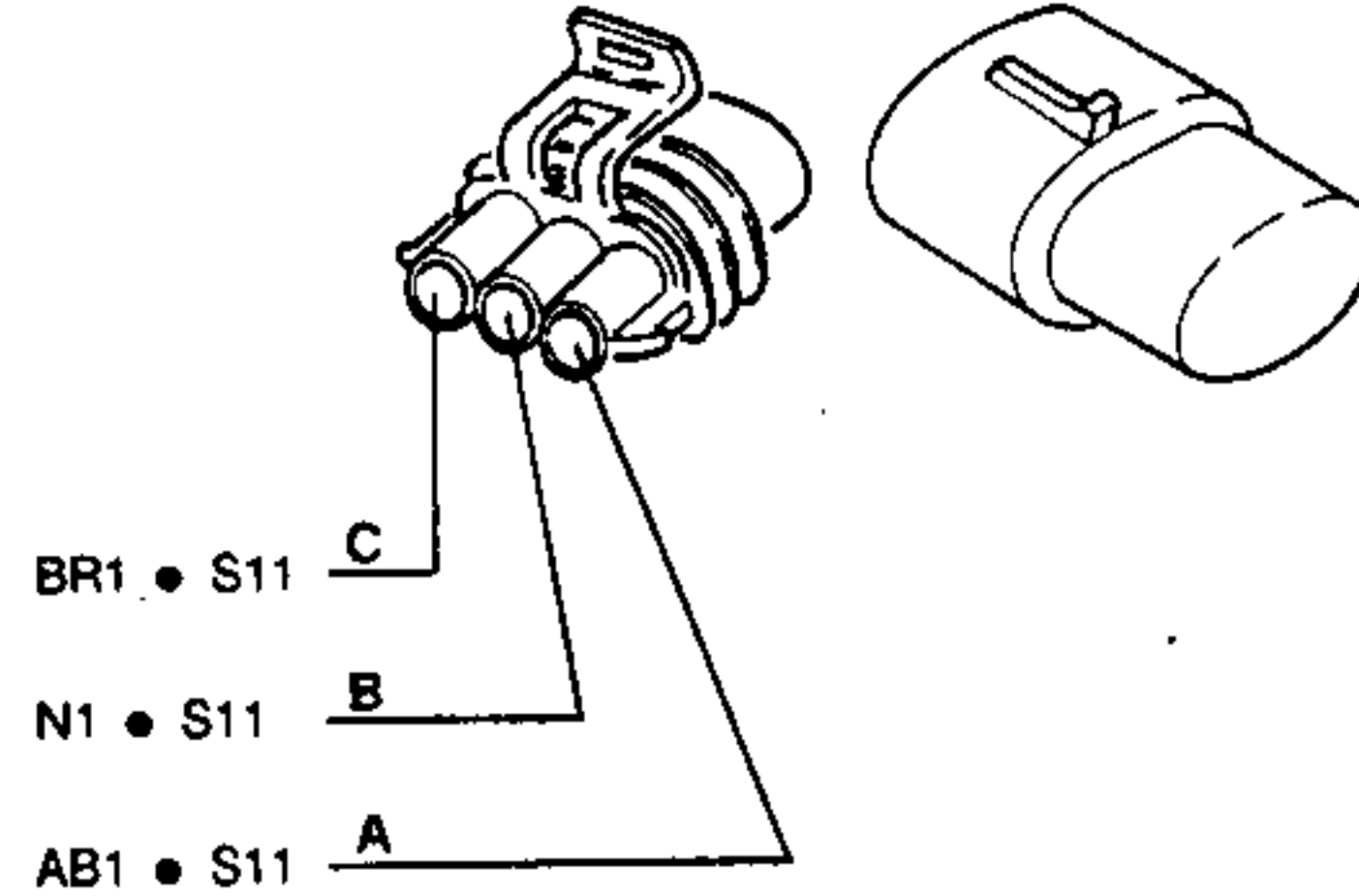
**ELECTRICAL SYSTEM**

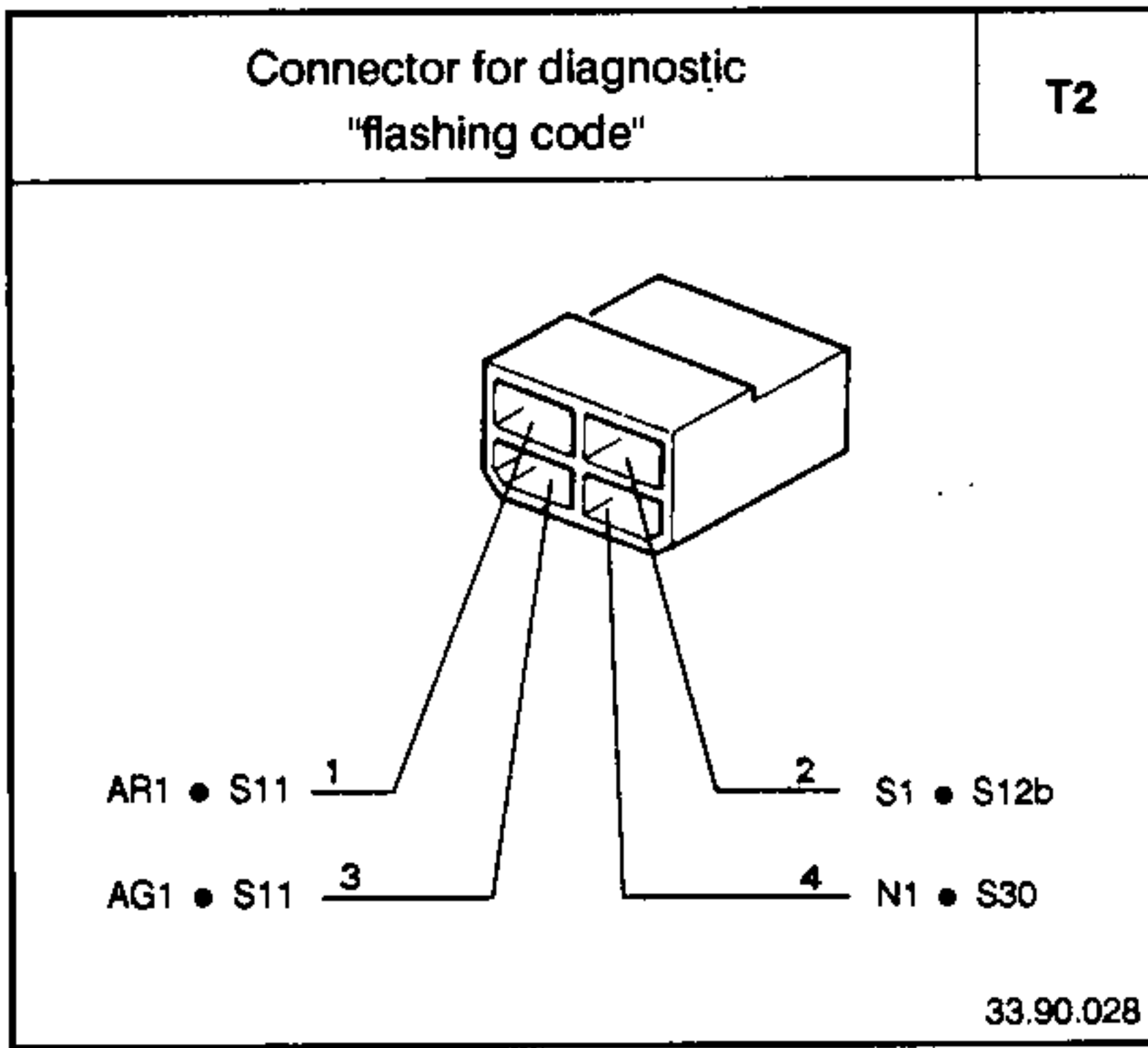
<p align="center"><b>Electroinjector 3</b></p>	<p align="center"><b>S3</b></p>	<p align="center"><b>Electroinjector 4</b></p>	<p align="center"><b>S3</b></p>
 <p>Diagram showing the wiring for Electroinjector 3. The connector has two terminals. The top terminal is connected to G1 • G8. The bottom terminal is connected to R1 • G8.</p>		 <p>Diagram showing the wiring for Electroinjector 4. The connector has two terminals. The top terminal is connected to G1 • G8. The bottom terminal is connected to R1 • G8.</p>	
<p align="right">33.90.047</p>		<p align="right">33.90.047</p>	
<p align="center"><b>Air flow gauge (before modification)</b></p>	<p align="center"><b>S5</b></p>	<p align="center"><b>Air flow gauge (after modification)</b></p>	<p align="center"><b>S5</b></p>
 <p>Diagram showing the wiring for the Air flow gauge before modification. The connector has five terminals. Terminal 3 is connected to AB1 • S11. Terminal 4 is connected to V1 • S11. Terminal 5 is connected to HR1 • S11. Terminal 1 is connected to GN1 • S11. Terminal 2 is connected to BN1 • S11.</p>		 <p>Diagram showing the wiring for the Air flow gauge after modification. The connector has five terminals. Terminal 3 is connected to AB1 • S11. Terminal 4 is connected to V1 • S11. Terminal 5 is connected to HR1 • S11. Terminal 1 is connected to GN1 • S11. Terminal 2 is connected to BN1 • S11.</p>	
<p align="right">33.90.050</p>		<p align="right">33.90.048</p>	
<p align="center"><b>Accelerator butterfly switch</b></p>	<p align="center"><b>S6</b></p>	<p align="center"><b>Engine coolant temperature sensor</b></p>	<p align="center"><b>S7</b></p>
 <p>Diagram showing the wiring for the Accelerator butterfly switch. The connector has three terminals. The top terminal is connected to B1 • S11. The middle terminal is connected to N1 • G66. The bottom terminal is connected to G1 • S11.</p>		 <p>Diagram showing the wiring for the Engine coolant temperature sensor. The connector has two terminals. The top terminal is connected to N1 • G287. The bottom terminal is connected to M1 • G287.</p>	
<p align="right">33.90.049</p>		<p align="right">33.90.047</p>	

# ELECTRICAL SYSTEM



# ELECTRICAL SYSTEM

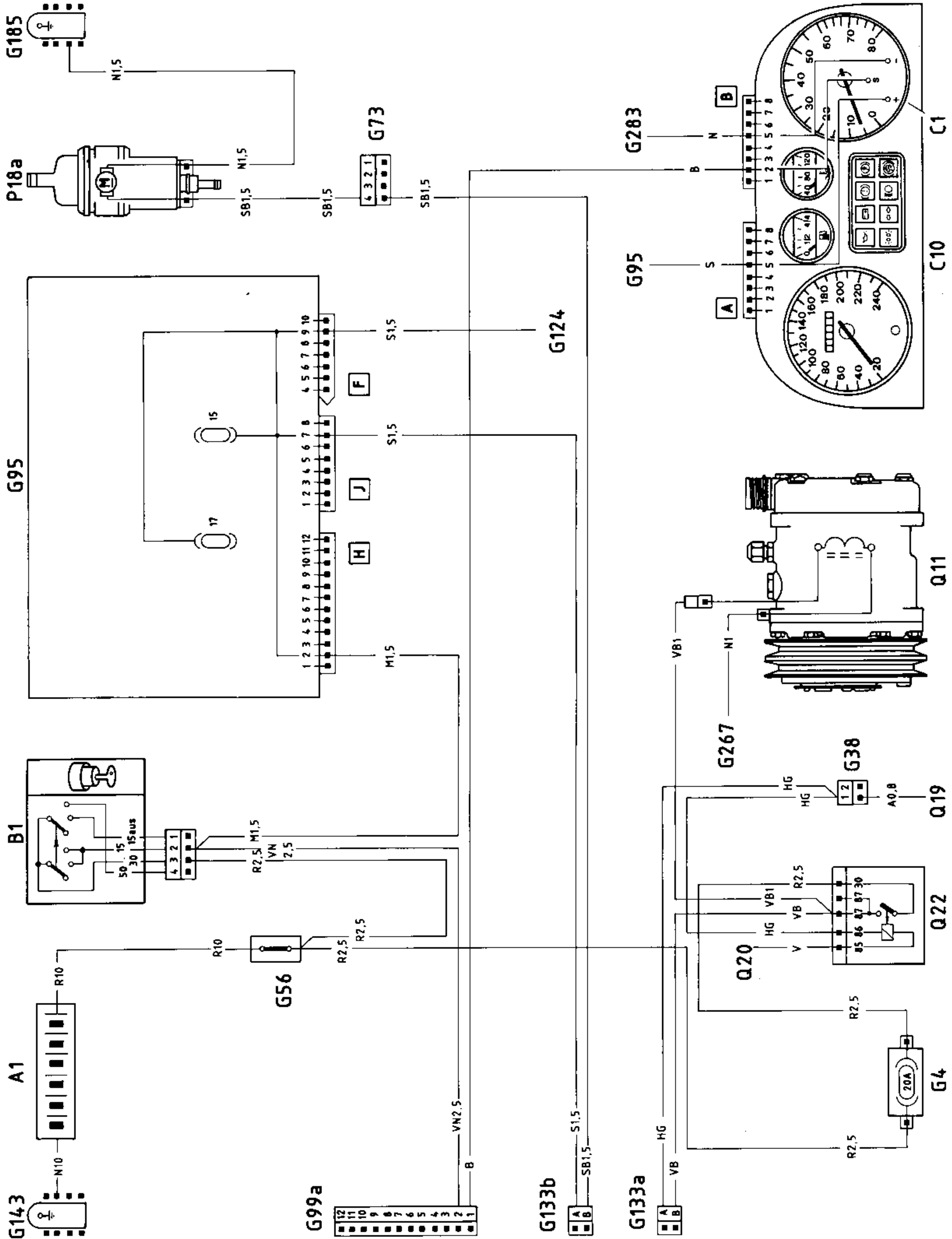
<p><b>Idle adjusting actuator</b></p> <p style="text-align: right;"><b>S29</b></p>  <p style="text-align: right;">AN1 • S11 C1 • S12b</p> <p style="text-align: right;">33.90.047</p>	<p><b>Motronic control unit switch connector</b></p> <p style="text-align: right;"><b>S30</b></p>  <p style="text-align: right;">N1 • T2 30      86      ZN1 • S11 N1 • G66 30      87      N1 • G66 Z1 • S11 87      85      HV1 • S11</p> <p style="text-align: right;">33.90.023</p>
<p><b>Revolution and timing sensor</b></p> <p style="text-align: right;"><b>S31</b></p>  <p style="text-align: right;">G0,8 • S11 N0,8 • S11 Screening</p> <p style="text-align: right;">33.90.049</p>	<p><b>Heated Lambda probe</b></p> <p style="text-align: right;"><b>S35</b></p>  <p style="text-align: right;">V • S11 N1 • G66 CN1 • S12a</p> <p style="text-align: right;">33.90.047 - 33.90.051</p>
<p><b>4 x 2 / 4 x 4 switching connector</b></p> <p style="text-align: right;"><b>S37</b></p>  <p style="text-align: right;">AR1 • S11 1 N1 • G66 2</p> <p style="text-align: right;">33.90.043</p>	<p><b>Connector for Alfa Tester</b></p> <p style="text-align: right;"><b>T1</b></p>  <p style="text-align: right;">BR1 • S11 C N1 • S11 B AB1 • S11 A</p> <p style="text-align: right;">33.90.040 - 33.90.029</p>



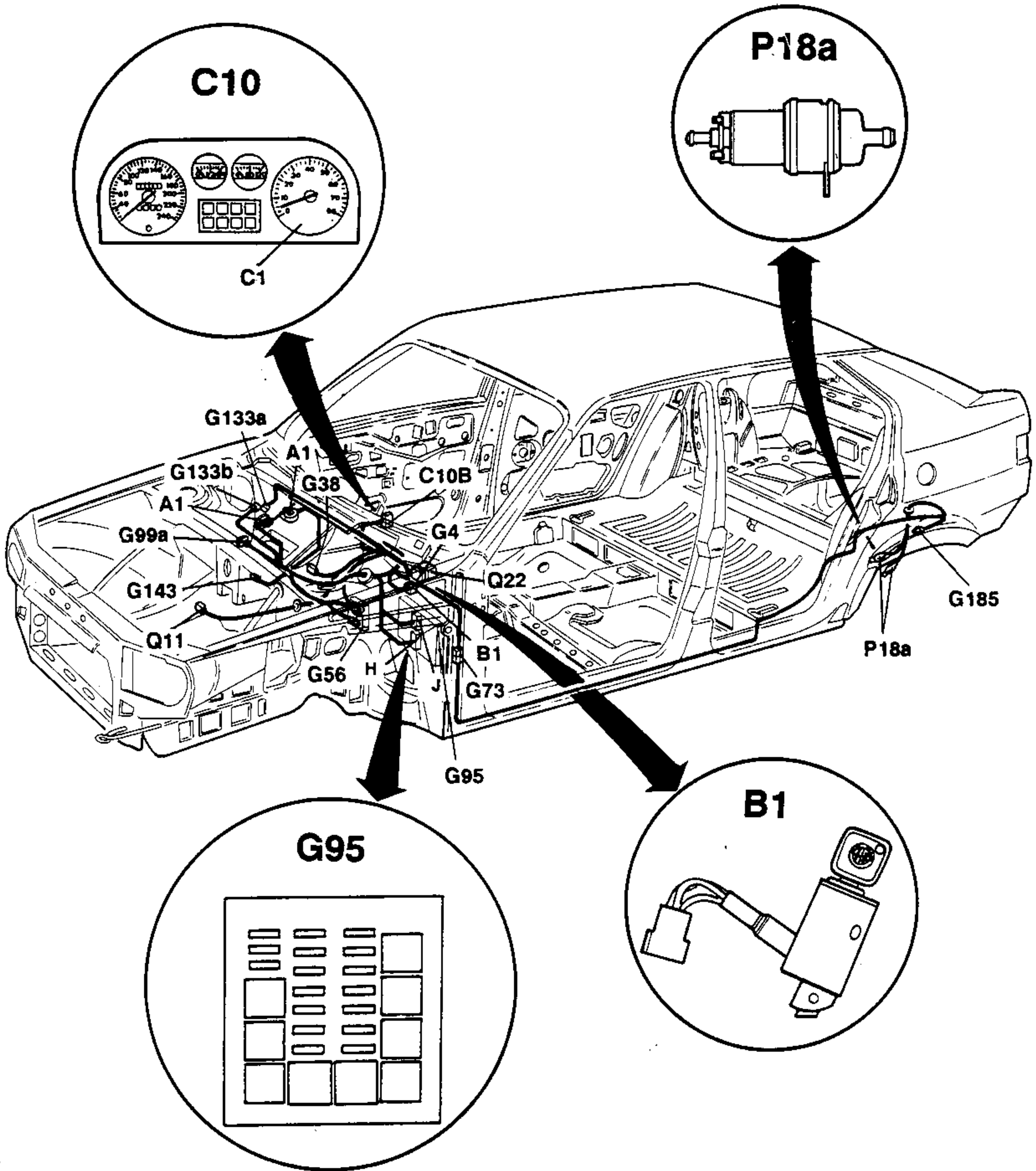
IGNITION INJECTION MOTRONIC ML4.1 (Diagram B)

33 Boxer 16V

Wiring diagram

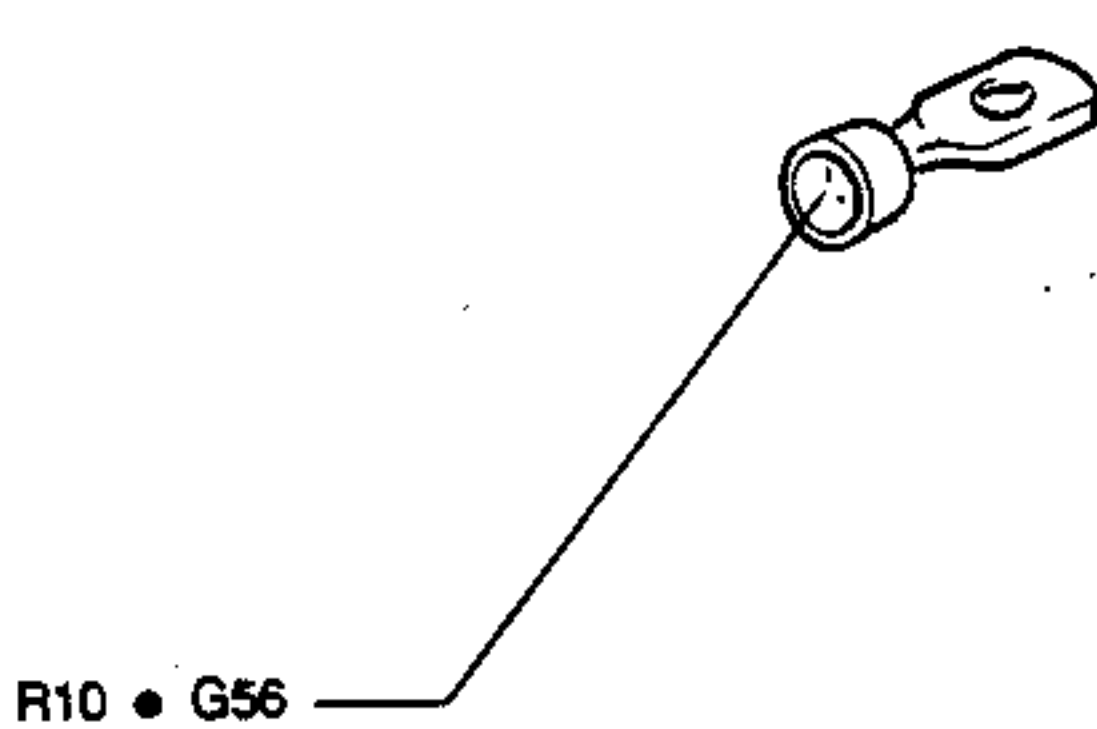
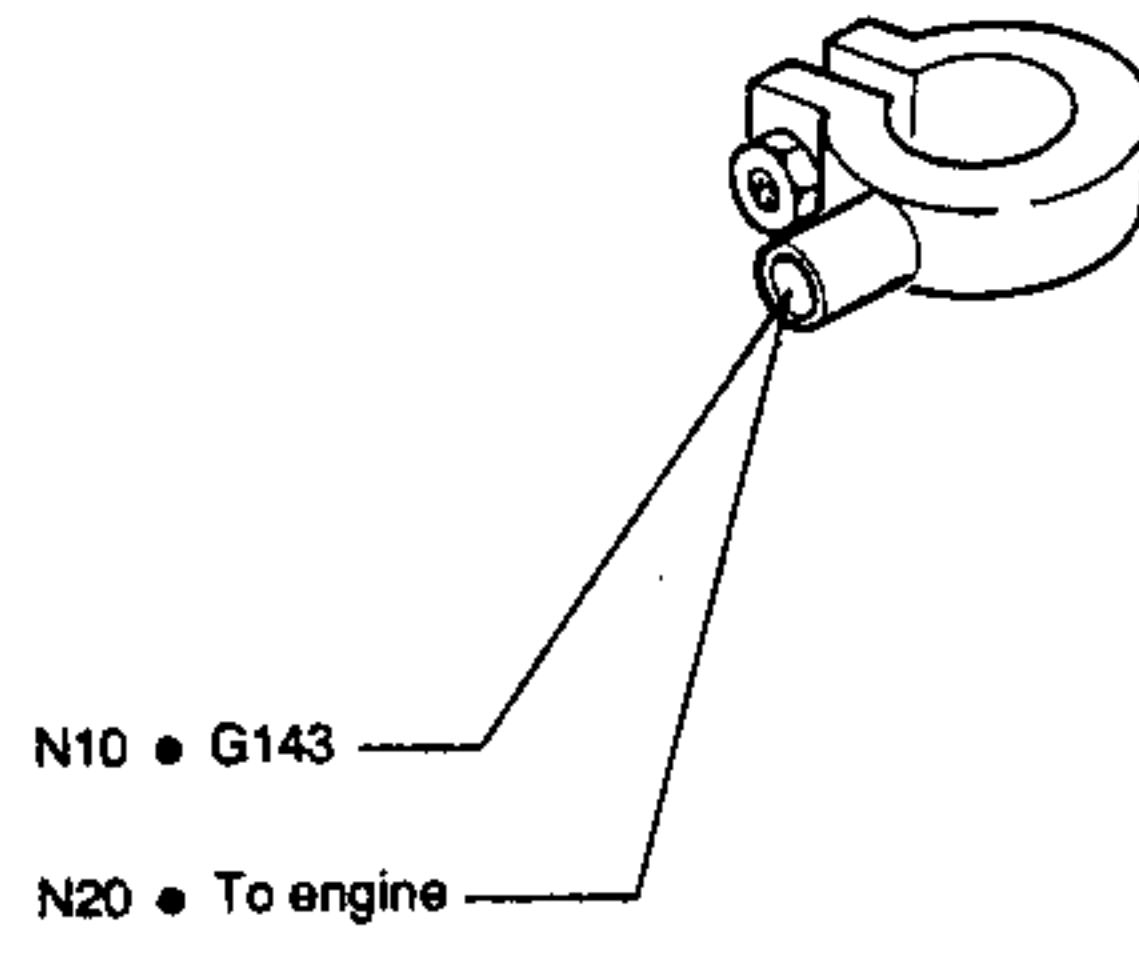
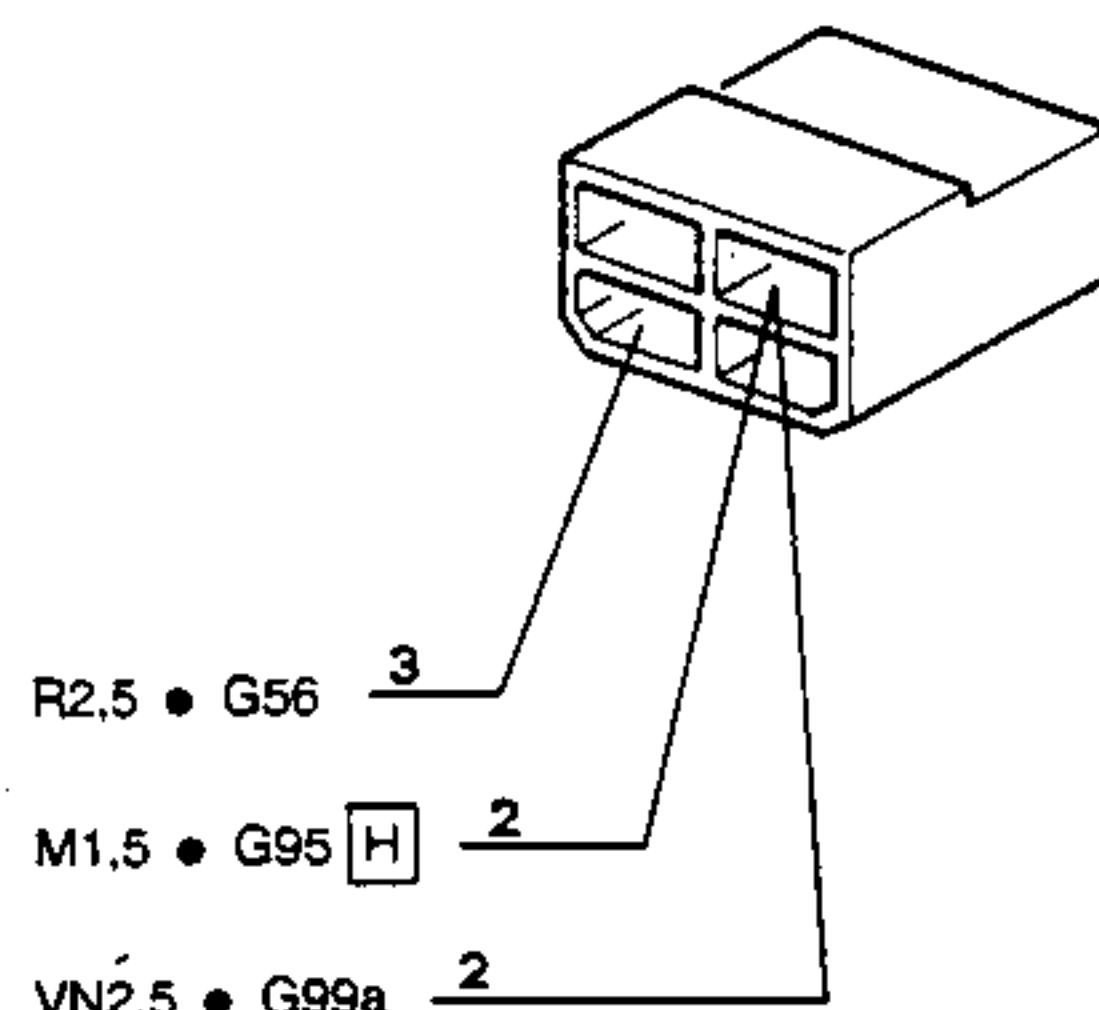
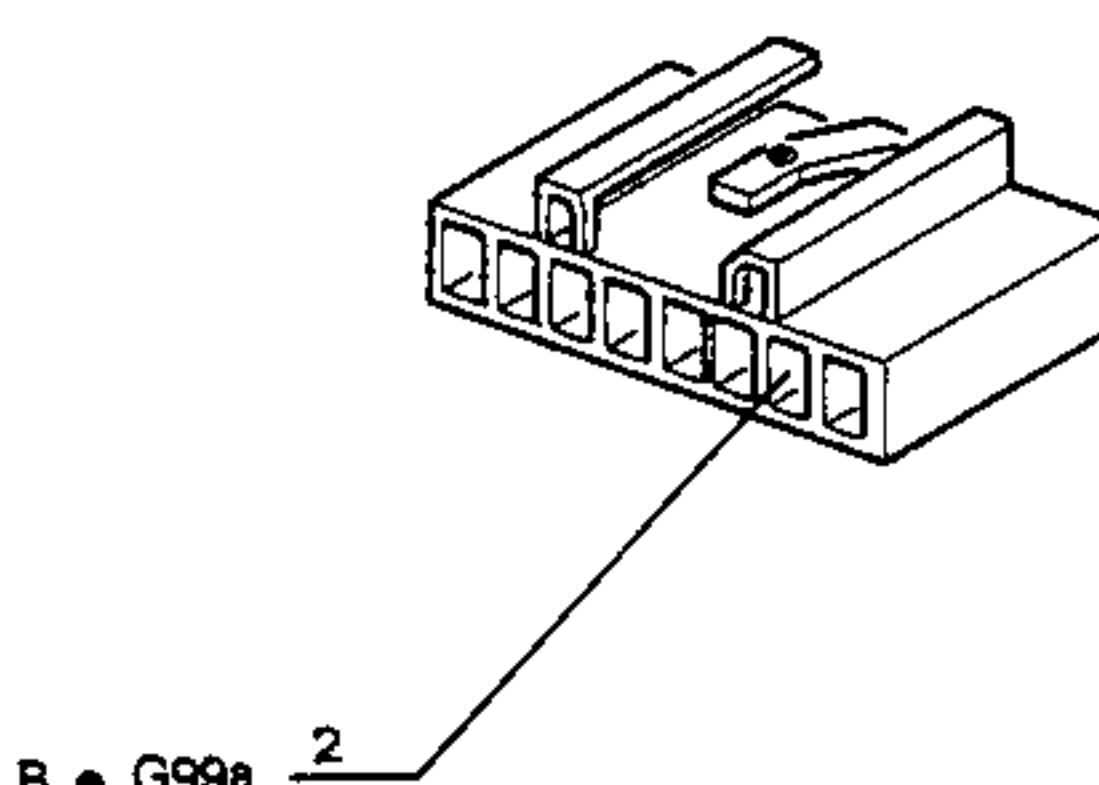
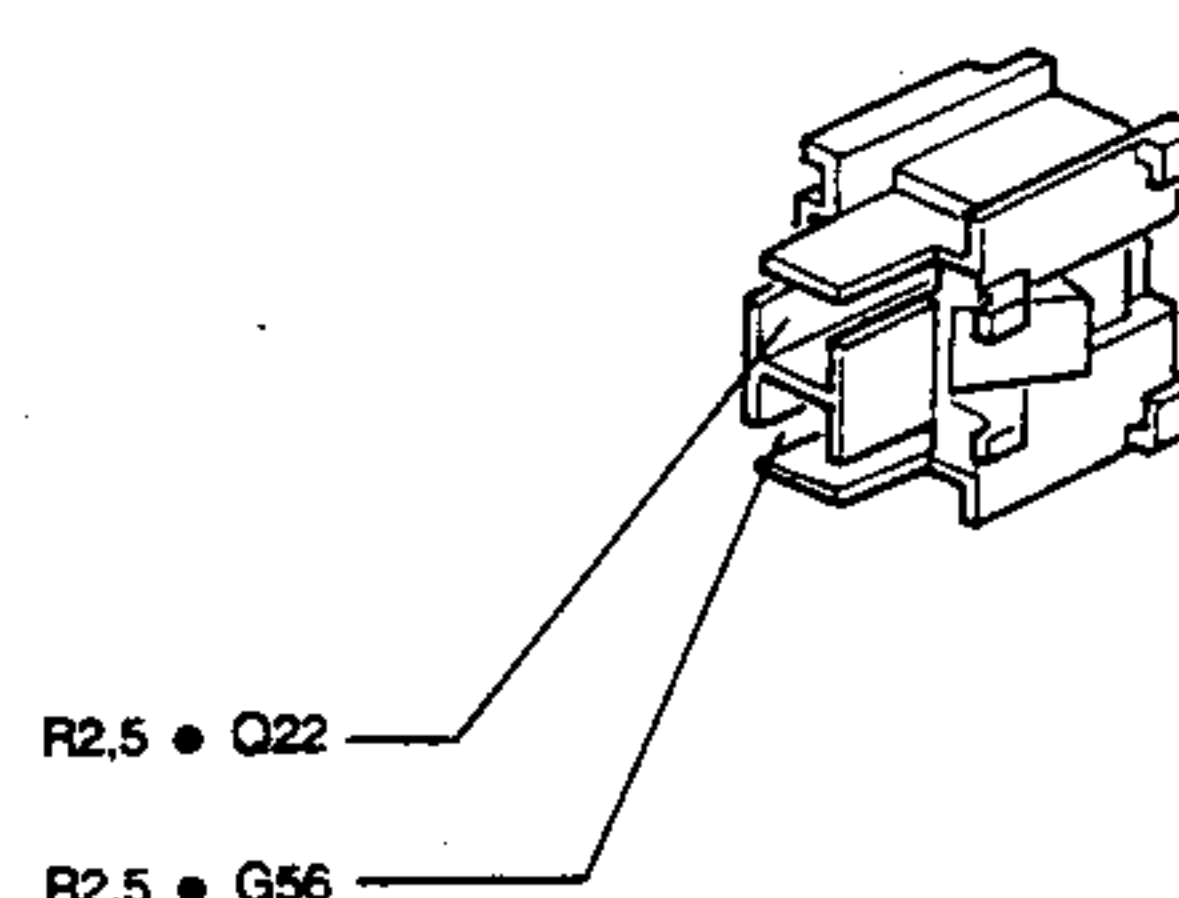
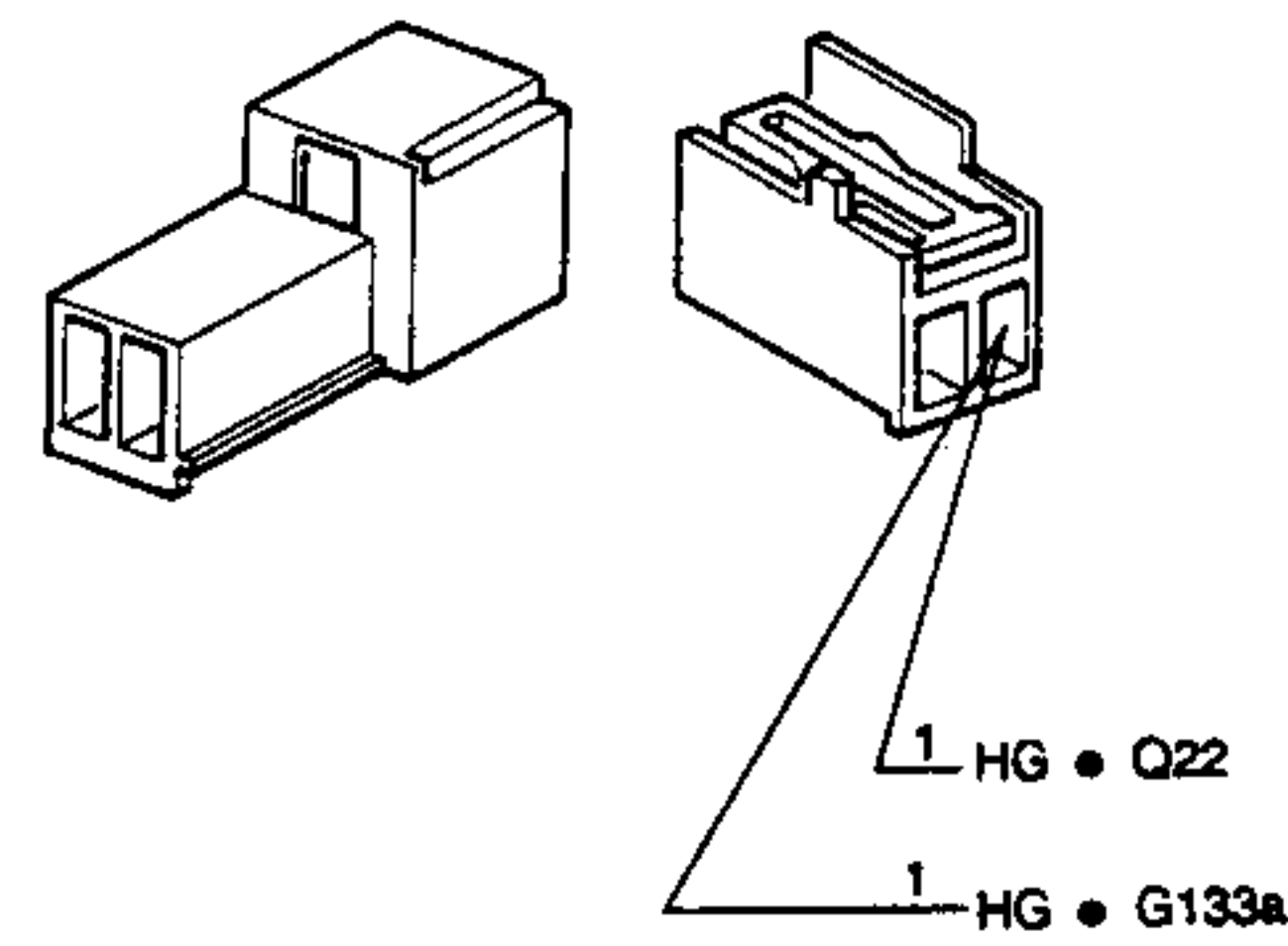


Wiring



# ELECTRICAL SYSTEM

## Connectors

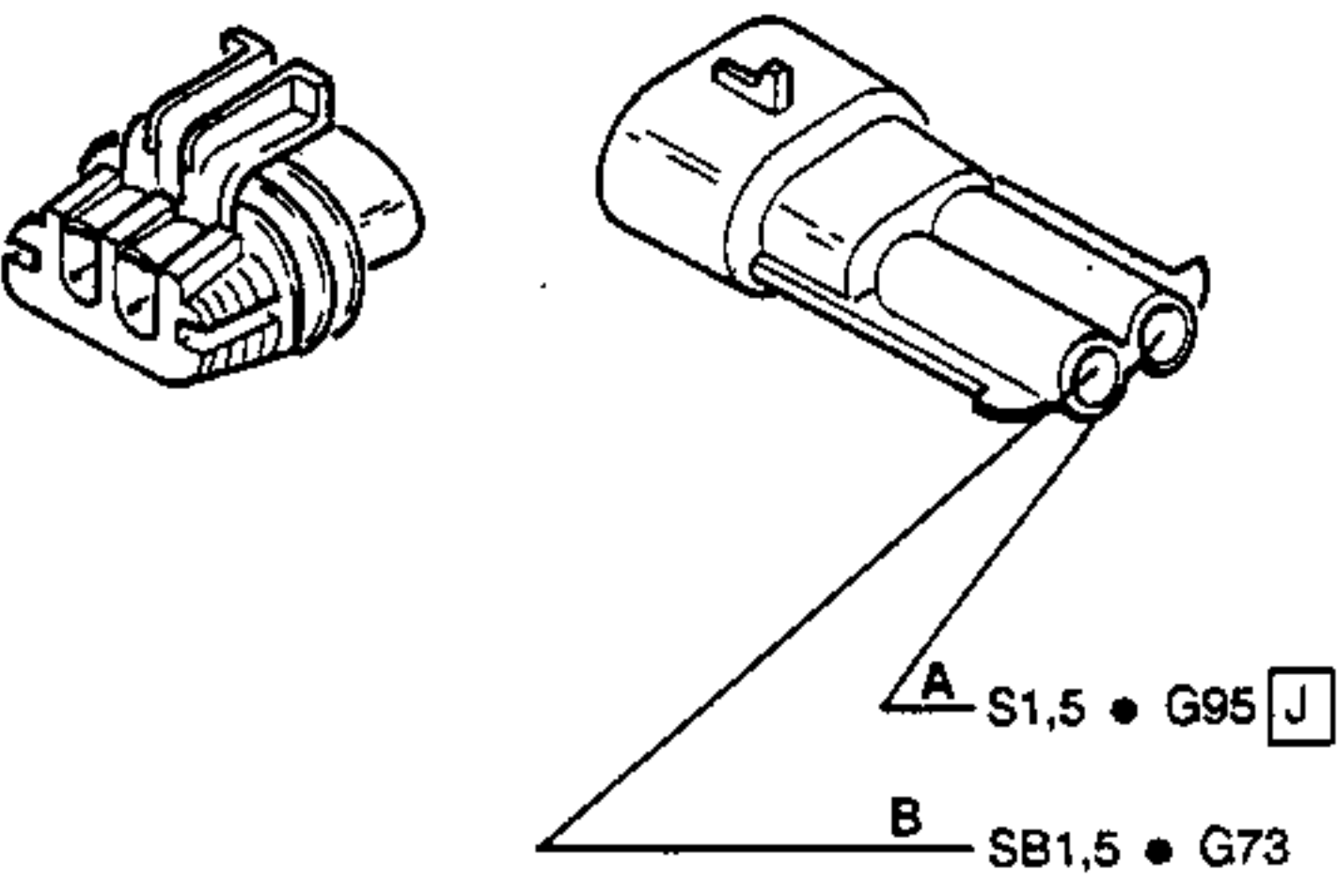
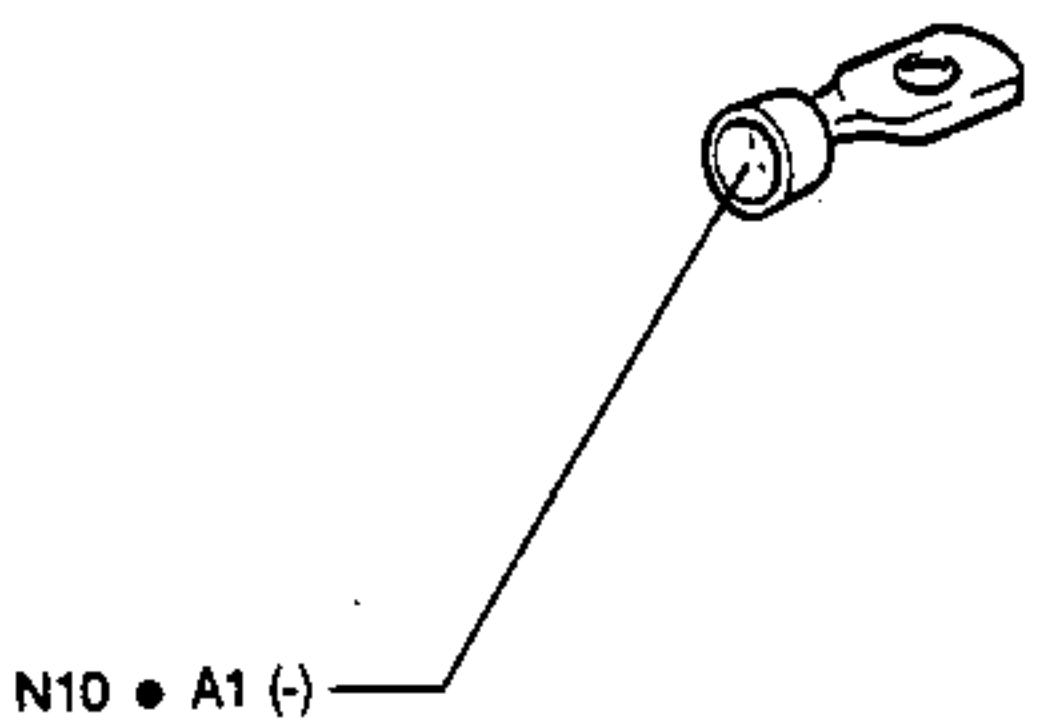
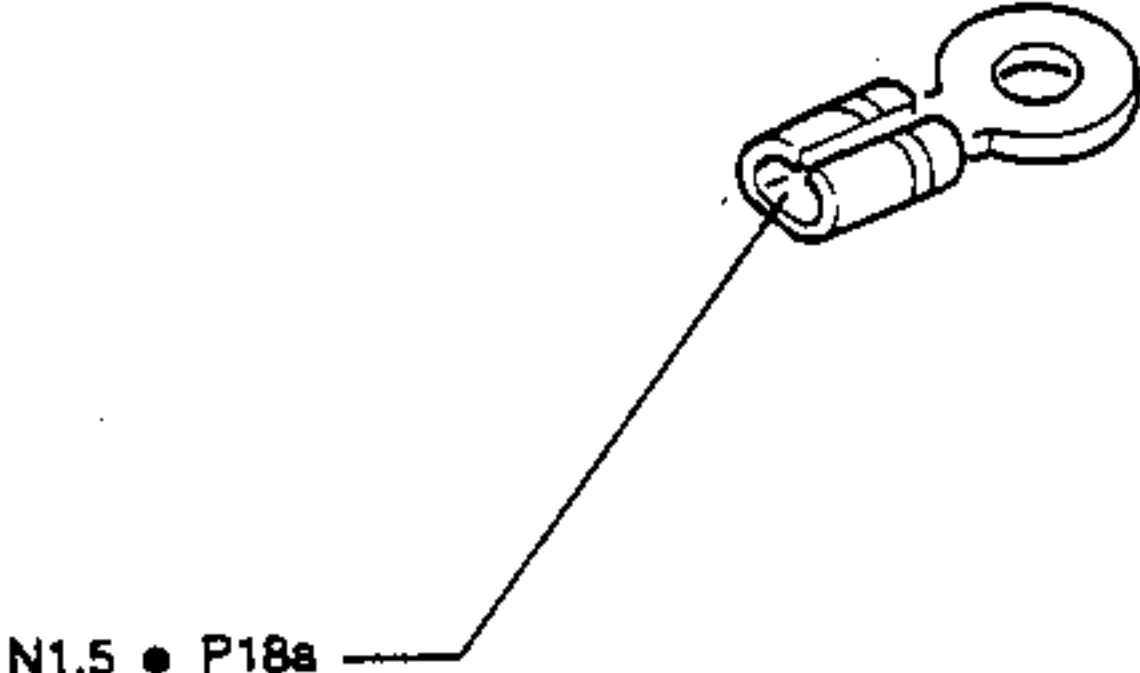
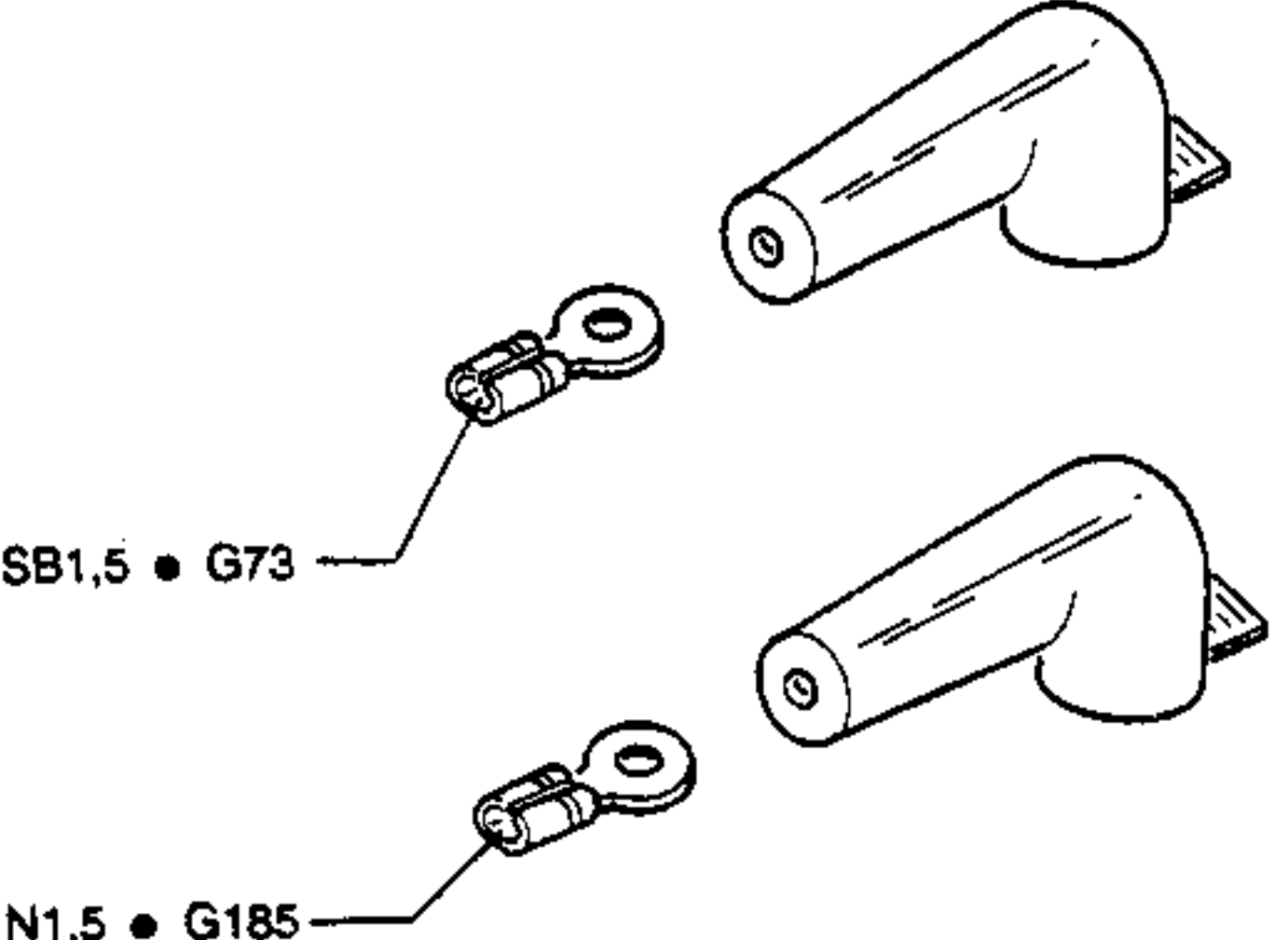
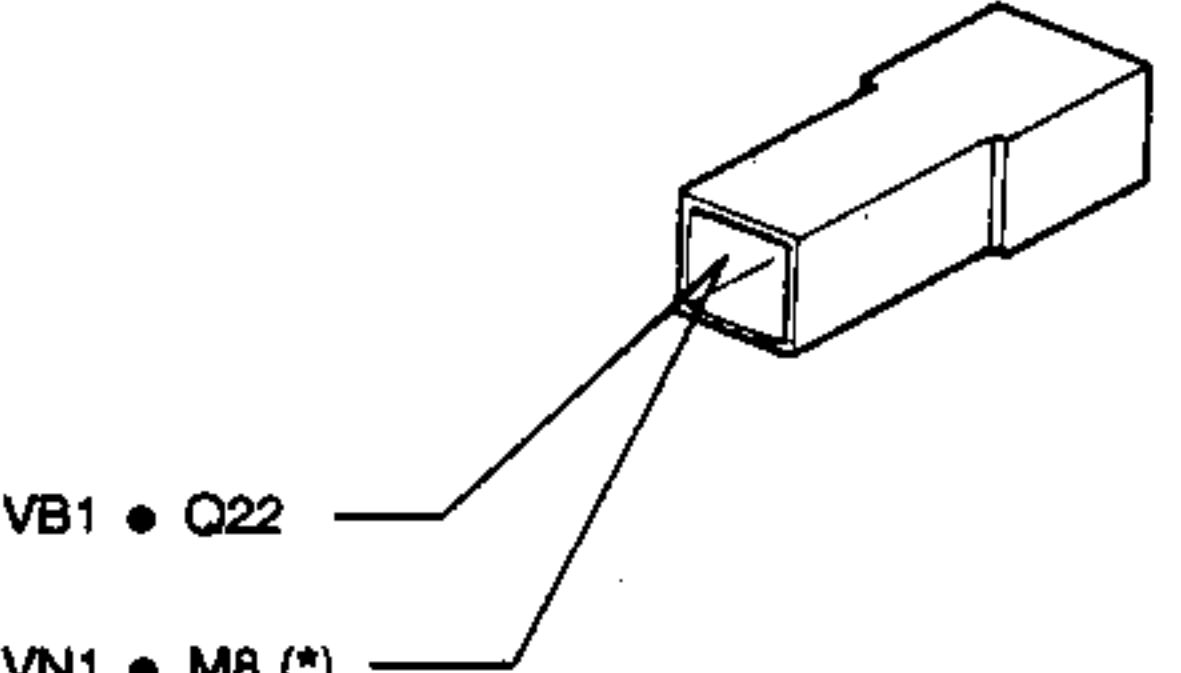
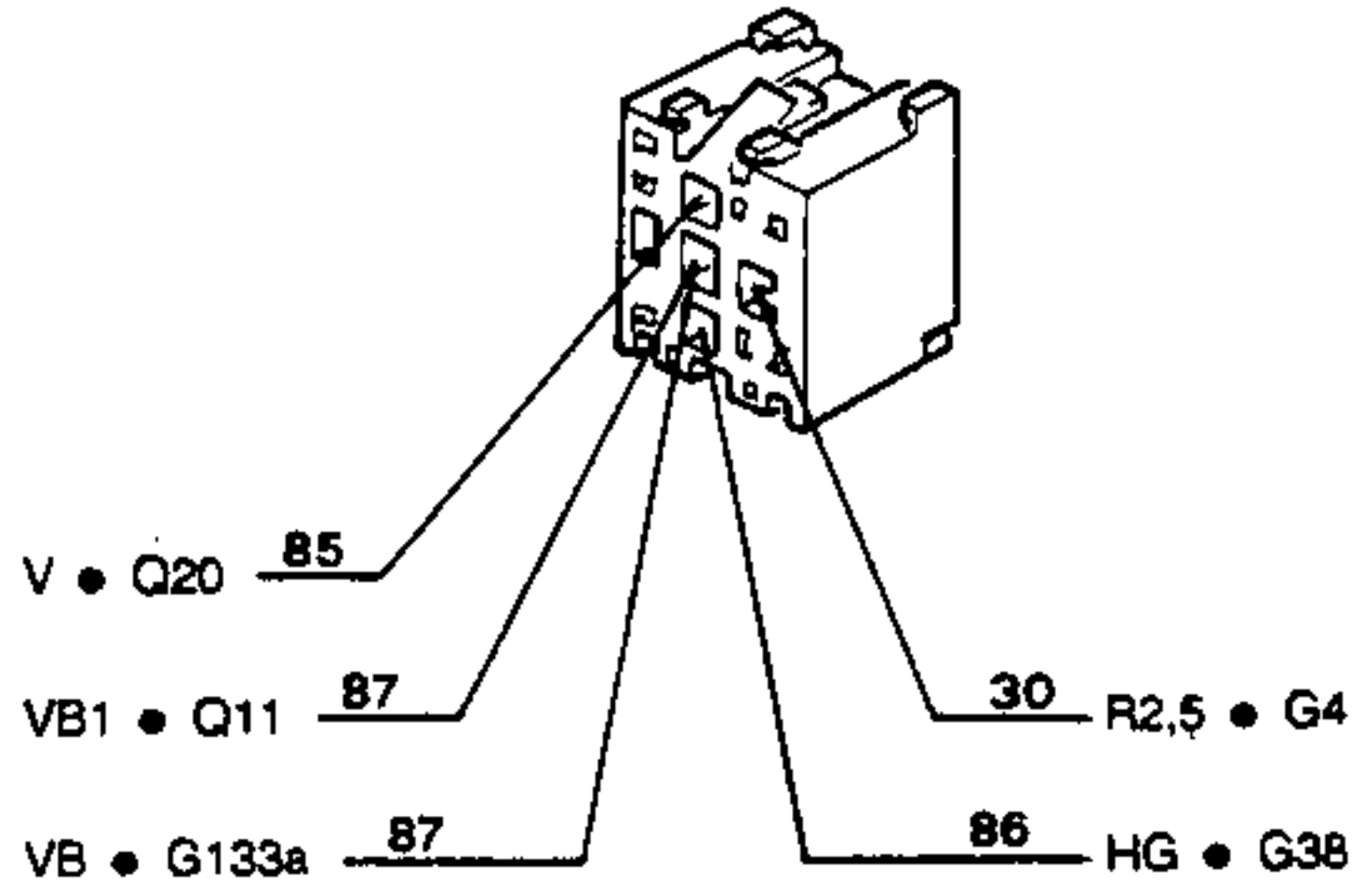
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
	33.90.001		33.90.002
Ignition switch	B1	Instrument panel	C10 B
 <p>R2.5 • G56 3 M1.5 • G95 <span style="border: 1px solid black; padding: 0 2px;">H</span> 2 VN2.5 • G99a 2</p>		 <p>B • G99a 2</p>	
	33.90.028		33.90.024
Free fuse	G4	Connector for air conditioning wiring	G38
 <p>R2.5 • Q22 R2.5 • G56</p>		 <p>1 HG • Q22 1 HG • G133a</p>	
	33.90.046		33.90.019

# ELECTRICAL SYSTEM

<b>Branch terminal board</b> <p>R2,5 • B1 R2,5 • B68 <span style="border: 1px solid black; padding: 0 2px;">A</span> R10 • A1 (+)</p> <p style="text-align: right;">R2,5 • G4 R2,5 • G4</p> <p style="text-align: right;">33.90.075</p>	<b>Connector for rear services</b> <p>SB1,5 • G133b <span style="border: 1px solid black; padding: 0 2px;">4</span> SB1,5 • P18a <span style="border: 1px solid black; padding: 0 2px;">4</span></p> <p style="text-align: right;">33.90.018</p>
<b>Central fusebox</b> <p>M1,5 • B1 <span style="border: 1px solid black; padding: 0 2px;">2</span></p> <p style="text-align: right;">33.90.004</p>	<b>Central fusebox</b> <p>S1,5 • G133b <span style="border: 1px solid black; padding: 0 2px;">7</span></p> <p style="text-align: right;">33.90.003</p>
<b>Connector for engine dashboard A</b> <p>B • C10 <span style="border: 1px solid black; padding: 0 2px;">B</span> <span style="border: 1px solid black; padding: 0 2px;">1</span> VN2,5 • B1 <span style="border: 1px solid black; padding: 0 2px;">2</span></p> <p style="text-align: right;">33.90.016</p>	<b>Ignition - electronic Injection A wiring connection</b> <p>B VB • Q22 A HG • G38</p> <p style="text-align: right;">33.90.055</p>



# ELECTRICAL SYSTEM

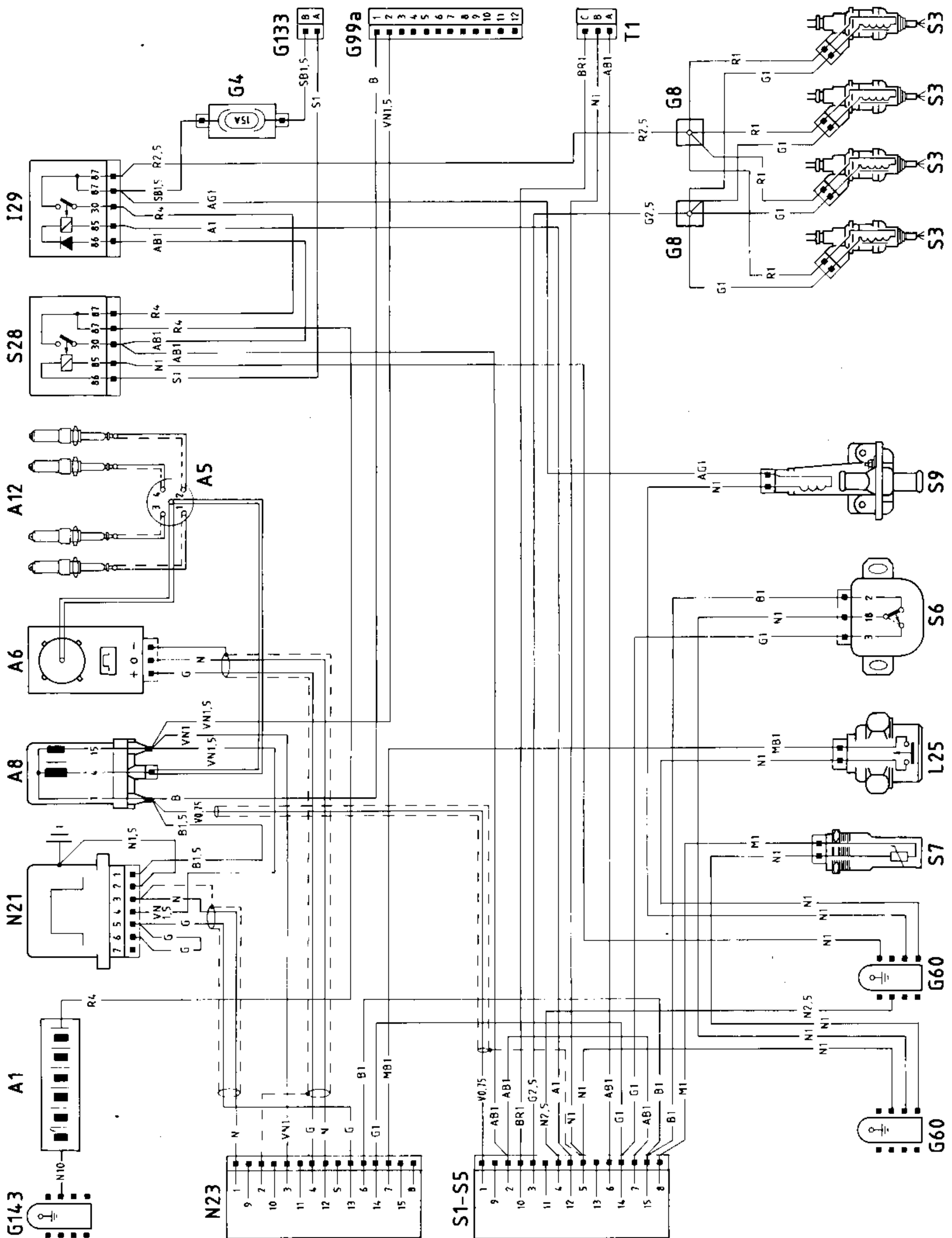
Ignition - electronic injection B wiring connection	<b>G133b</b>	Central service compartment earth	<b>G143</b>
			
33.90.055		33.90.001	
Luggage compartment earth - left side	<b>G185</b>	Main petrol pump	<b>P18a</b>
			
33.90.032		33.90.054	
Compressor electromagnetic coupling	<b>Q11</b>	Electromagnetic coupling control relay	<b>Q22</b>
			
33.90.062		33.90.007	

(\*) Not used.

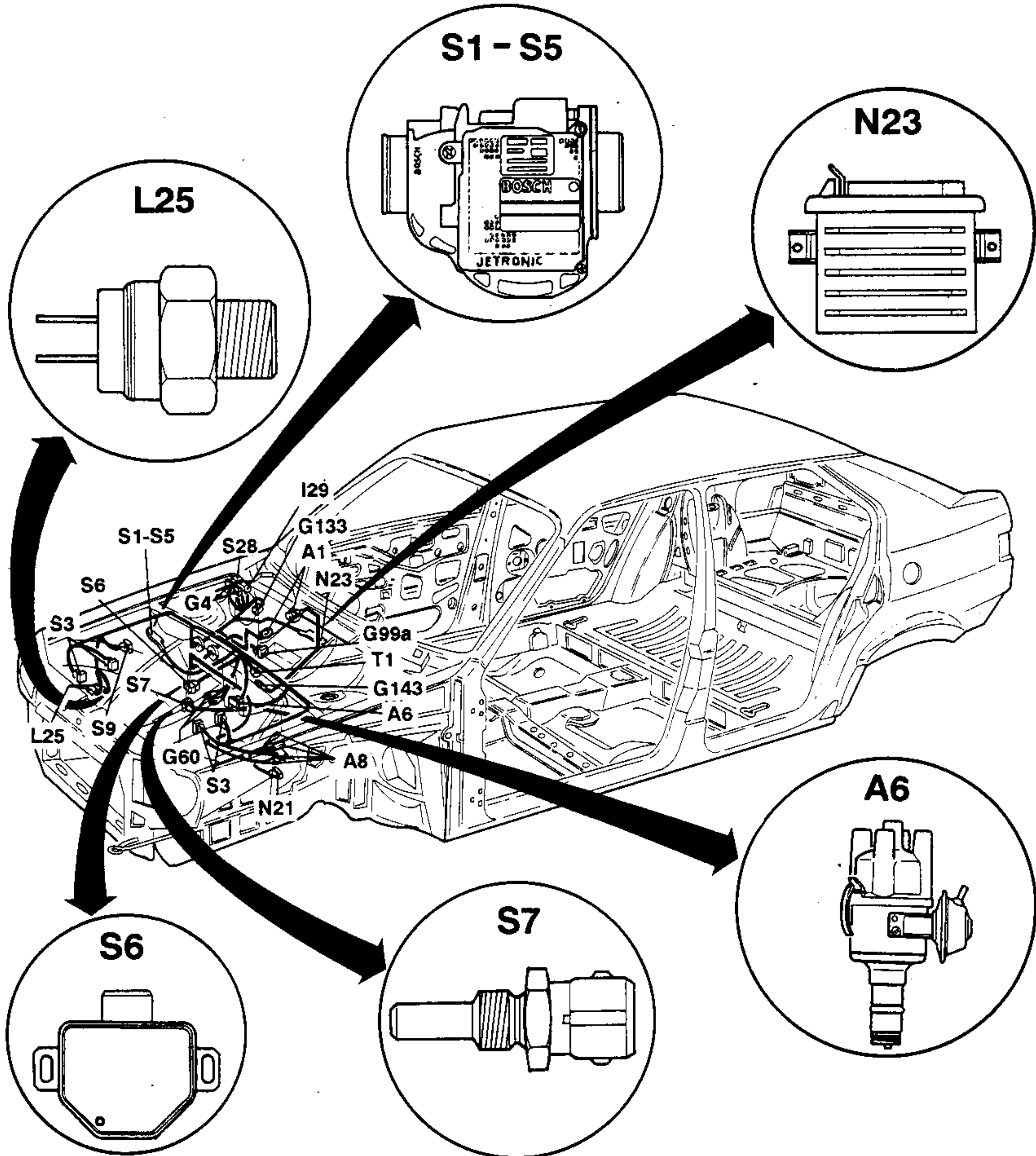
IGNITION - INJECTION LE3 JETRONIC (Diagram A)

33 1.7 IE - 33 1.7 IE 4 x 4

Wiring diagram

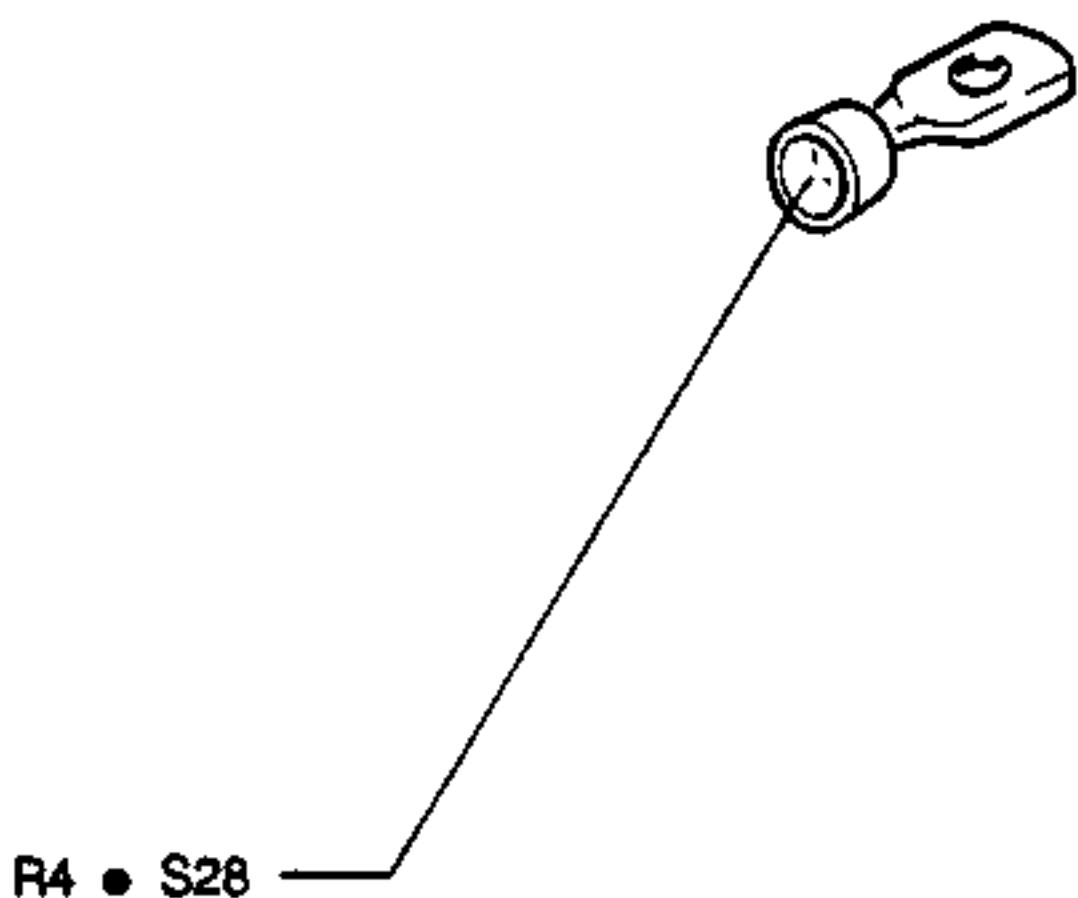
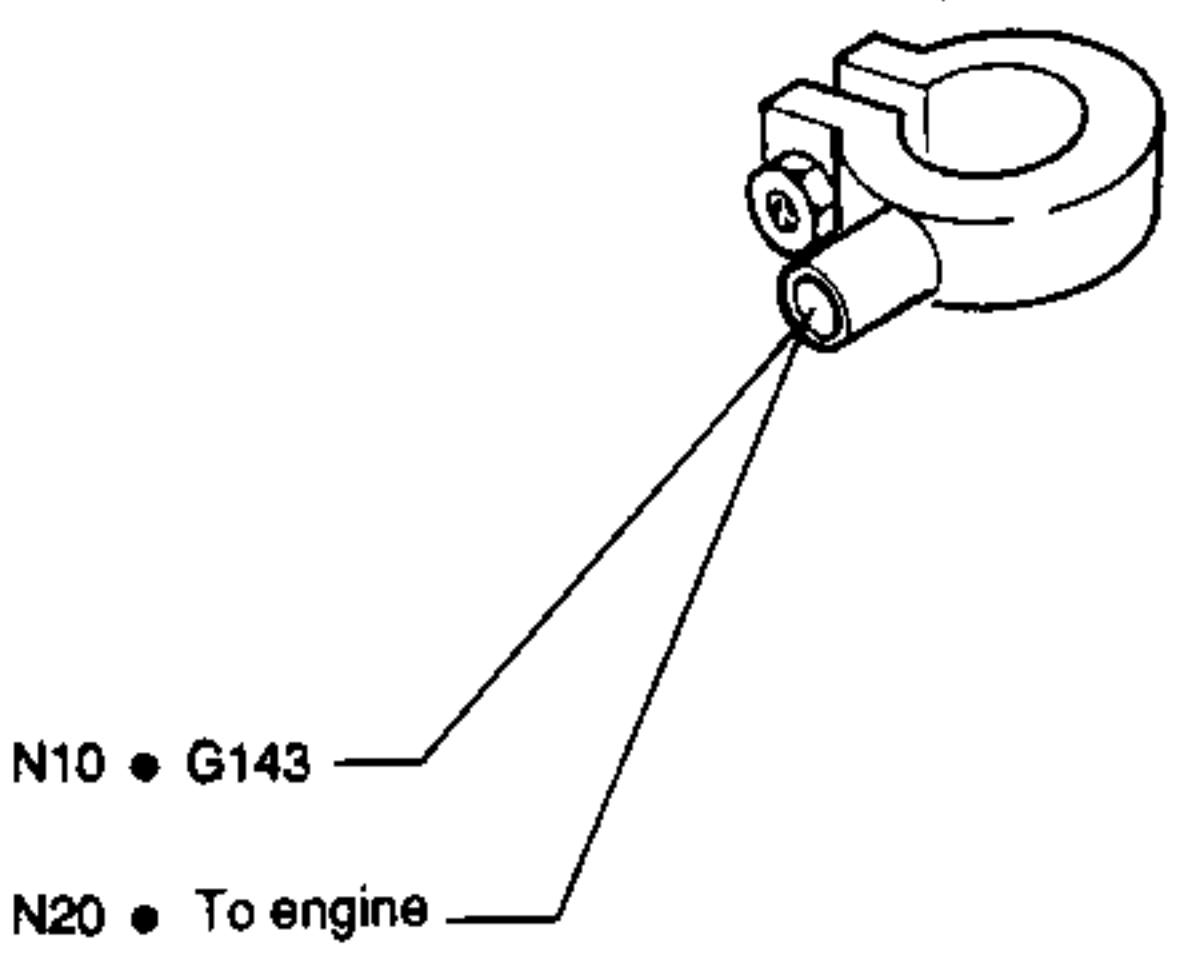
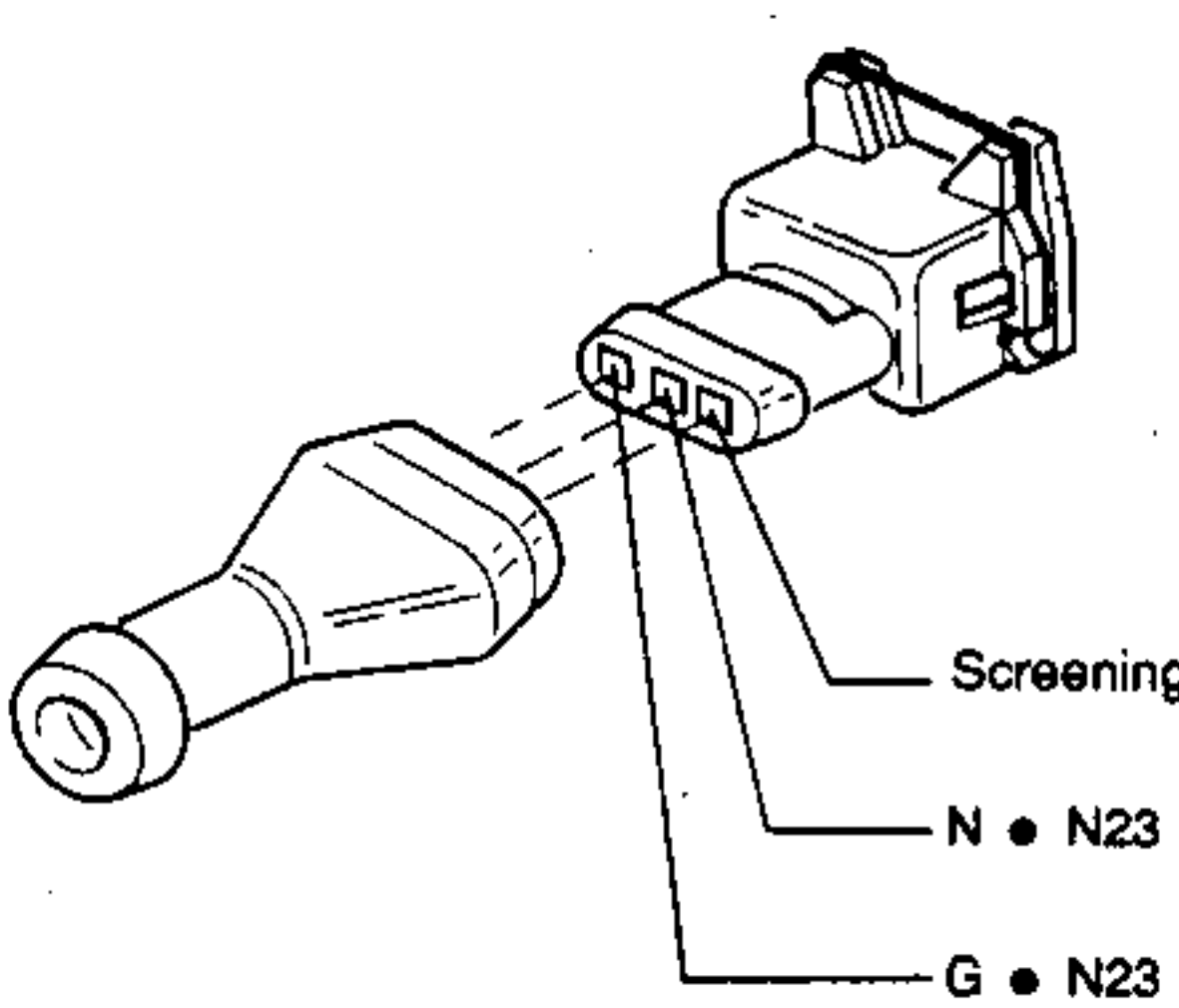
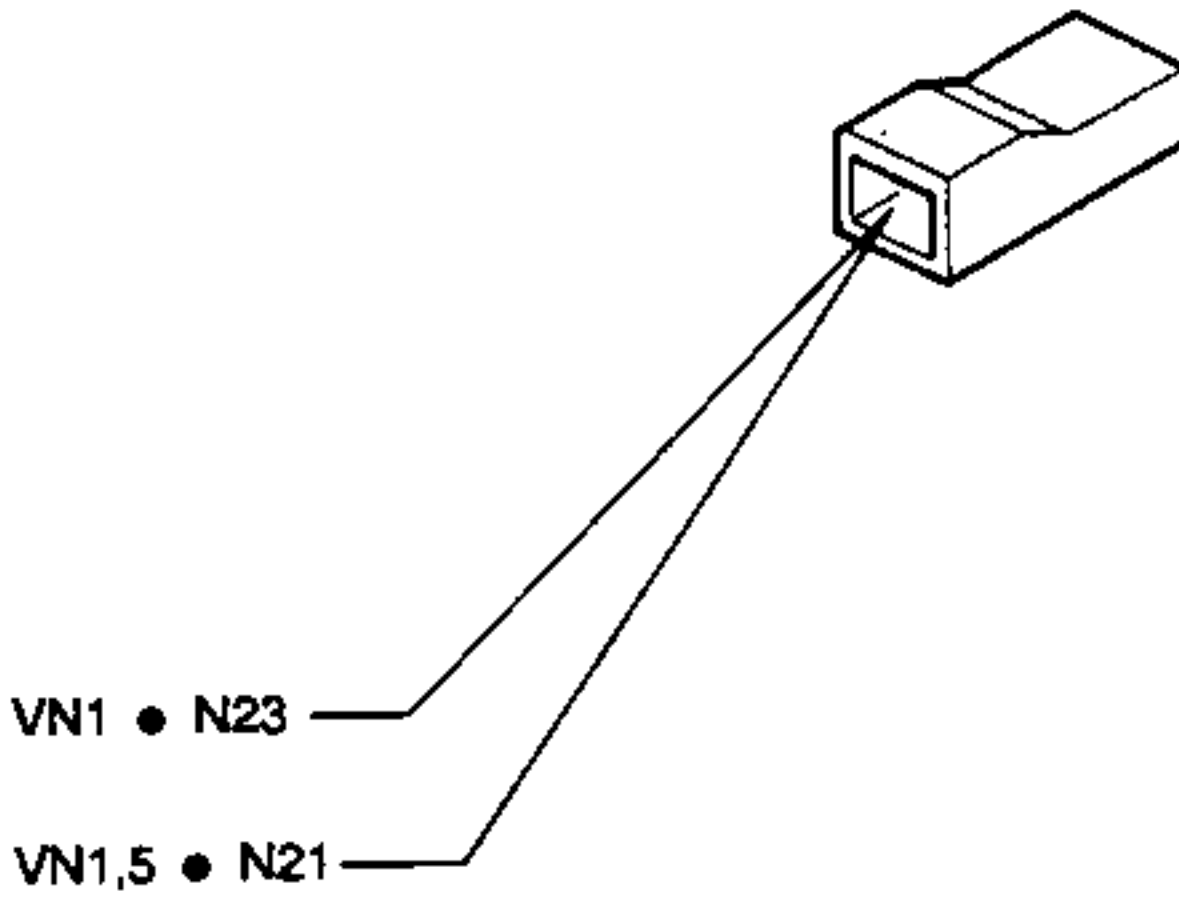
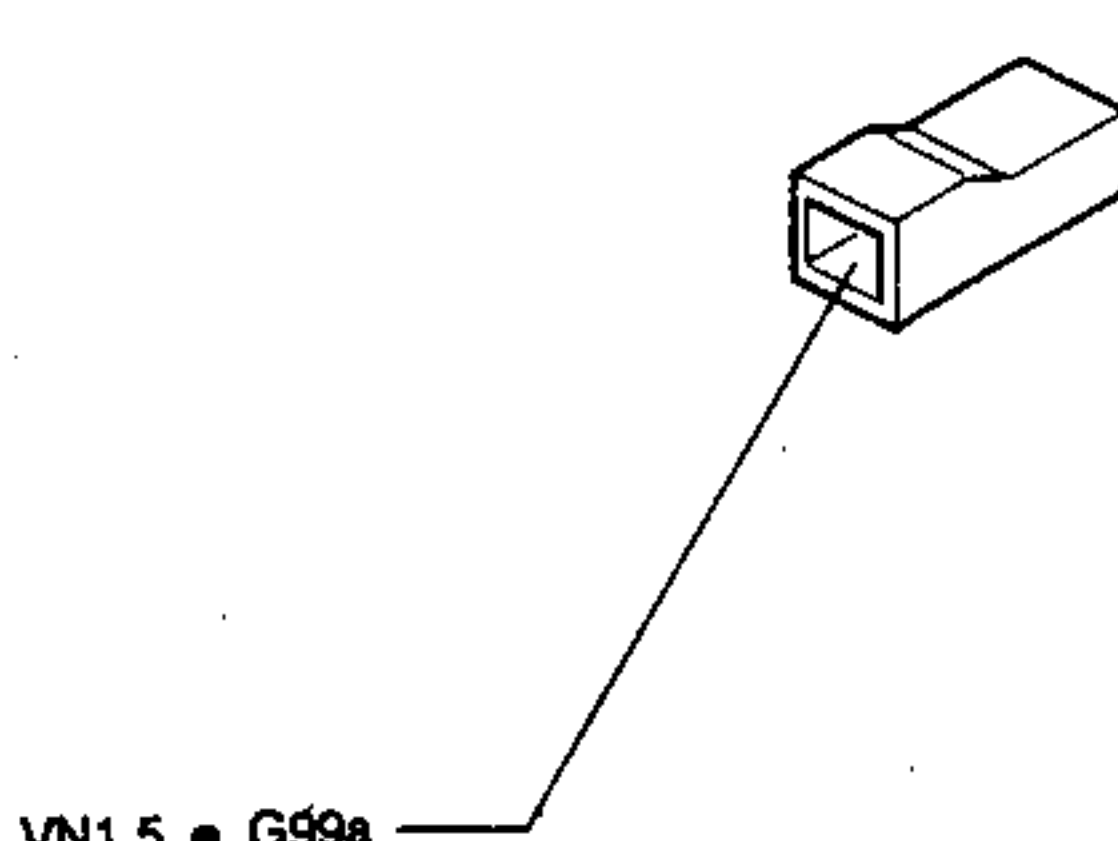
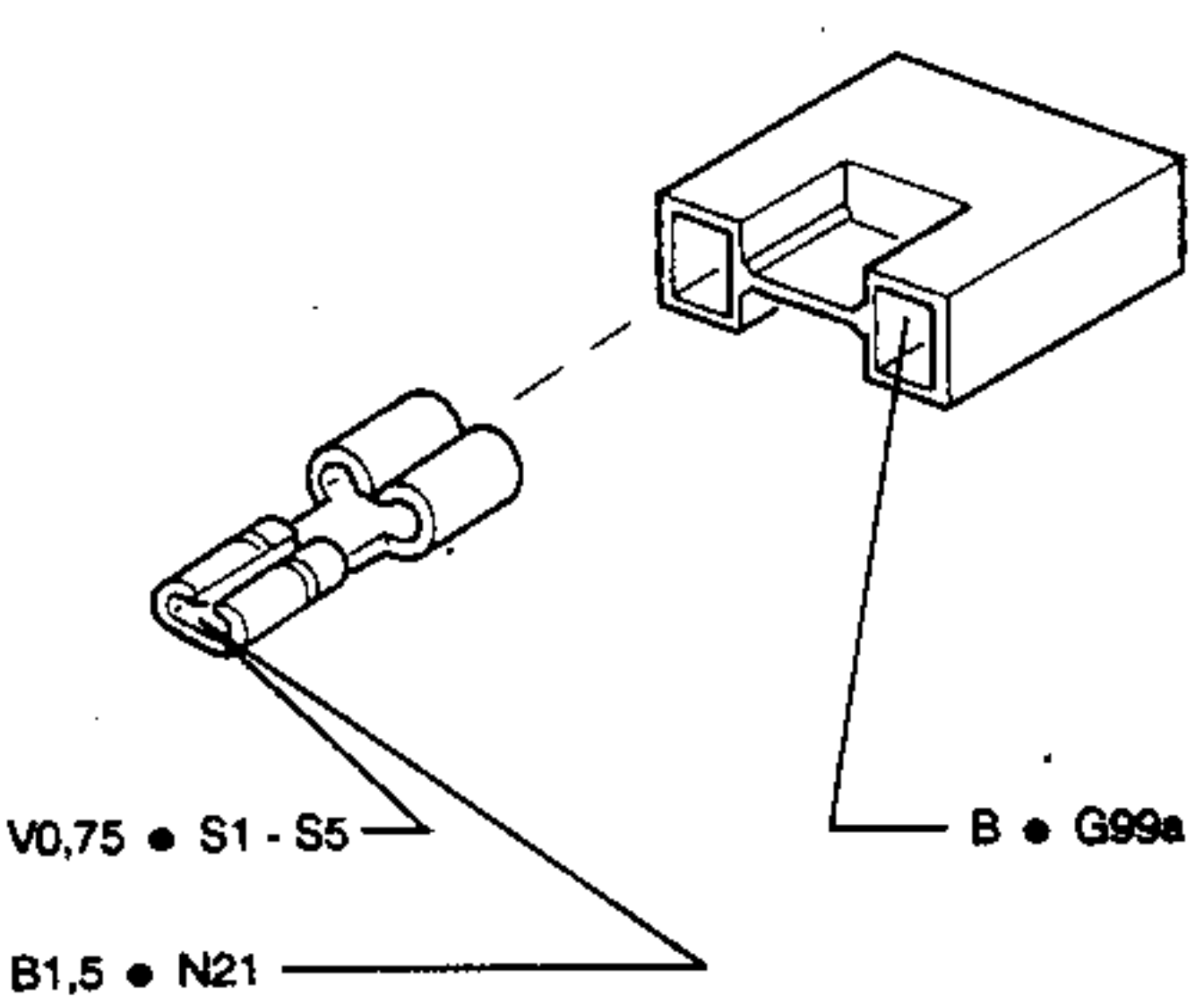


Wiring

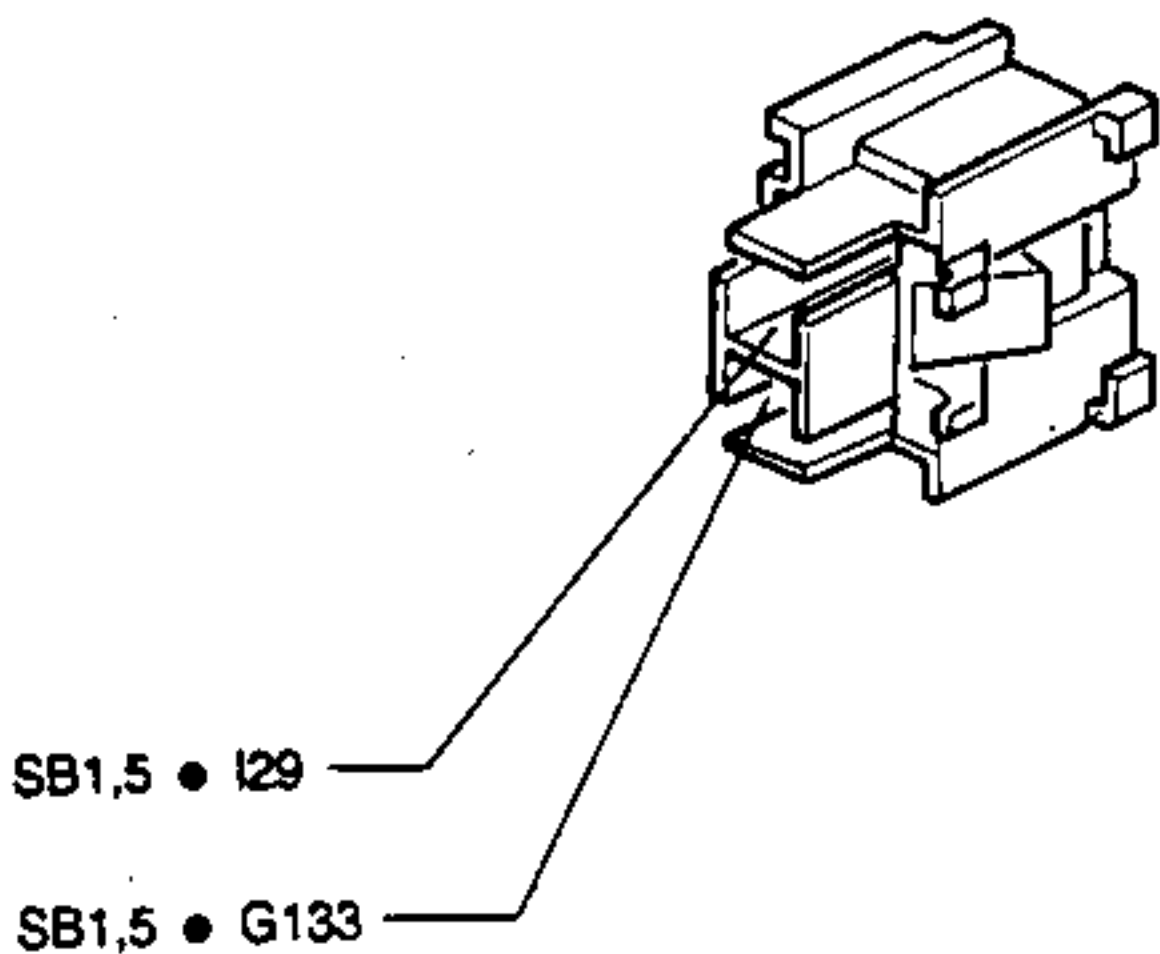
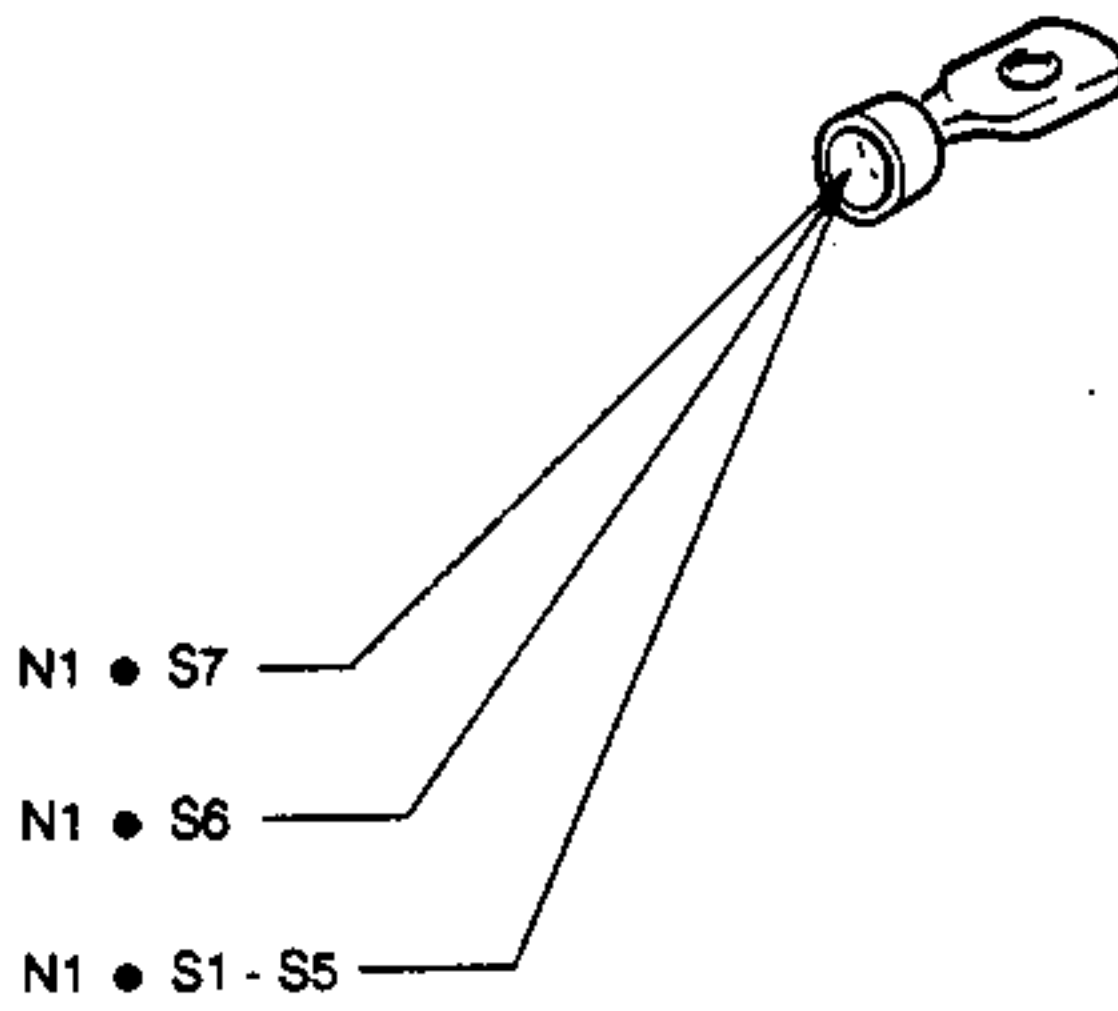
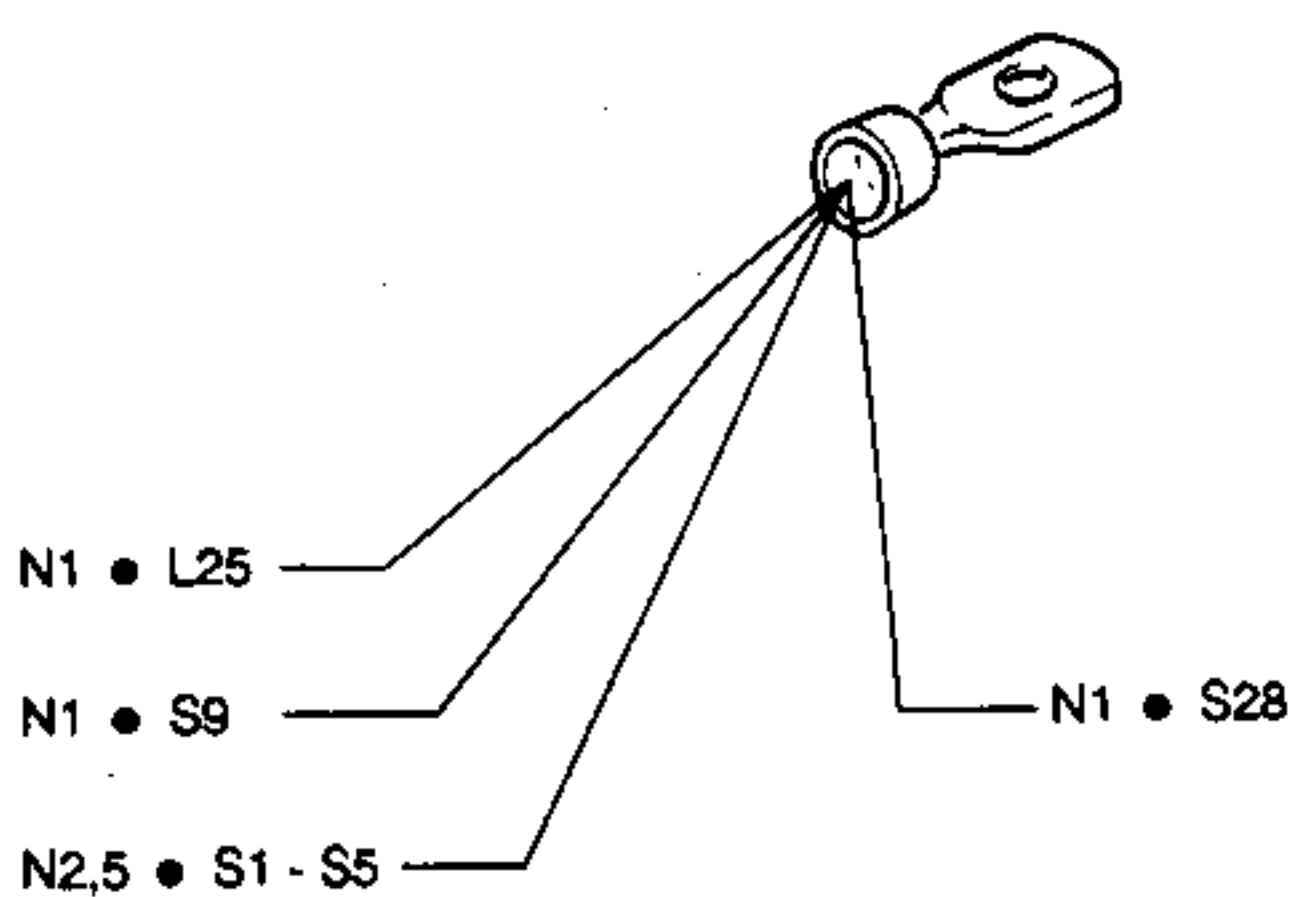
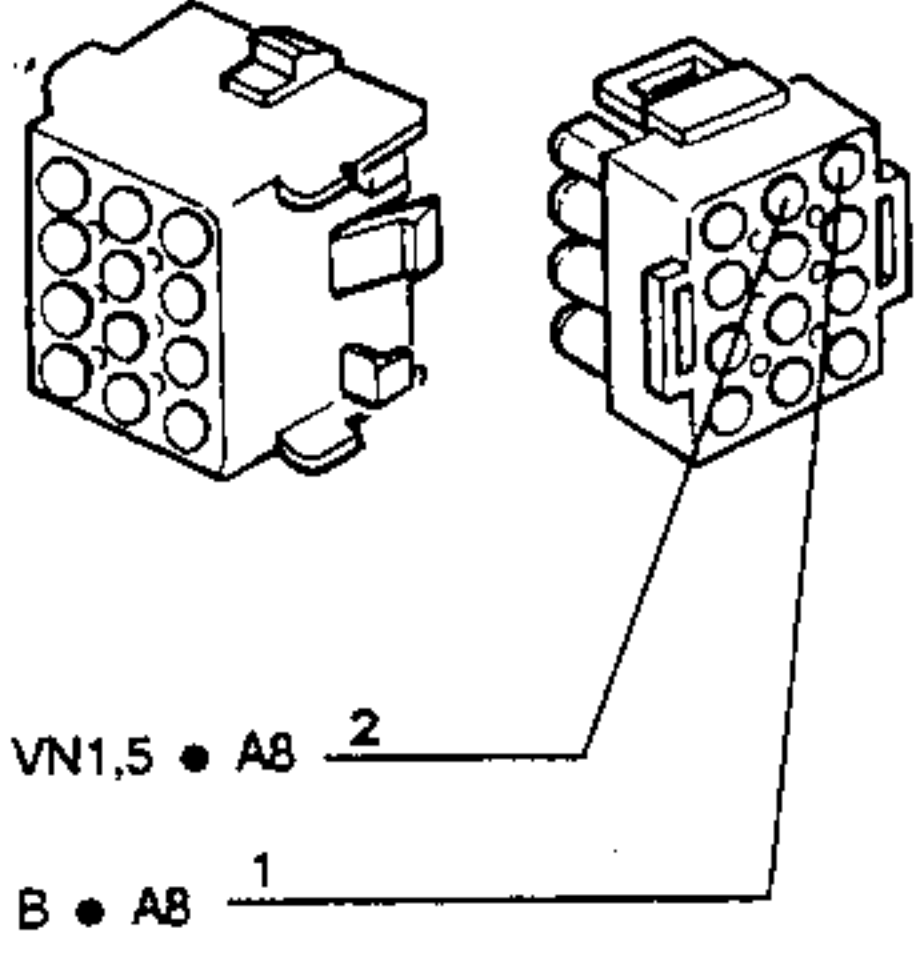
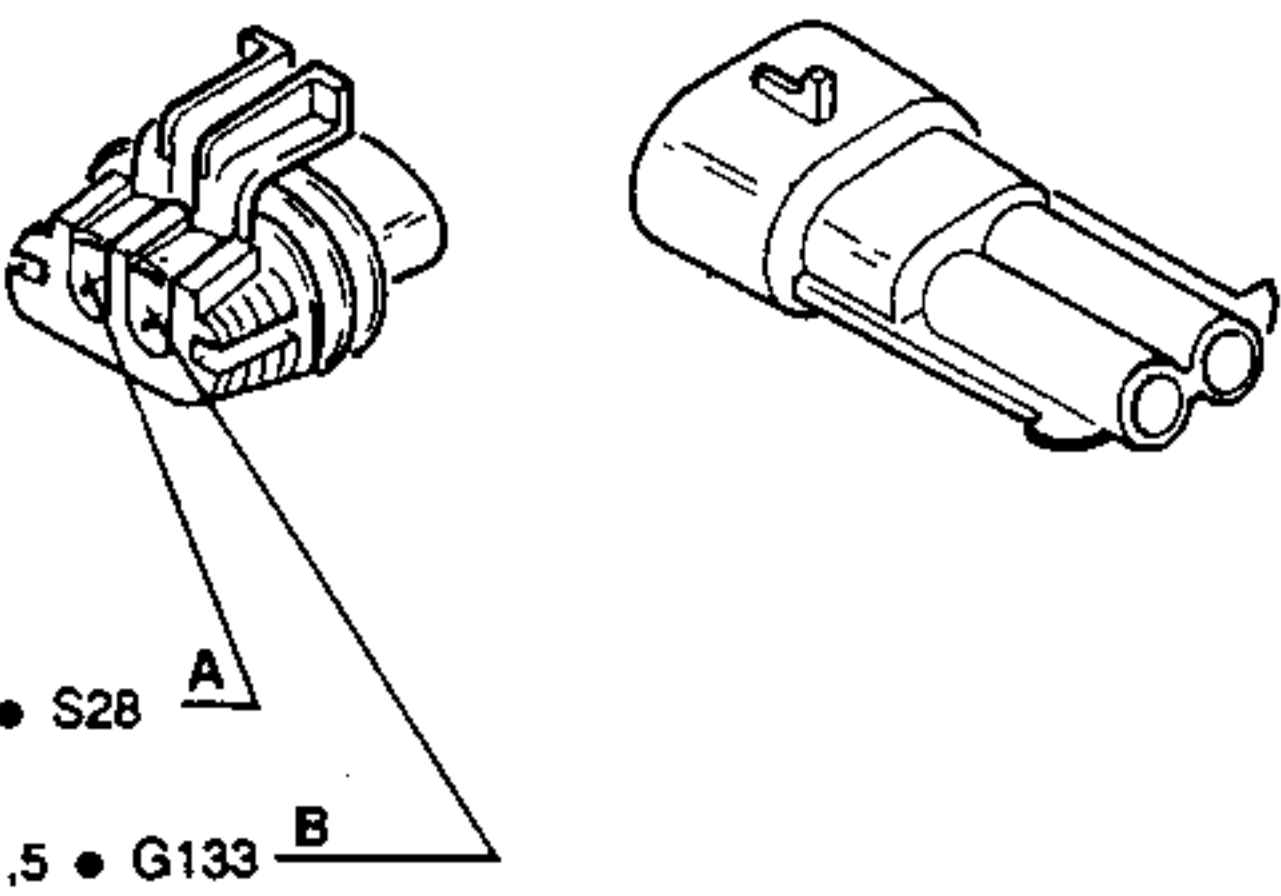
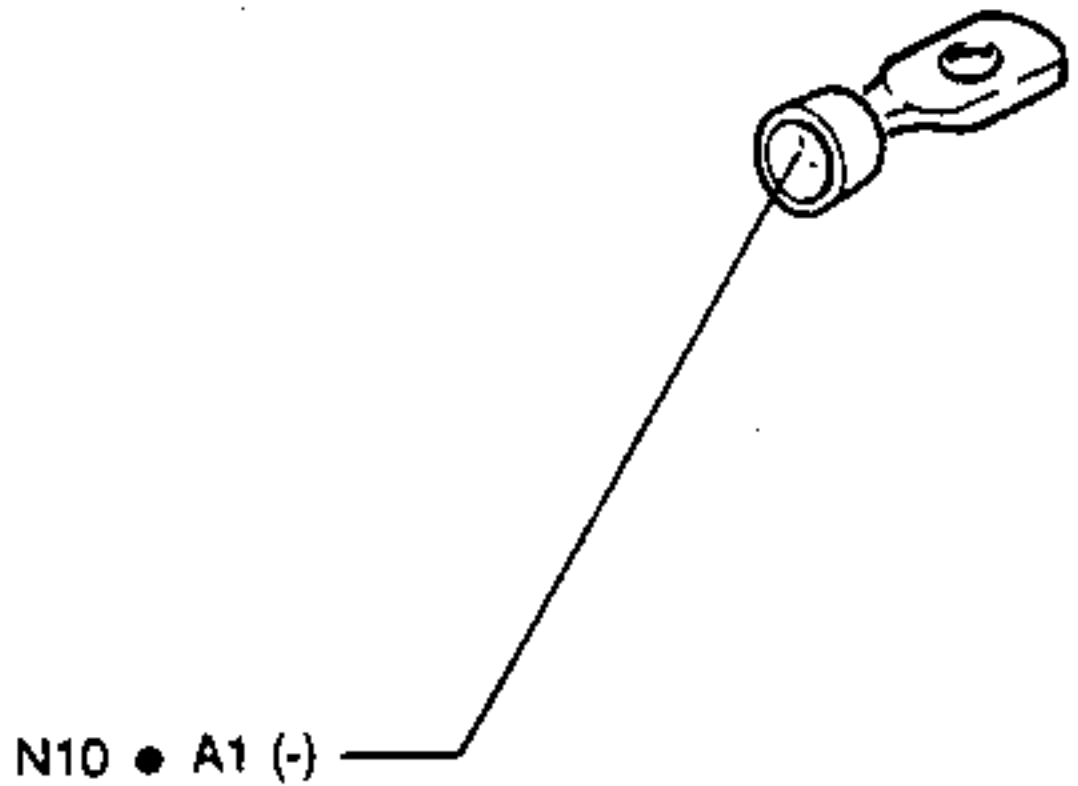


# ELECTRICAL SYSTEM

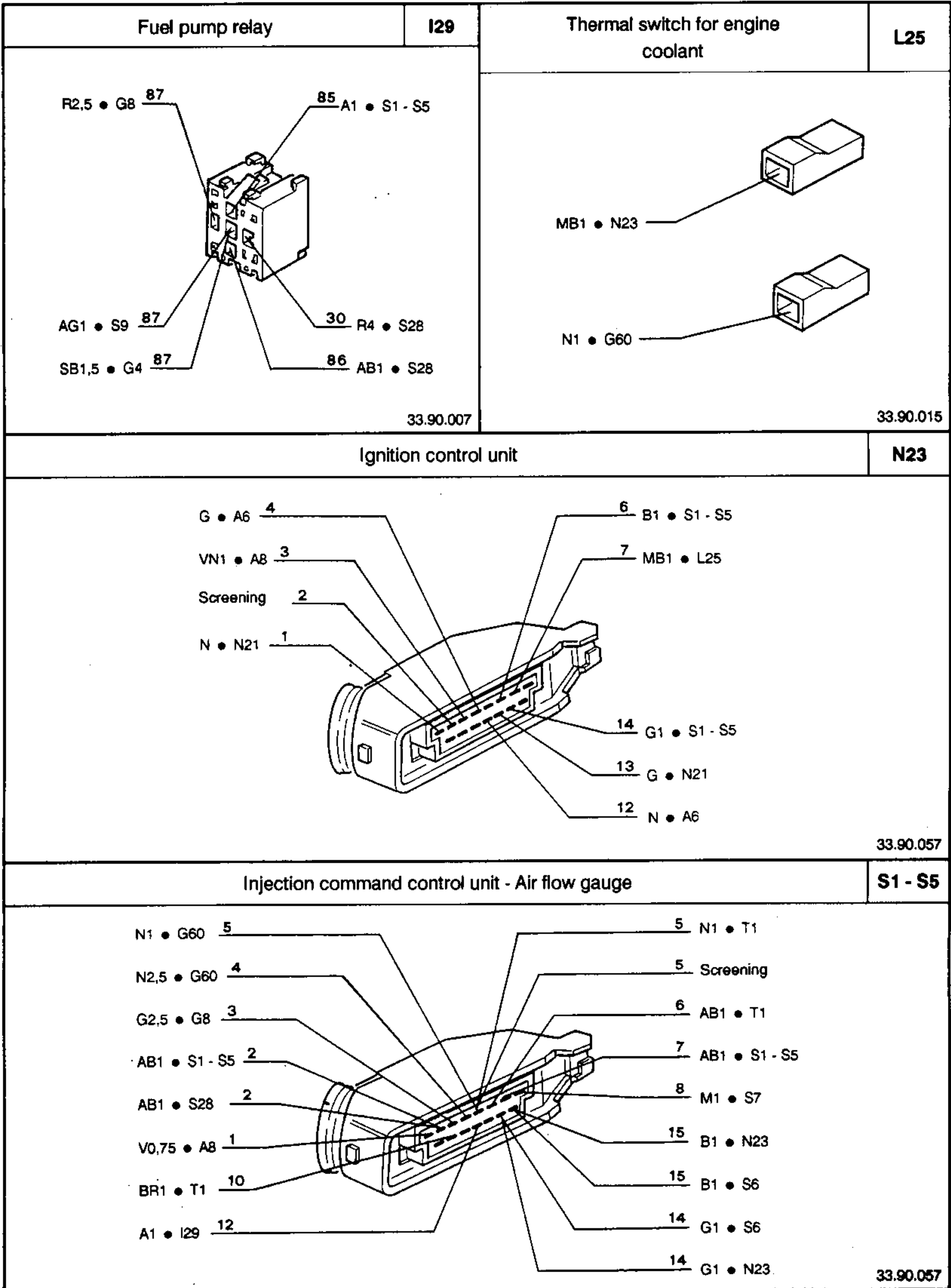
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R4 • S28</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Impulse generator	A6	Ignition coil (15)	A8
 <p>Screening N • N23 G • N23</p>	33.90.058	 <p>VN1 • N23 VN1,5 • N21</p>	33.90.015
Ignition coil (15)	A8	Ignition coil (1)	A8
 <p>VN1,5 • G99a</p>	33.90.015	 <p>V0,75 • S1 - S5 B1,5 • N21 B • G99a</p>	33.90.021 - 33.90.052

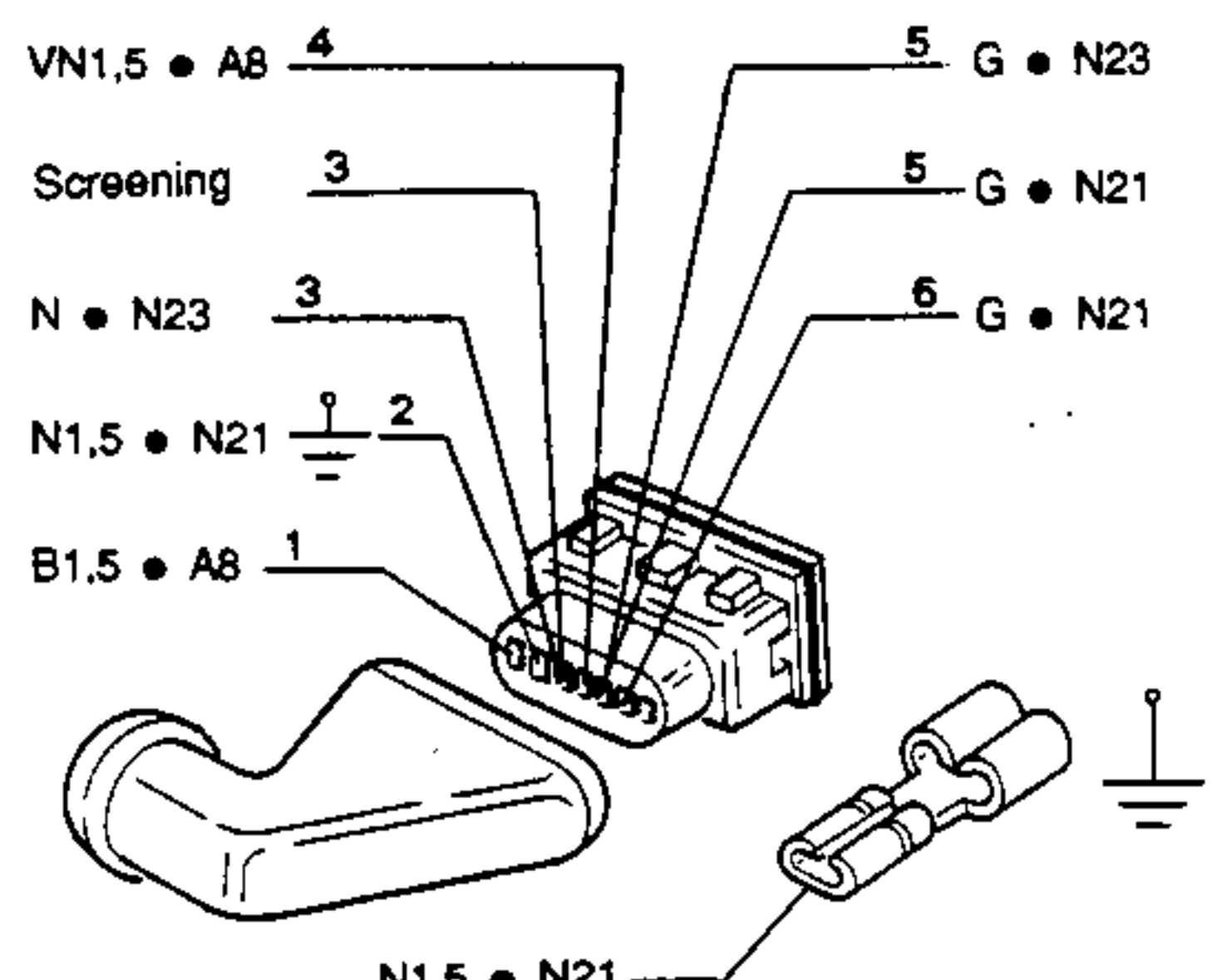
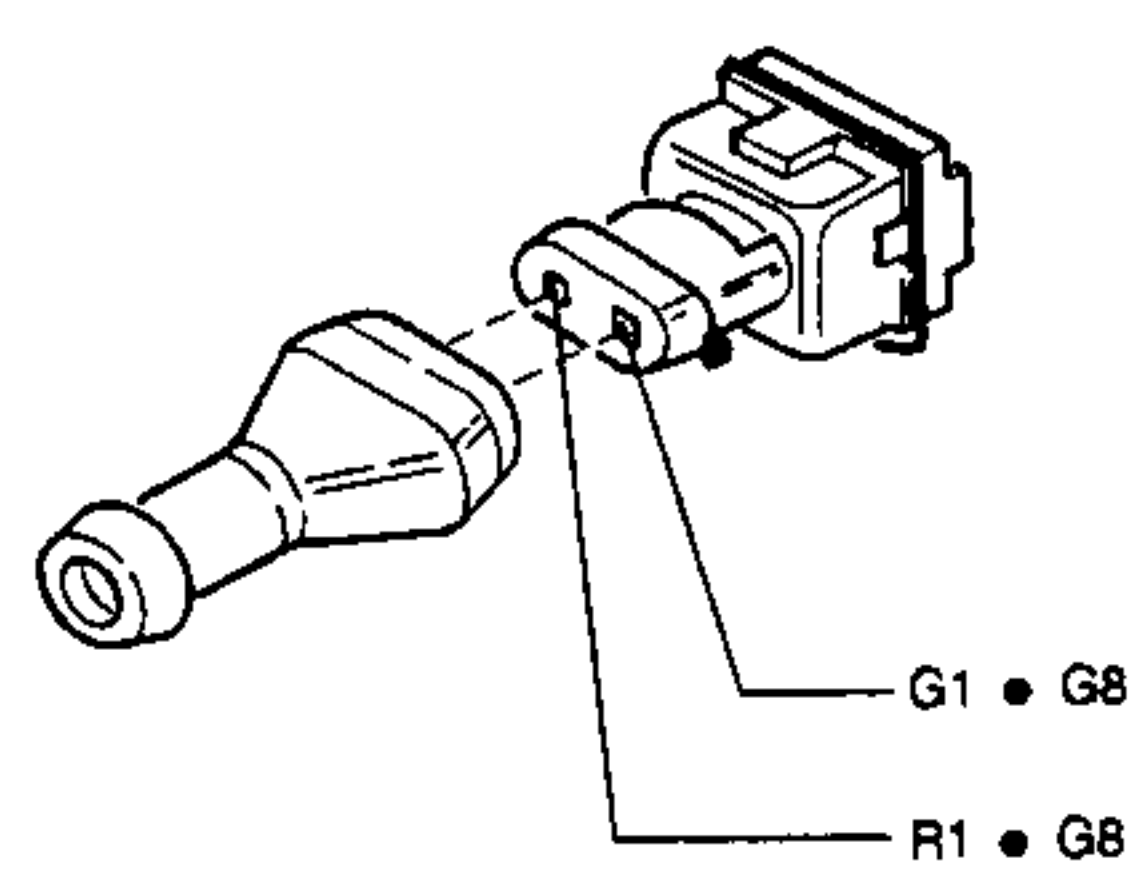
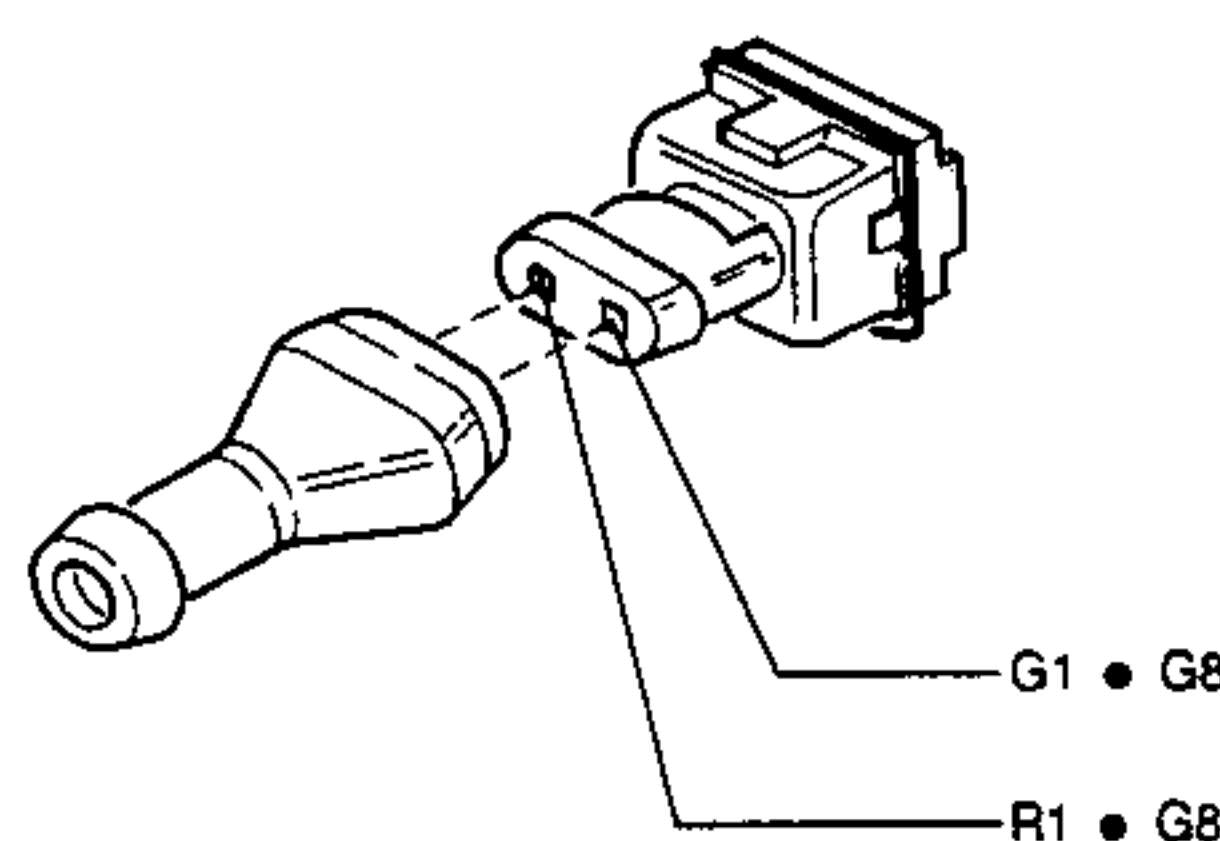
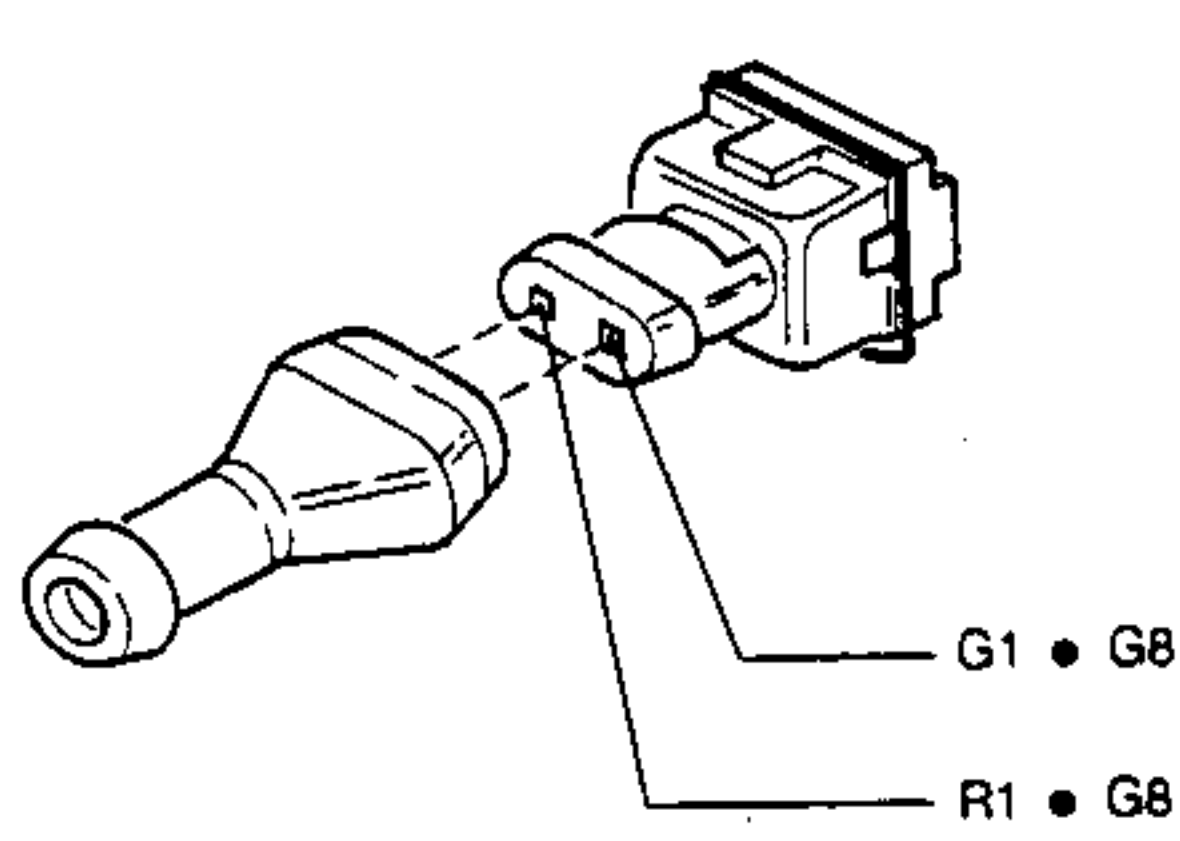
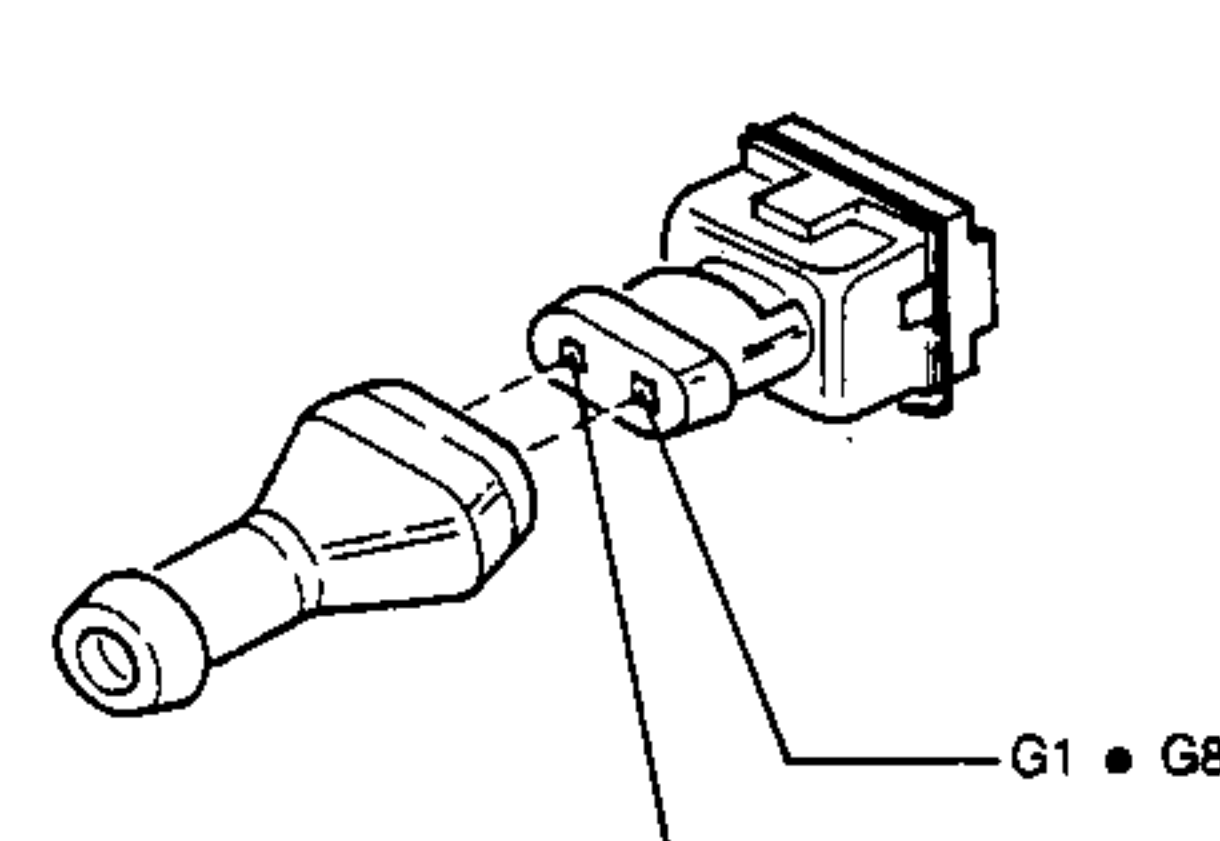
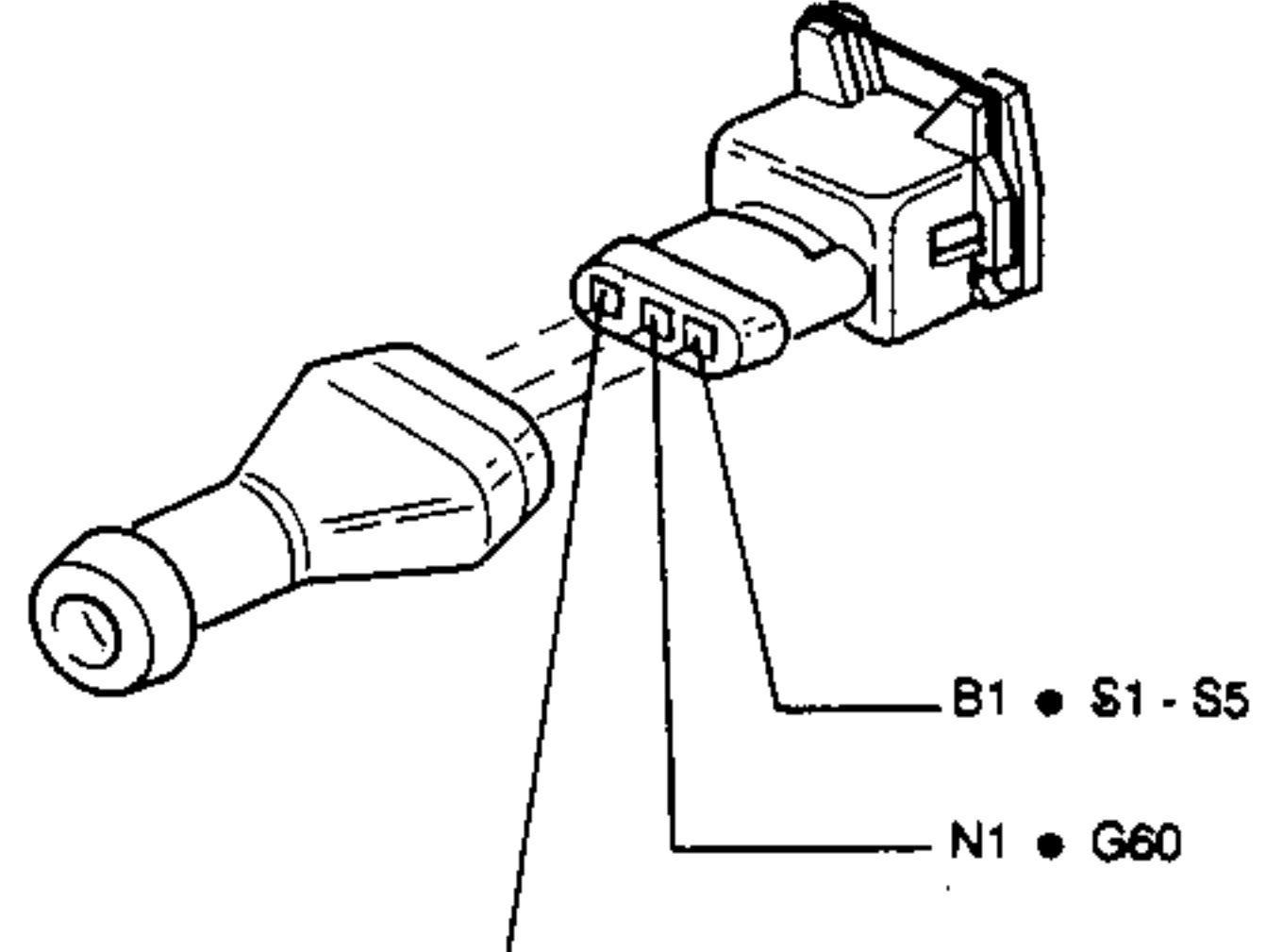
# ELECTRICAL SYSTEM

<p><b>Free fuse</b></p>	<p><b>G4</b></p>	<p><b>Injection wiring earth</b></p>	<p><b>G60</b></p>
 <p>SB1,5 • I29</p> <p>SB1,5 • G133</p>		 <p>N1 • S7</p> <p>N1 • S6</p> <p>N1 • S1 - S5</p>	
<p>33.90.046</p>		<p>33.90.001</p>	
<p><b>Injection wiring earth</b></p>	<p><b>G60</b></p>	<p><b>Connector for engine dashboard A</b></p>	<p><b>G99a</b></p>
 <p>N1 • L25</p> <p>N1 • S9</p> <p>N1 • S28</p> <p>N2,5 • S1 - S5</p>		 <p>VN1,5 • A8 2</p> <p>B • A8 1</p>	
<p>33.90.001</p>		<p>33.90.016</p>	
<p><b>Ignition - electronic injection wiring connection</b></p>	<p><b>G133</b></p>	<p><b>Central service compartment earth</b></p>	<p><b>G143</b></p>
 <p>S1 • S28 A</p> <p>SB1,5 • G133 B</p>		 <p>N10 • A1 (-)</p>	
<p>33.90.055</p>		<p>33.90.001</p>	

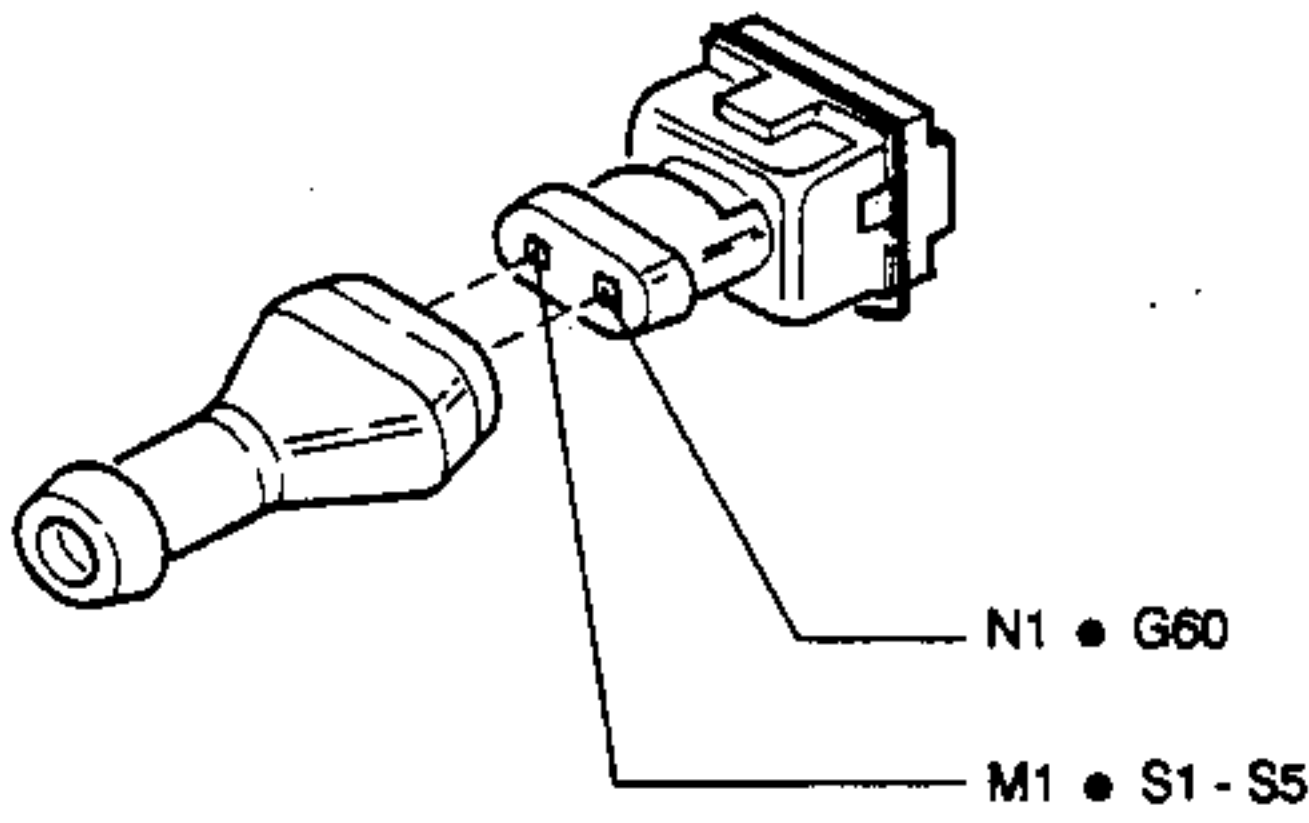
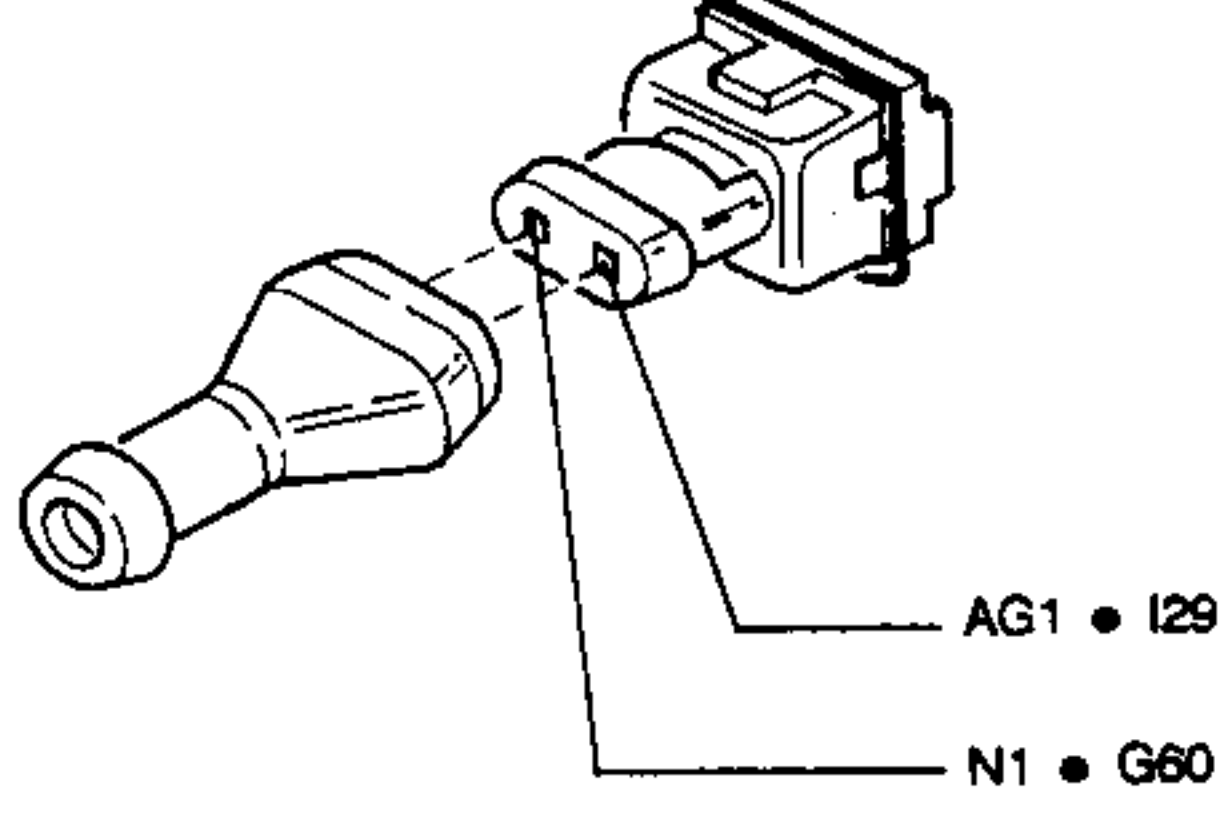
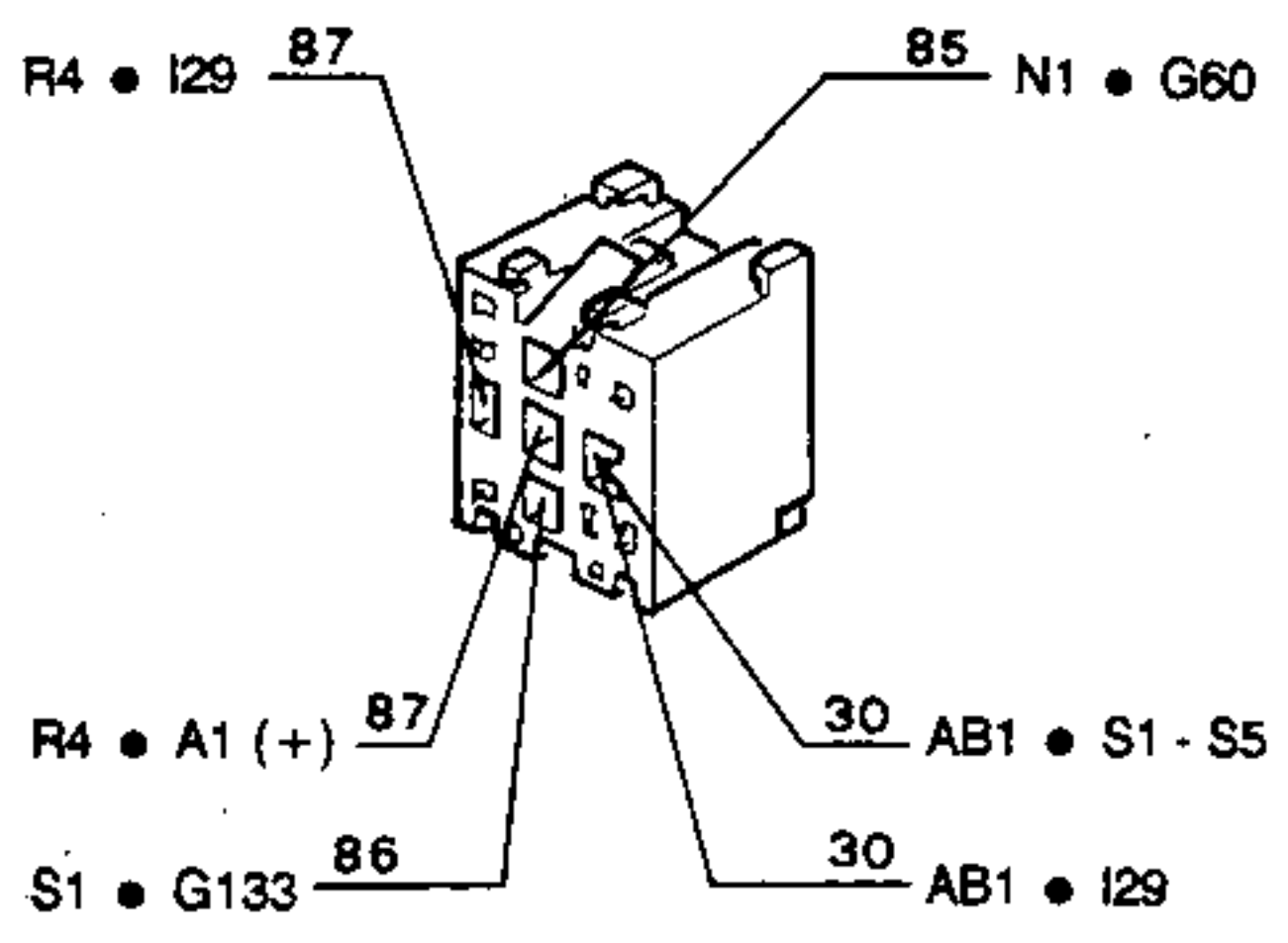
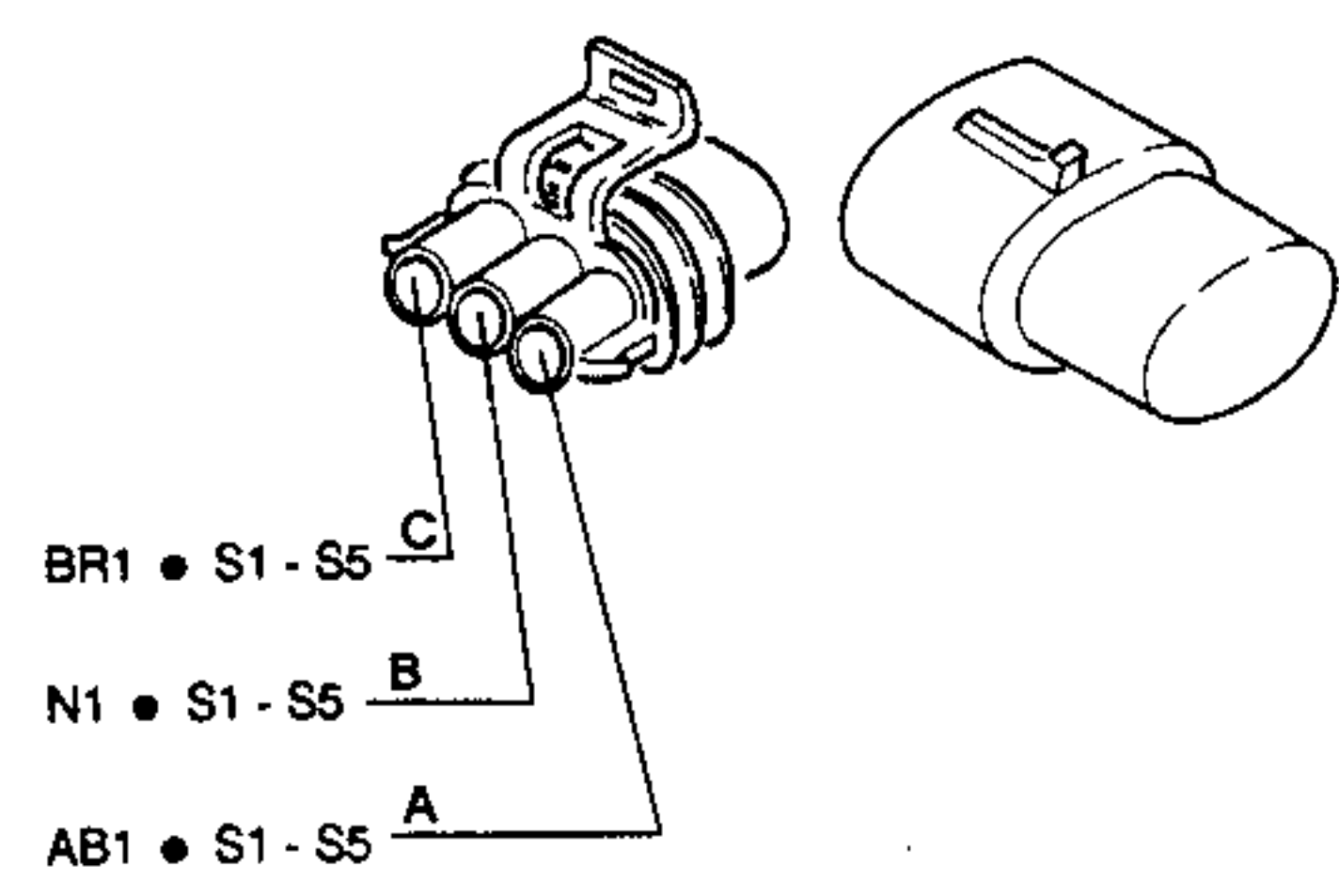
# ELECTRICAL SYSTEM



ELECTRICAL SYSTEM

<p>Power module</p>	<p>N21</p>	<p>Electroinejcor 1</p>	<p>S3</p>
 <p>VN1,5 • A8 4</p> <p>Screening 3</p> <p>N • N23 3</p> <p>N1,5 • N21 2</p> <p>B1,5 • A8 1</p> <p>5 G • N23</p> <p>5 G • N21</p> <p>6 G • N21</p> <p>N1,5 • N21</p> <p>33.90.021 - 33.90.056</p>		 <p>G1 • G8</p> <p>R1 • G8</p> <p>33.90.047</p>	
<p>Electroinjetor 2</p>	<p>S3</p>	<p>Electroinjetor 3</p>	<p>S3</p>
 <p>G1 • G8</p> <p>R1 • G8</p> <p>33.90.047</p>		 <p>G1 • G8</p> <p>R1 • G8</p> <p>33.90.047</p>	
<p>Electroinjetor 4</p>	<p>S3</p>	<p>Accelerator butterfly switch</p>	<p>S6</p>
 <p>G1 • G8</p> <p>R1 • G8</p> <p>33.90.047</p>		 <p>B1 • S1 - S5</p> <p>N1 • G60</p> <p>G1 • S1 - S5</p> <p>33.90.049</p>	

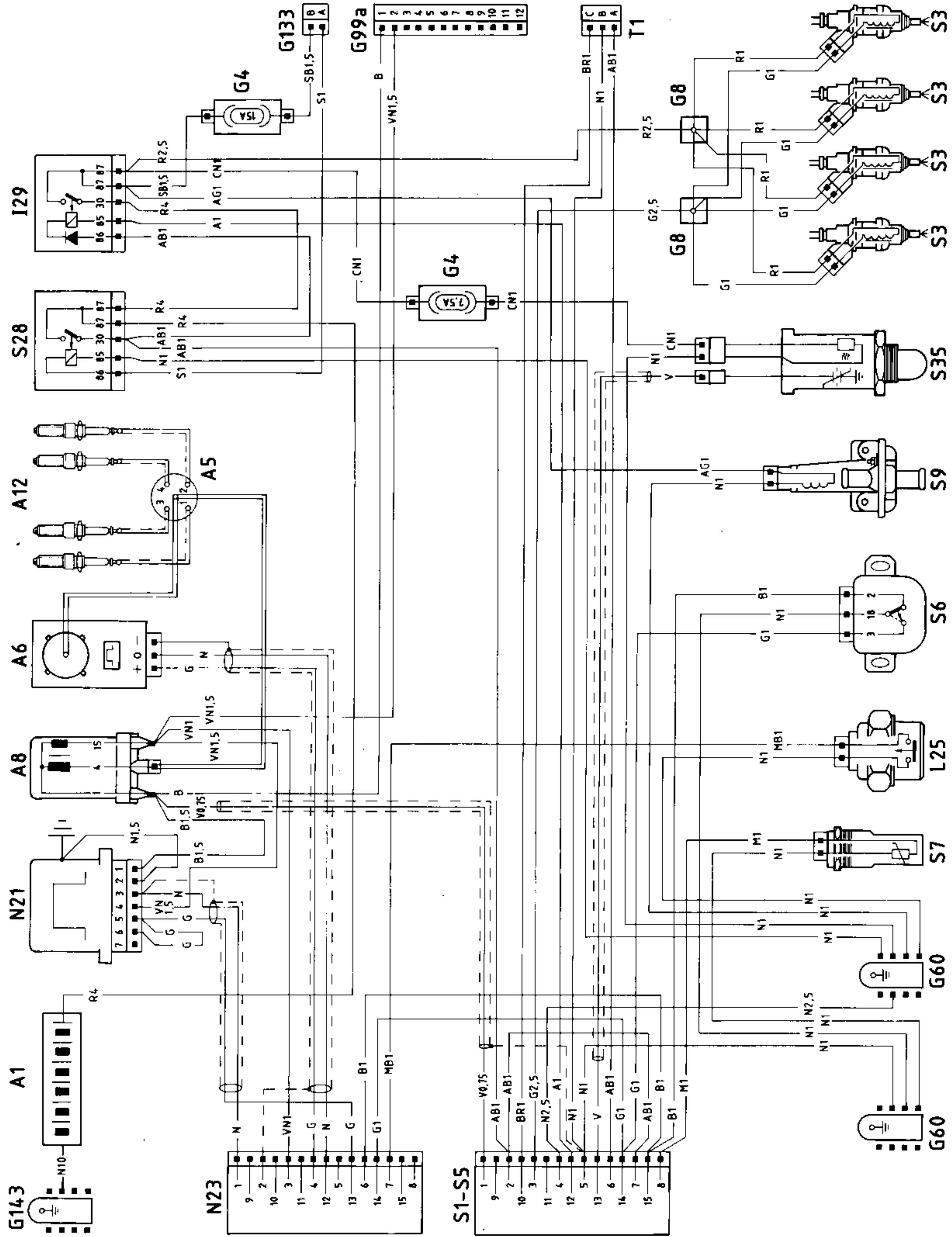
# ELECTRICAL SYSTEM

<p><b>Engine coolant temperature sensor</b></p> <p style="text-align: right;"><b>S7</b></p>  <p style="text-align: right;">N1 • G60 M1 • S1 - S5</p> <p style="text-align: right;">33.90.047</p>	<p><b>Auxiliary air valve</b></p> <p style="text-align: right;"><b>S9</b></p>  <p style="text-align: right;">AG1 • I29 N1 • G60</p> <p style="text-align: right;">33.90.047</p>
<p><b>Injection control relay</b></p> <p style="text-align: right;"><b>S28</b></p>  <p style="text-align: right;">R4 • I29 87 R4 • A1 (+) 87 S1 • G133 86 85 N1 • G60 30 AB1 • S1 - S5 30 AB1 • I29</p> <p style="text-align: right;">33.90.007</p>	<p><b>Connector for Alfa Tester</b></p> <p style="text-align: right;"><b>T1</b></p>  <p style="text-align: right;">BR1 • S1 - S5 C N1 • S1 - S5 B AB1 • S1 - S5 A</p> <p style="text-align: right;">33.90.029 - 33.90.040</p>

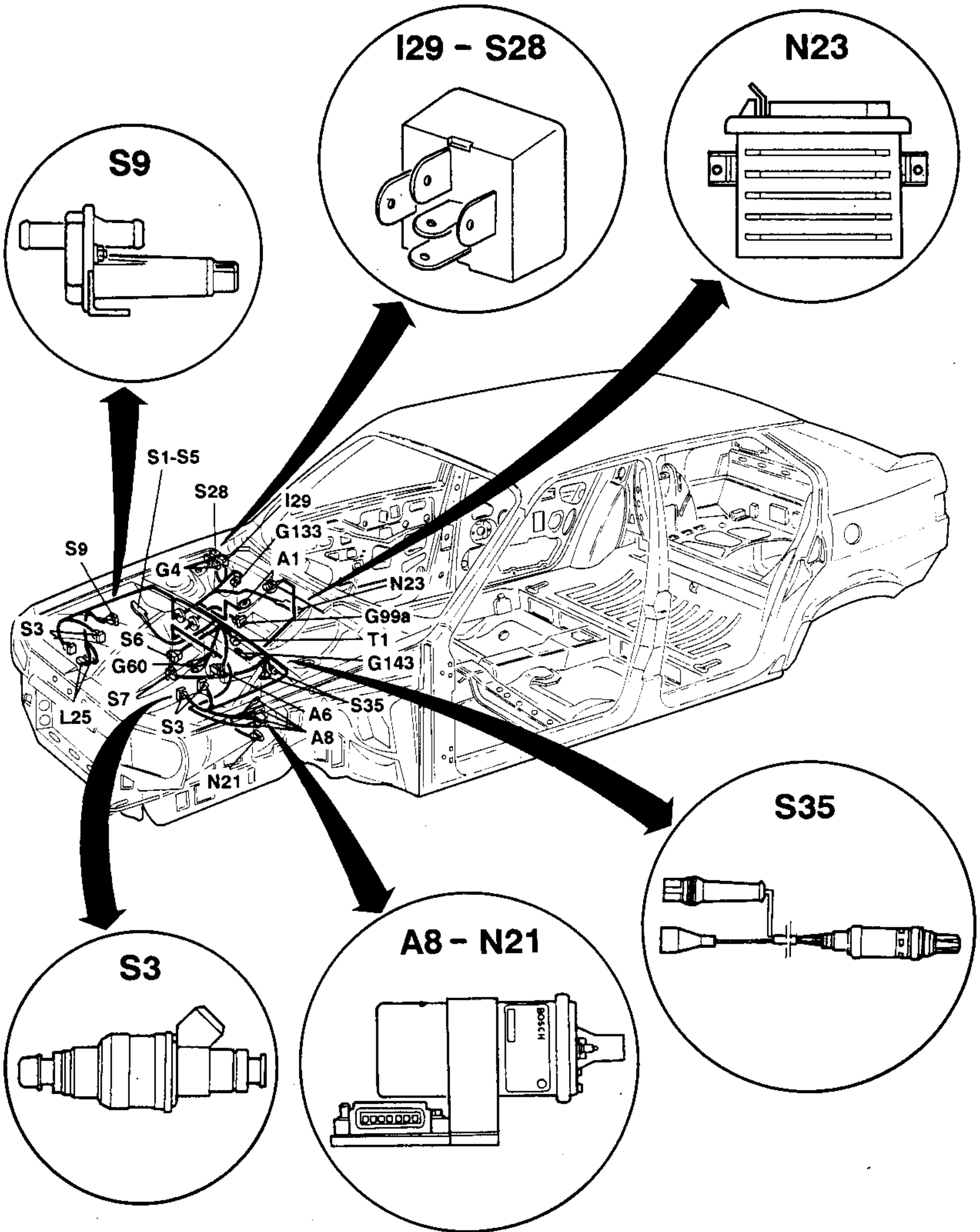


IGNITION - INJECTION LE3 JETRONIC (Diagram A)  
33 1.7 IE - 33 1.7 IE 4 x 4 - (with catalytic converter)

Wiring diagram

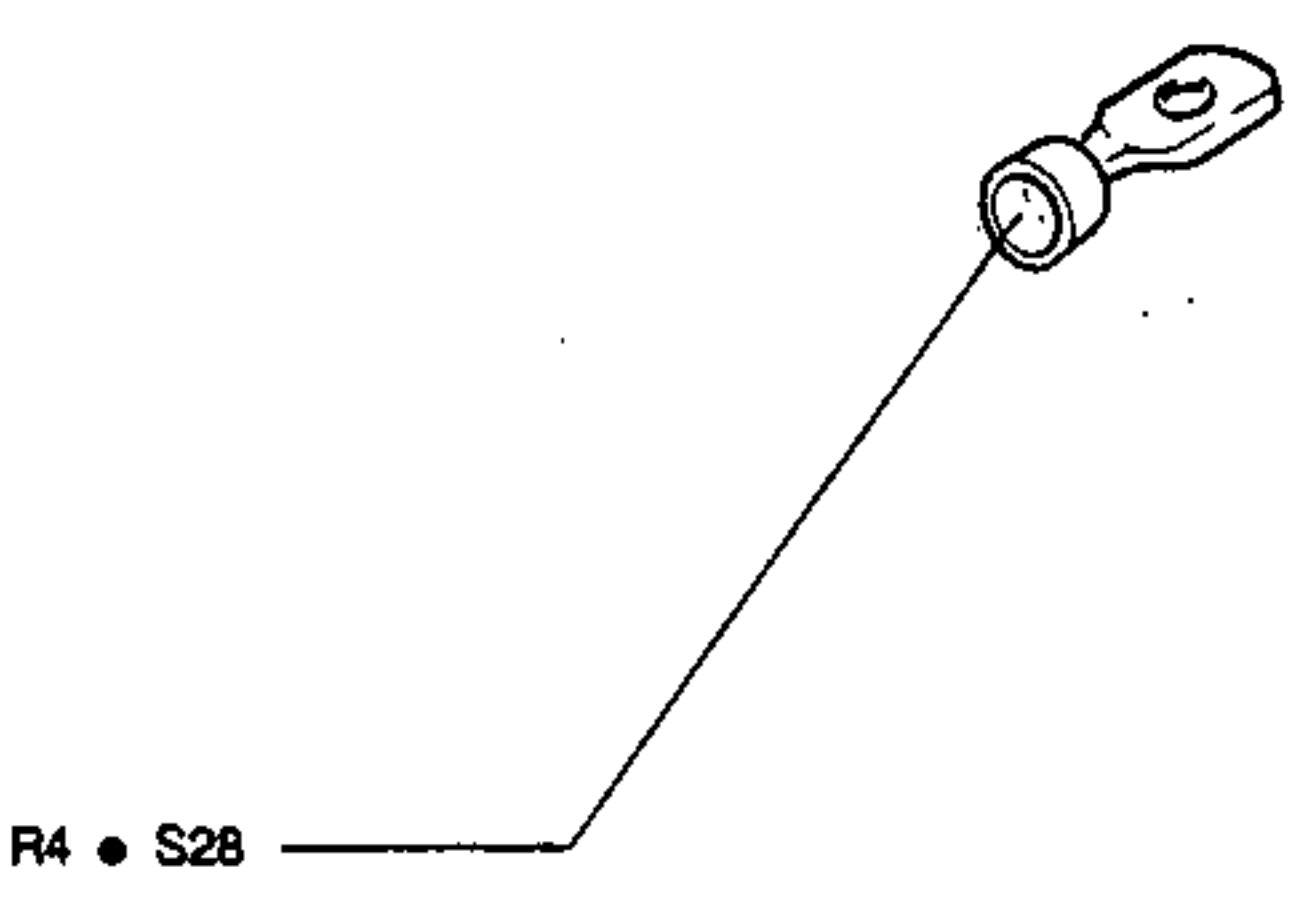
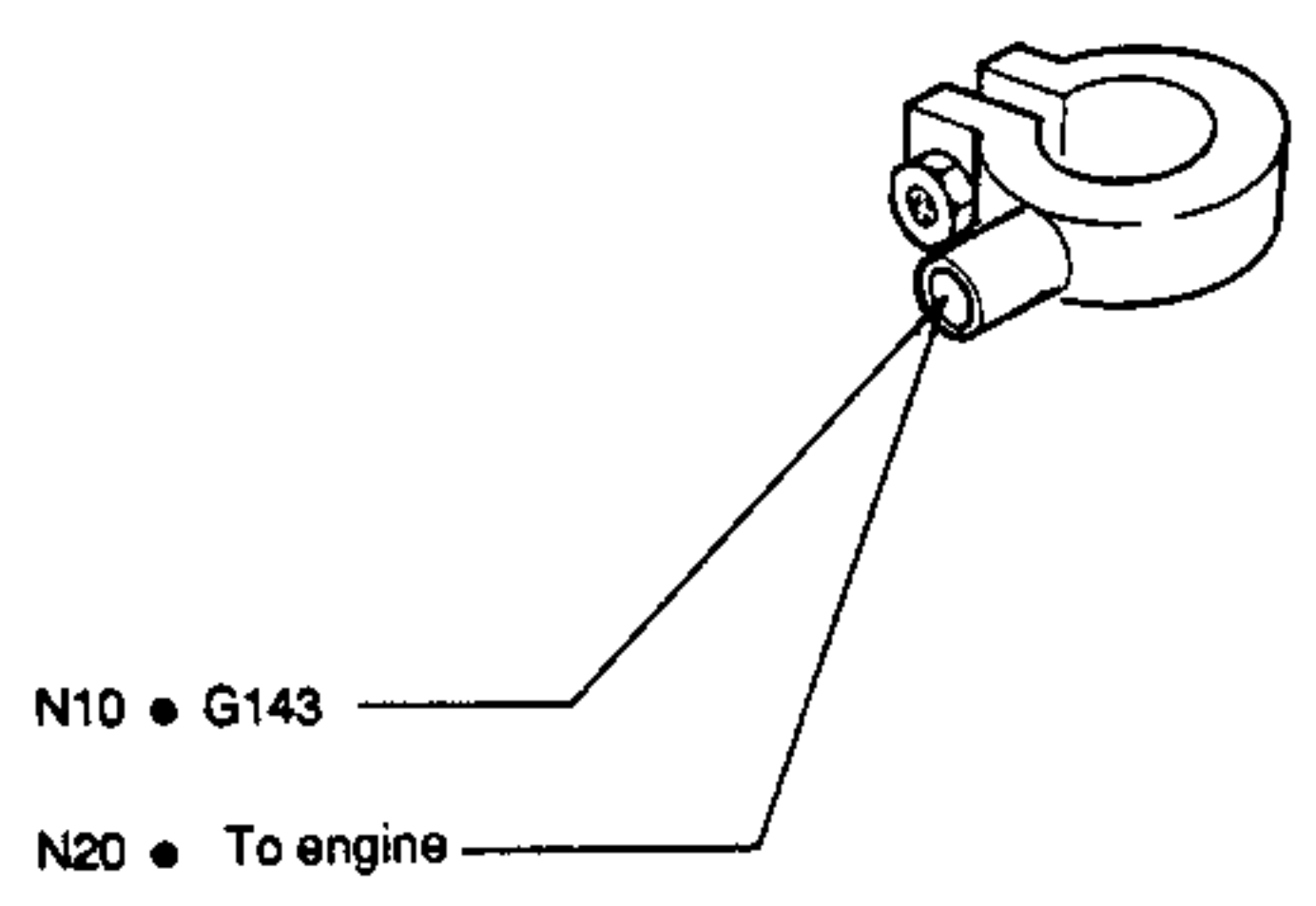
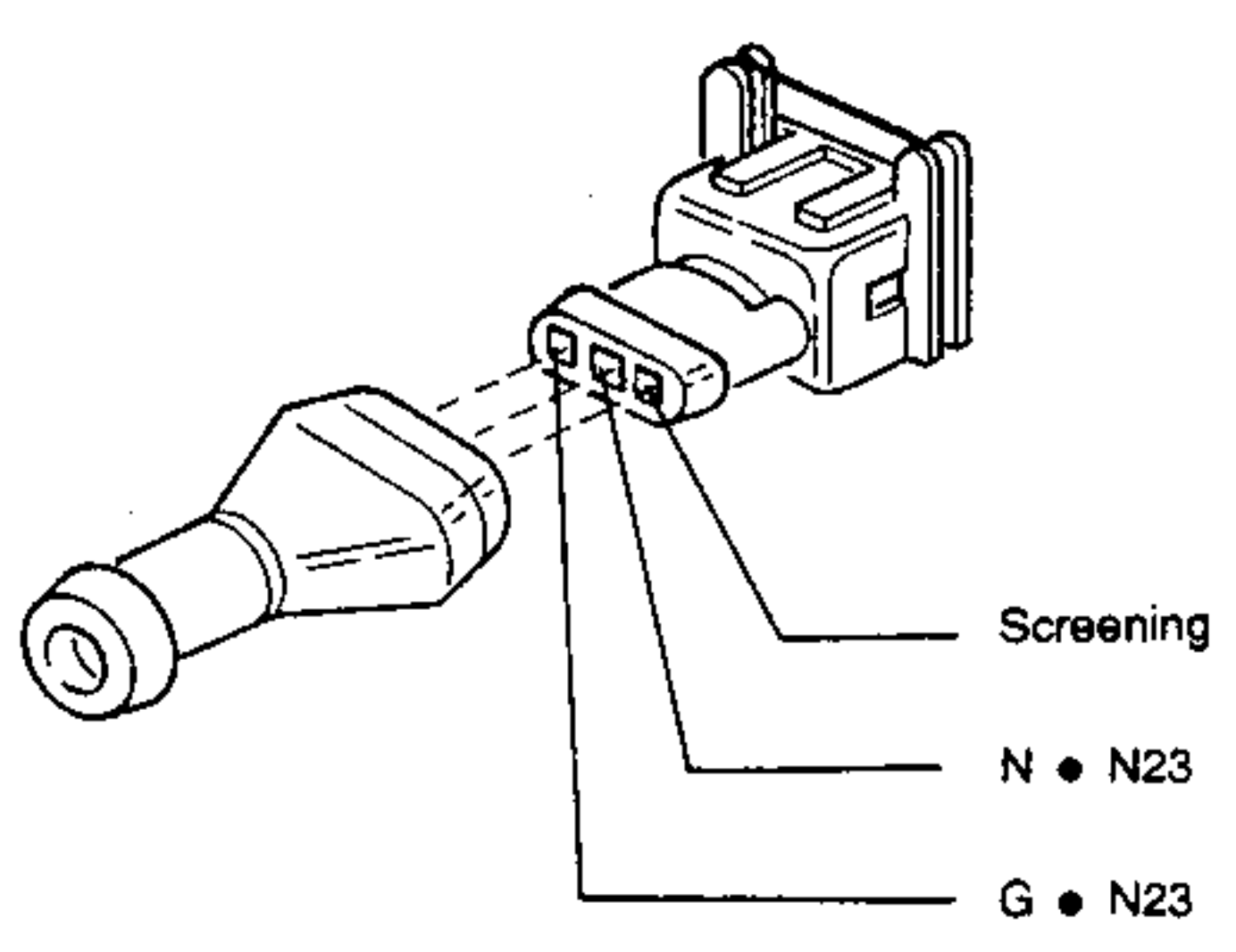
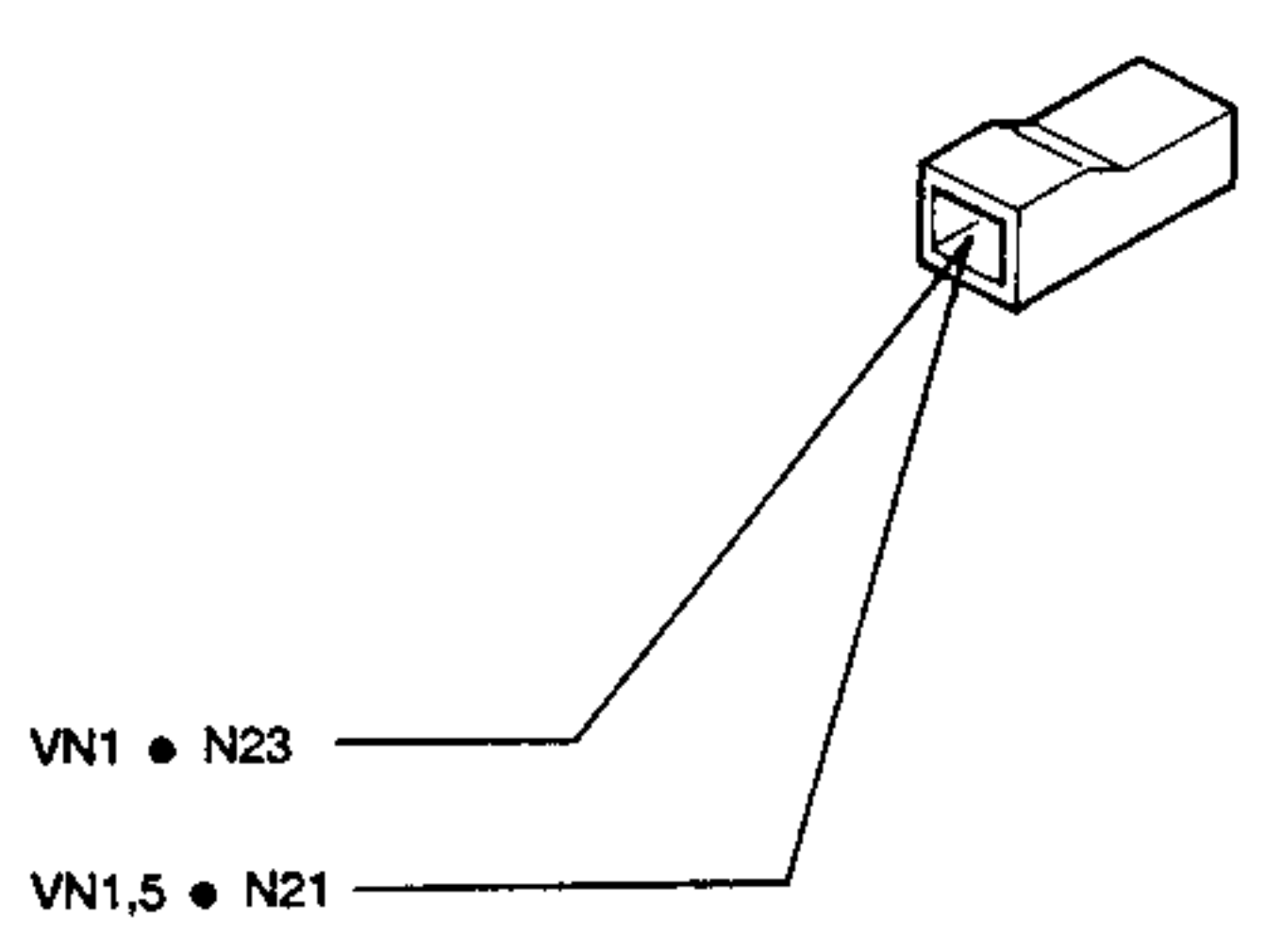
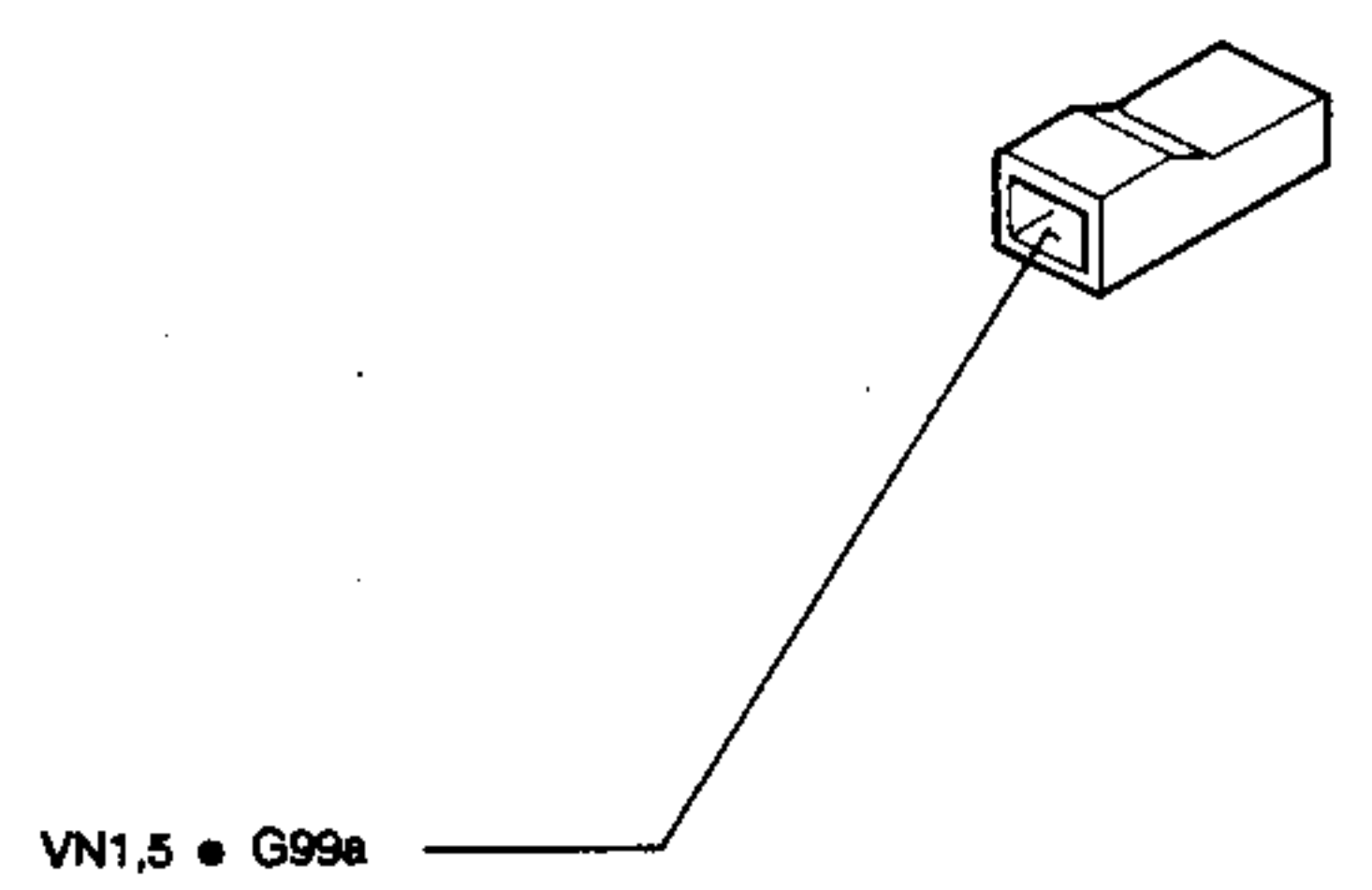
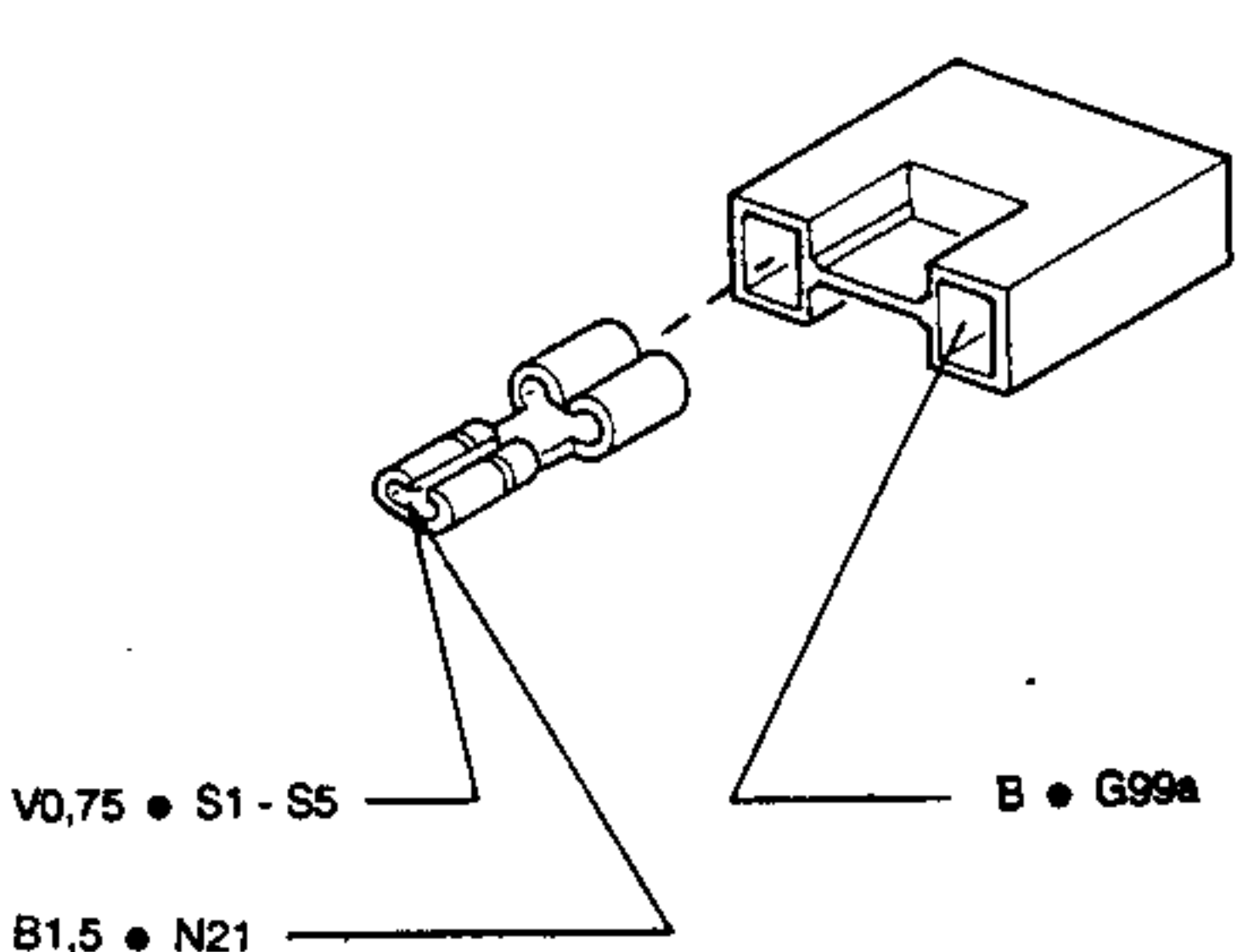


Wiring

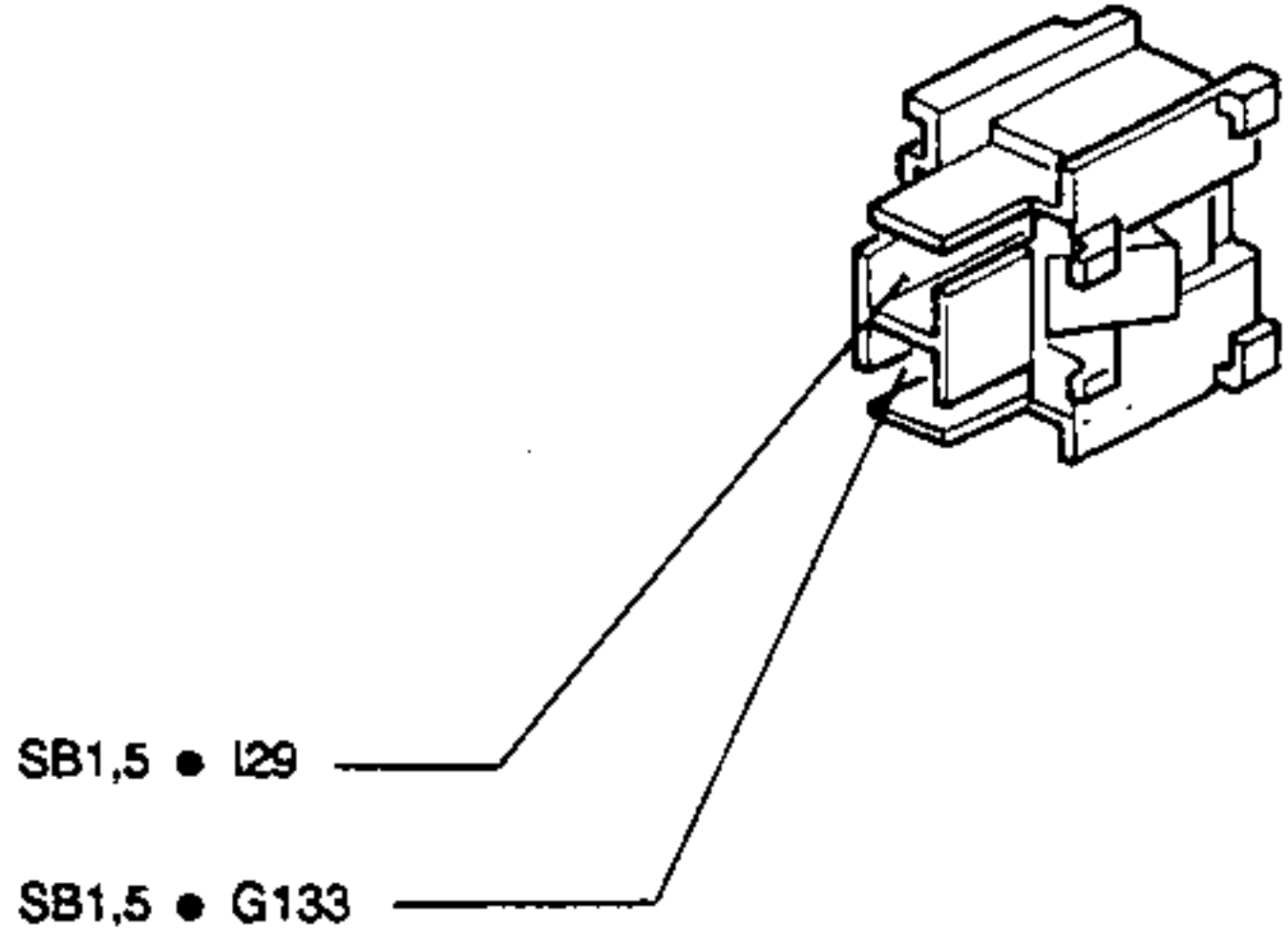
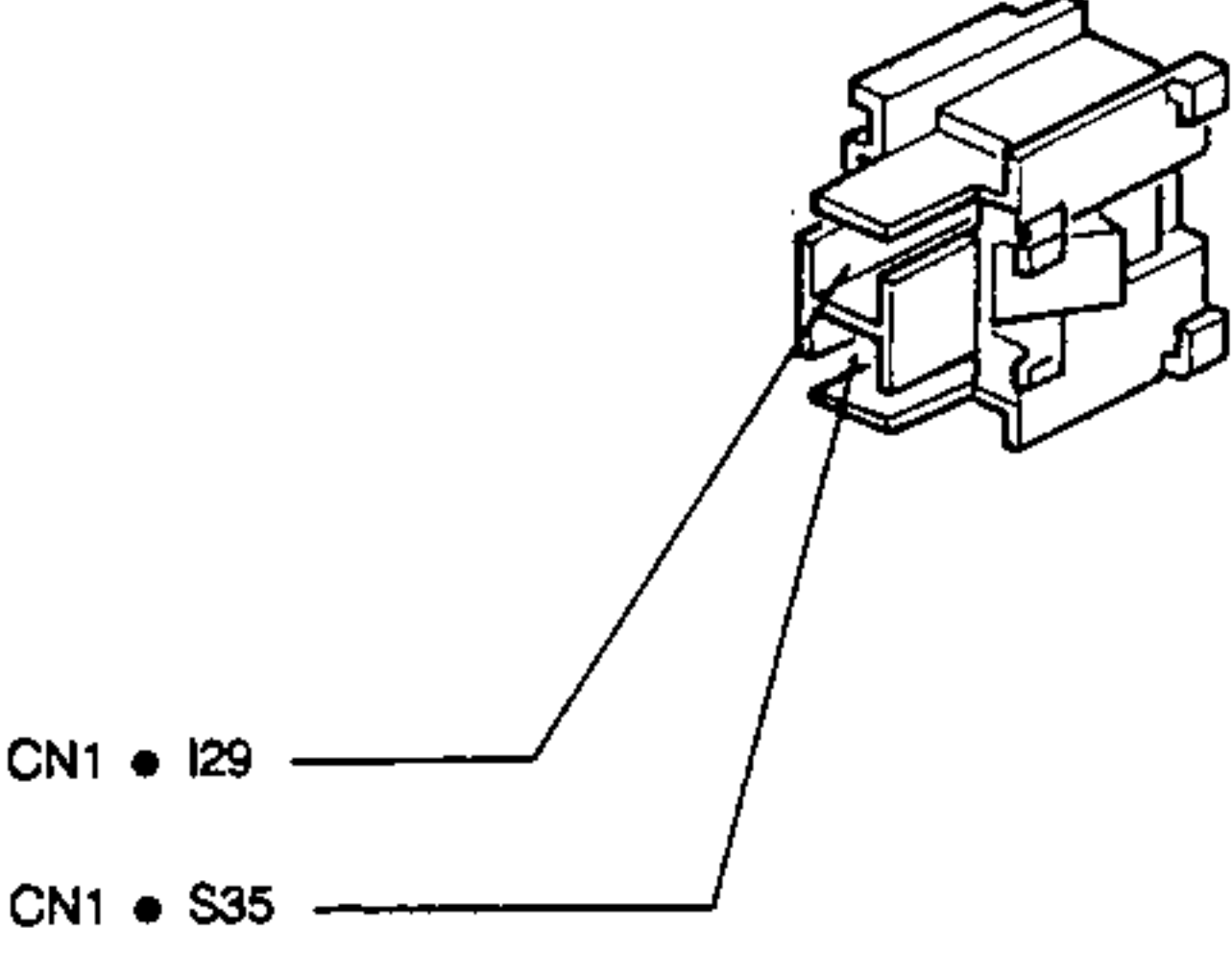
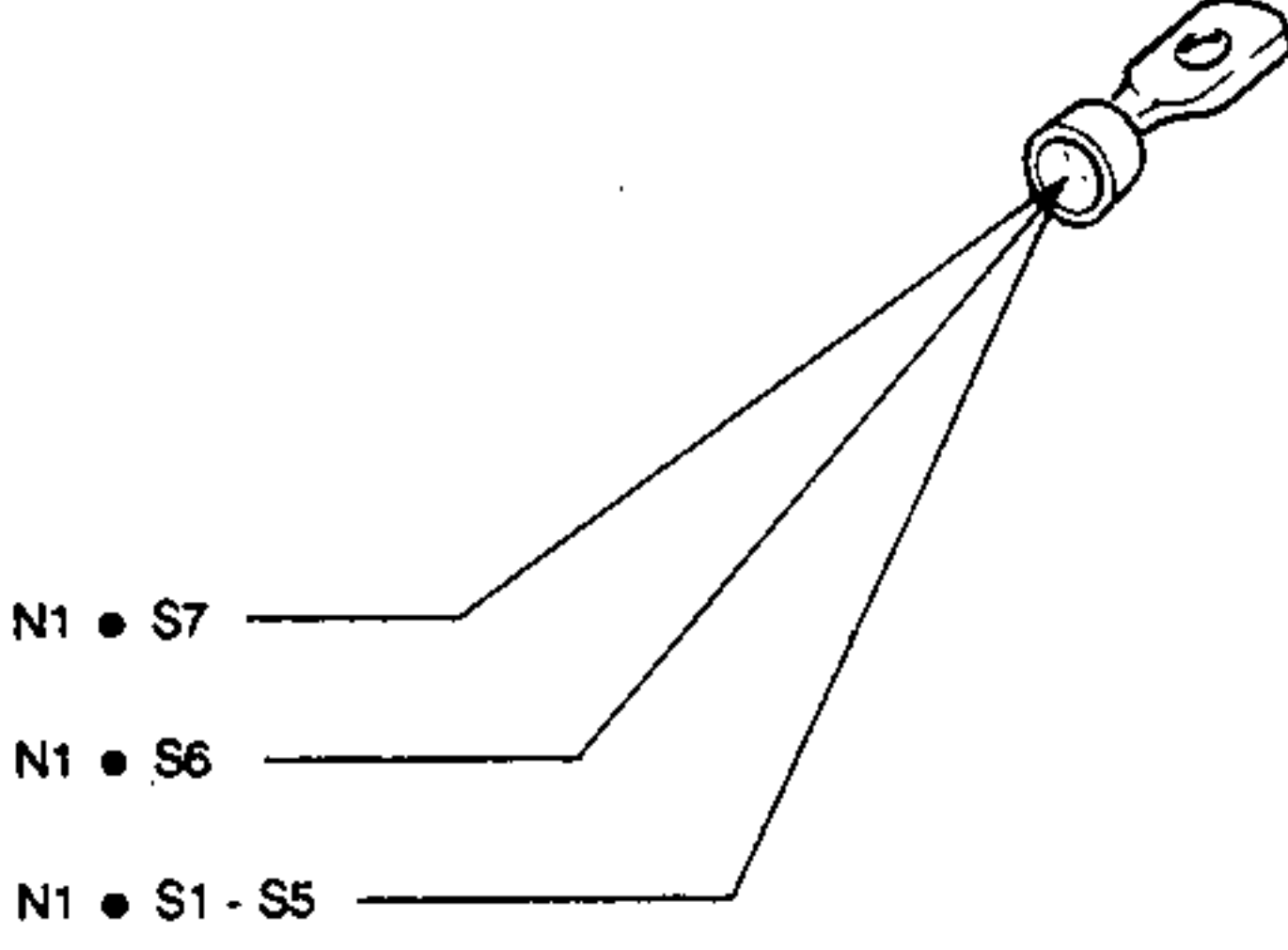
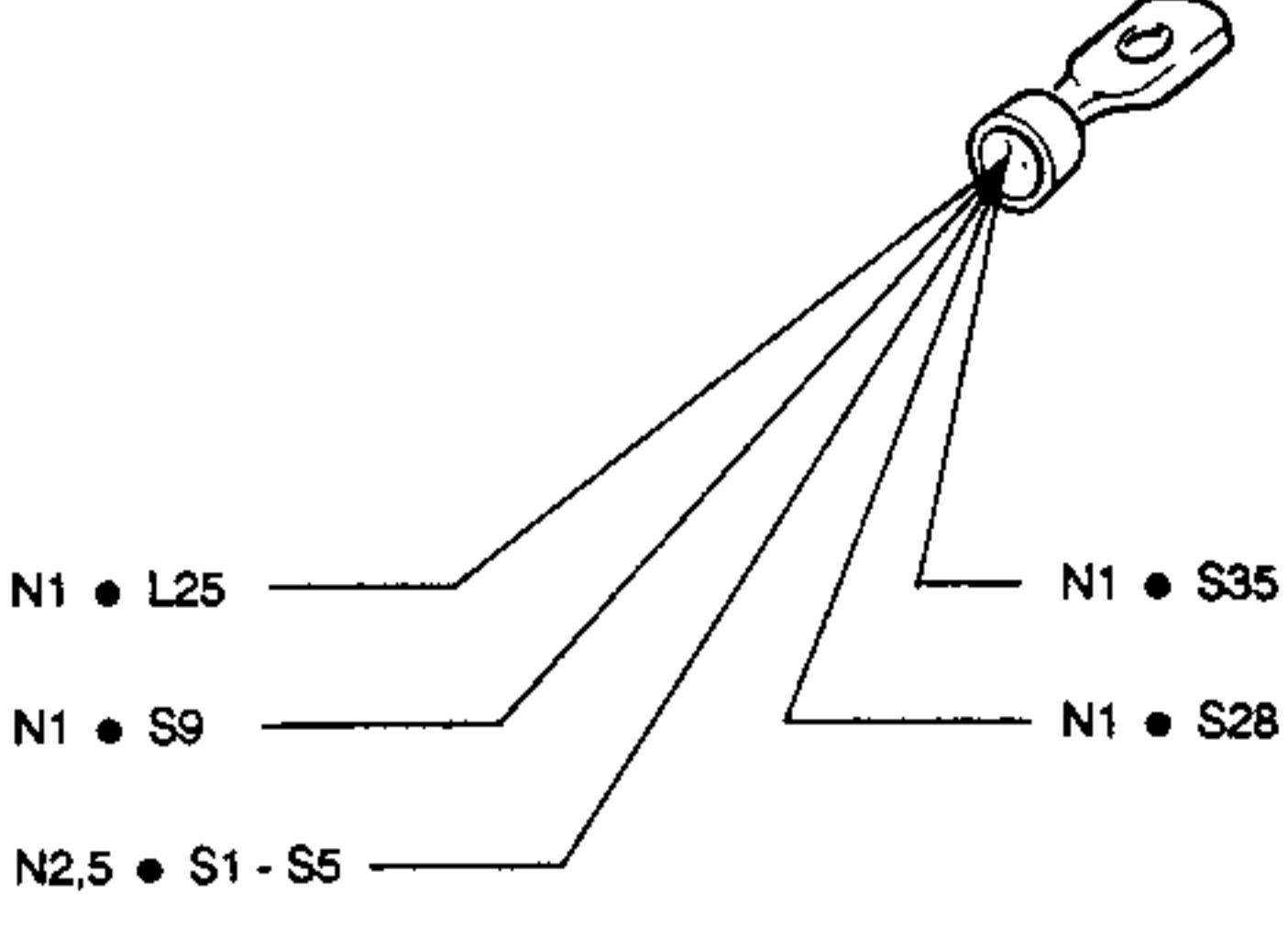
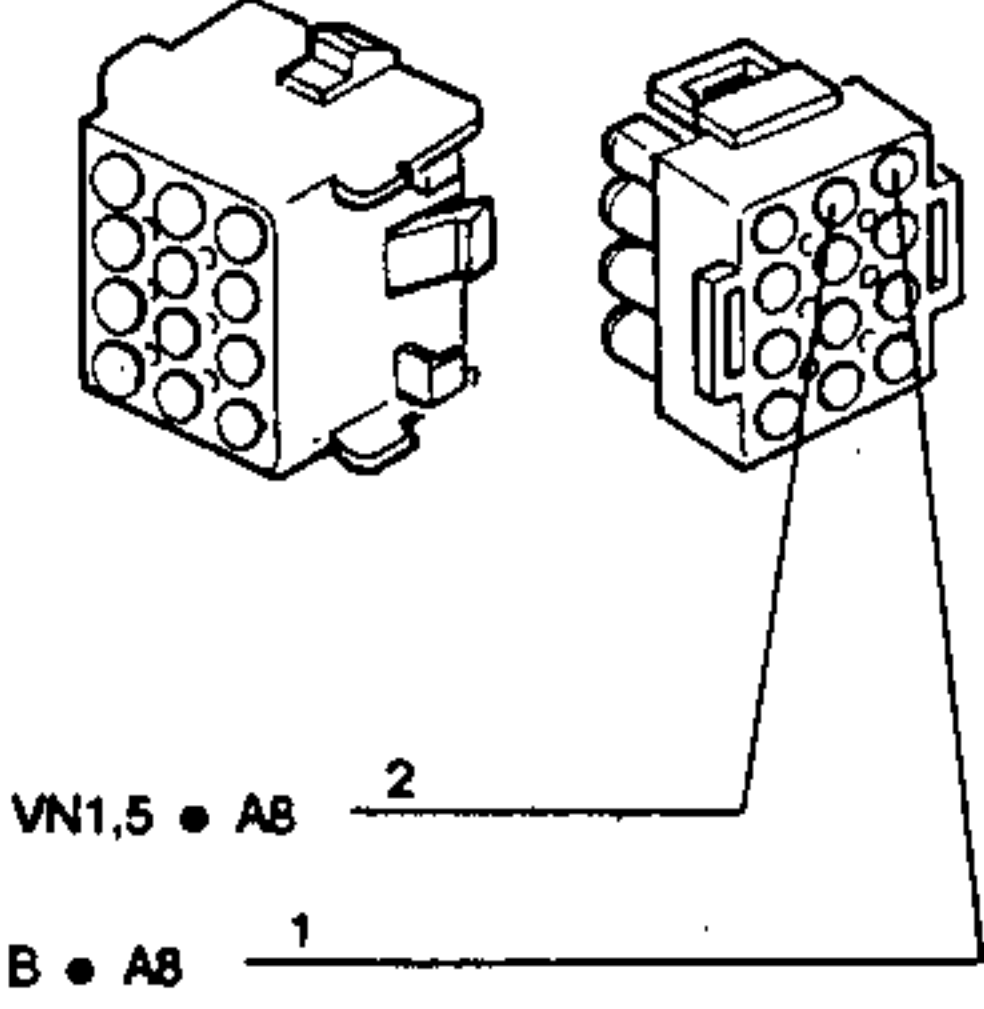
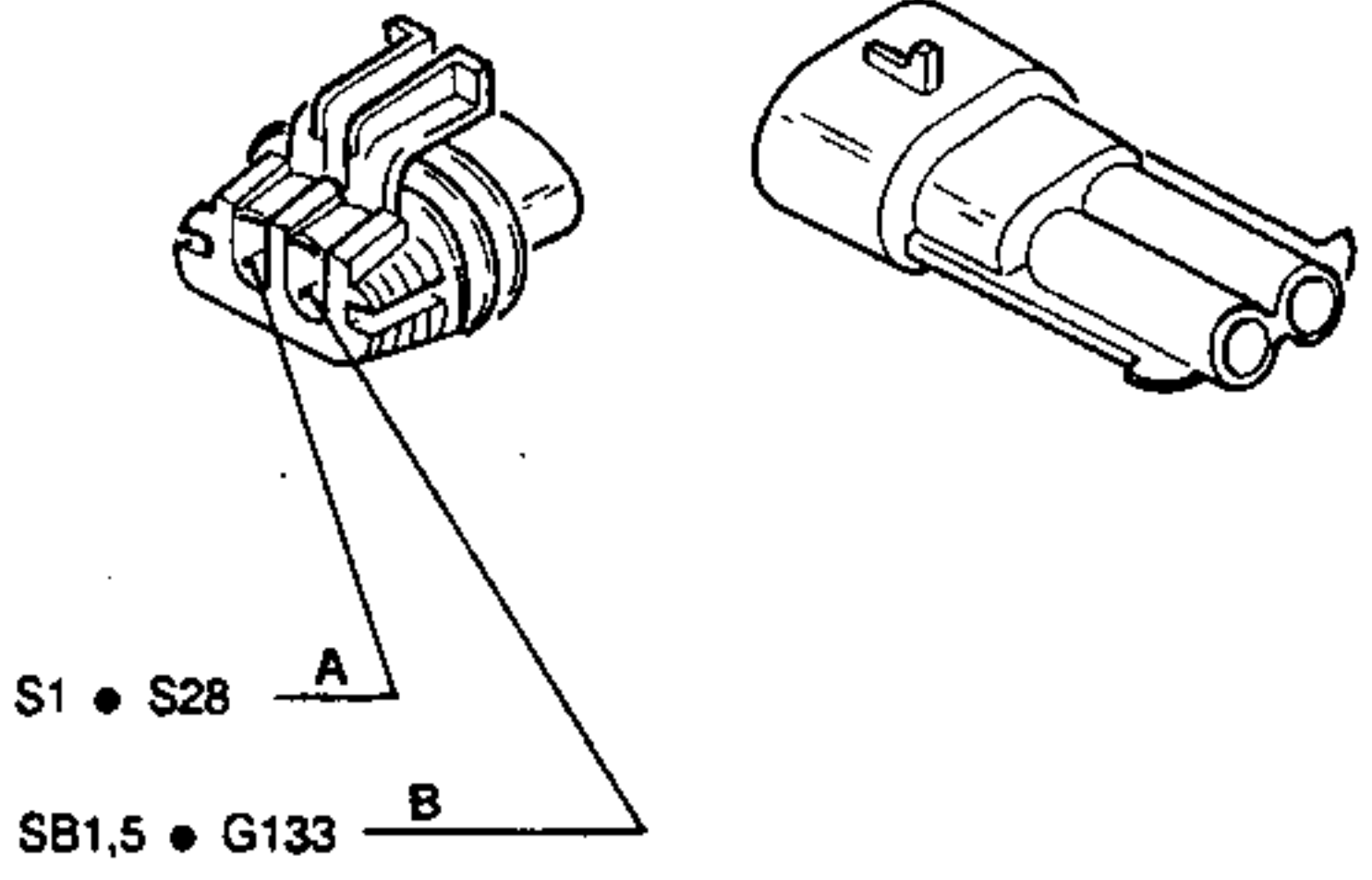


# ELECTRICAL SYSTEM

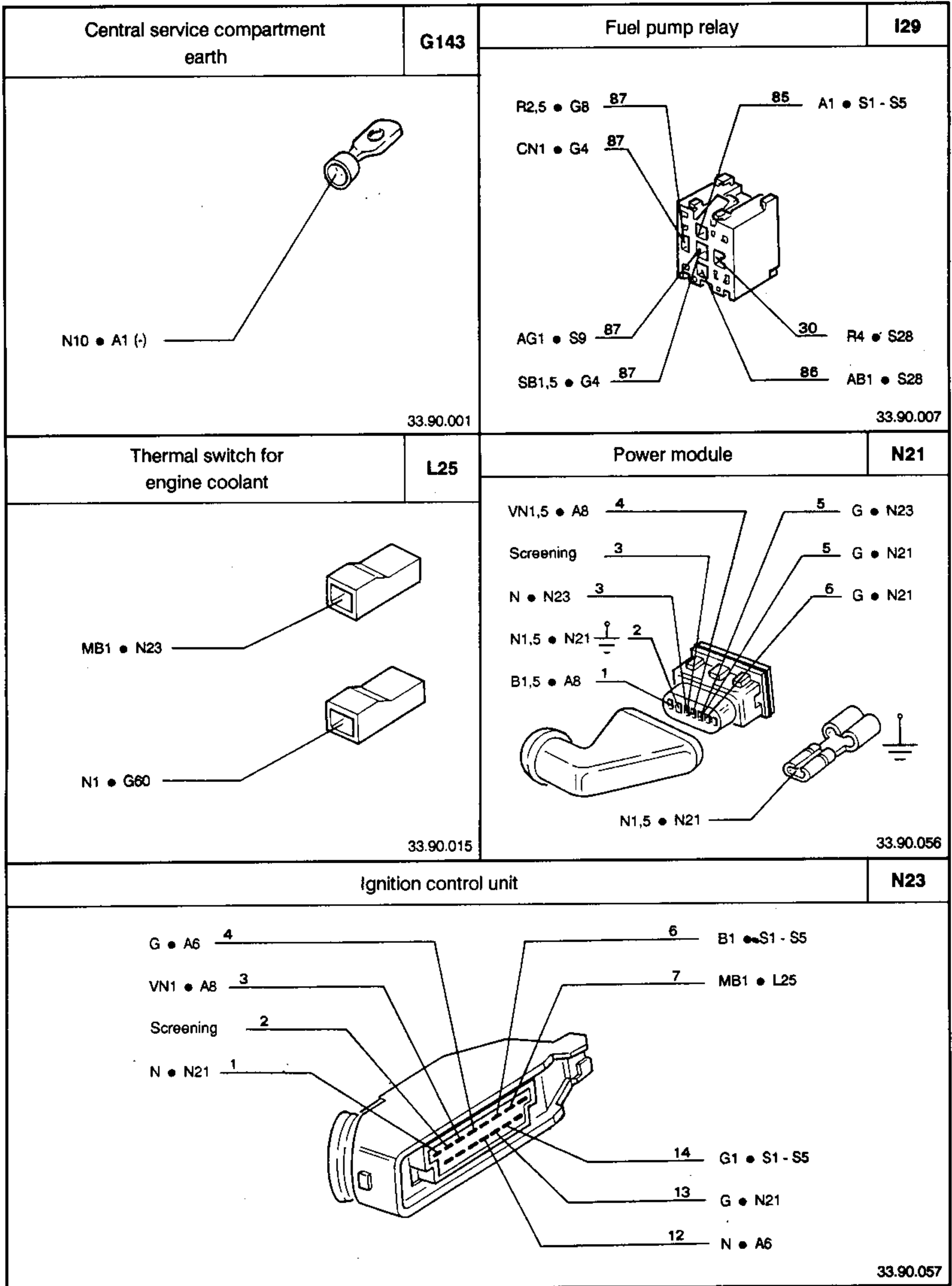
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R4 • S28</p> <p style="text-align: right;">33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p style="text-align: right;">33.90.002</p>	
Impulse generator	A6	Ignition coil (15)	A8
 <p>Screening</p> <p>N • N23</p> <p>G • N23</p> <p style="text-align: right;">33.90.058</p>		 <p>VN1 • N23</p> <p>VN1,5 • N21</p> <p style="text-align: right;">33.90.015</p>	
Ignition coil (15)	A8	Ignition coil (1)	A8
 <p>VN1,5 • G99a</p> <p style="text-align: right;">33.90.015</p>		 <p>V0,75 • S1 - S5</p> <p>B1,5 • N21</p> <p>B • G99a</p> <p style="text-align: right;">33.90.052</p>	

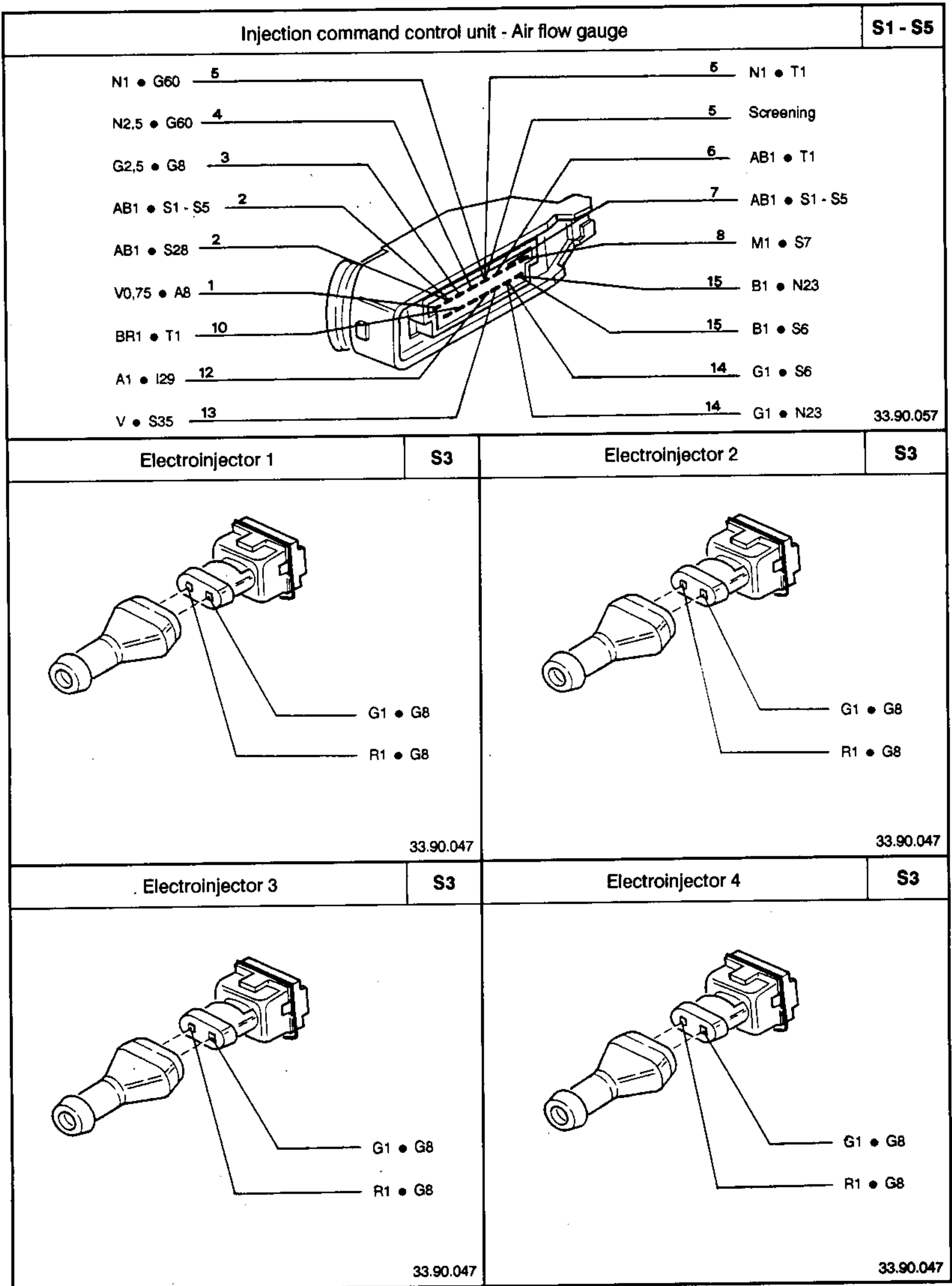
**ELECTRICAL SYSTEM**

<p>Free fuse</p>	<p><b>G4</b></p>	<p>Free fuse</p>	<p><b>G4</b></p>
 <p>SB1,5 • I29</p> <p>SB1,5 • G133</p> <p style="text-align: right;">33.90.046</p>		 <p>CN1 • I29</p> <p>CN1 • S35</p> <p style="text-align: right;">33.90.046</p>	
<p>Injection wiring earth</p>	<p><b>G60</b></p>	<p>Injection wiring earth</p>	<p><b>G60</b></p>
 <p>N1 • S7</p> <p>N1 • S6</p> <p>N1 • S1 - S5</p> <p style="text-align: right;">33.90.001</p>		 <p>N1 • L25</p> <p>N1 • S9</p> <p>N2,5 • S1 - S5</p> <p>N1 • S35</p> <p>N1 • S28</p> <p style="text-align: right;">33.90.001</p>	
<p>Connector for engine dashboard A</p>	<p><b>G99a</b></p>	<p>Ignition - electronic injection wiring connection</p>	
 <p>VN1,5 • A8 2</p> <p>B • A8 1</p> <p style="text-align: right;">33.90.016</p>		 <p>S1 • S28 A</p> <p>SB1,5 • G133 B</p> <p style="text-align: right;">33.90.055</p>	

# ELECTRICAL SYSTEM



# ELECTRICAL SYSTEM



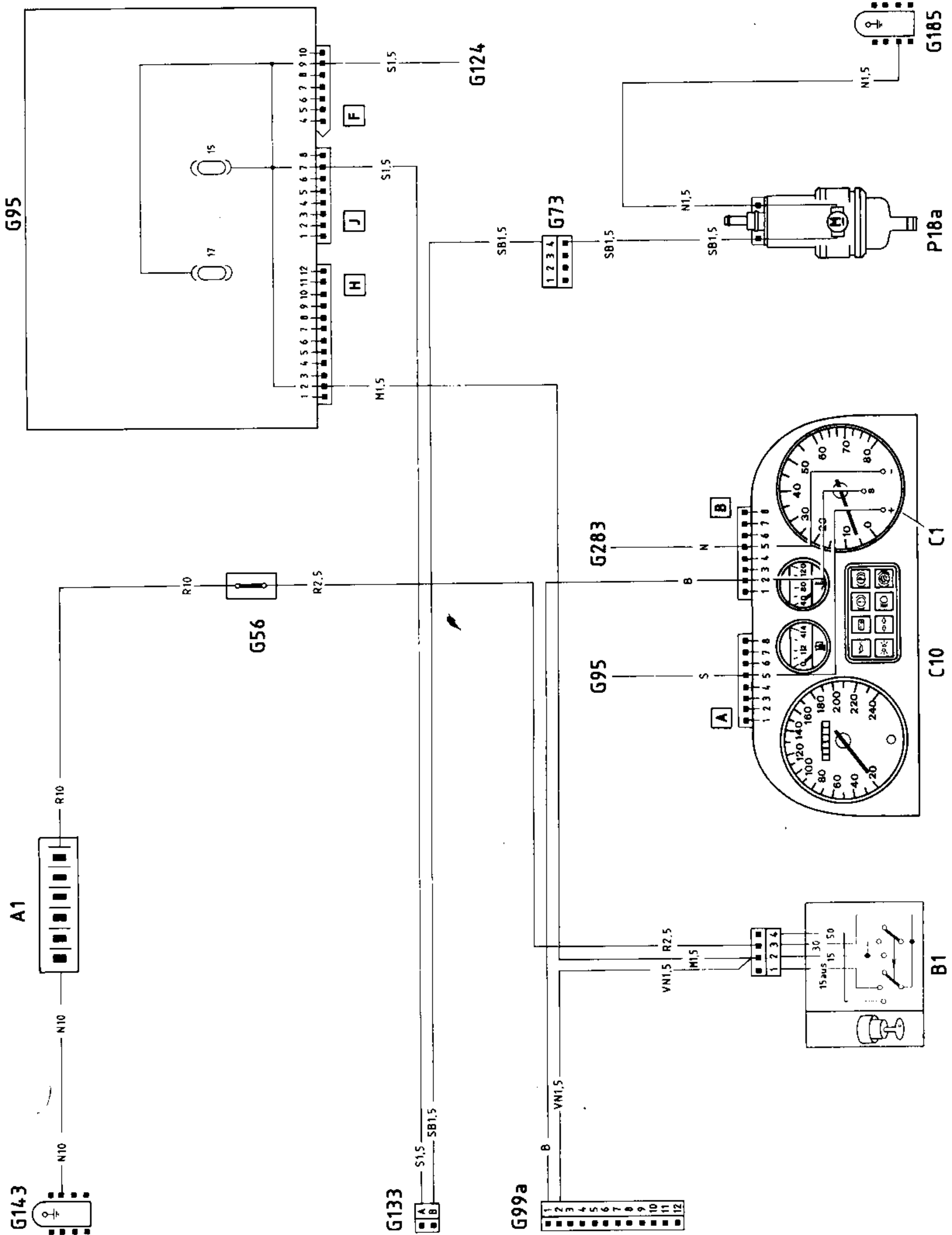
# ELECTRICAL SYSTEM

<b>Accelerator butterfly switch</b>	<b>S6</b>	<b>Engine coolant temperature sensor</b>	<b>S7</b>
33.90.049		33.90.047	
<b>Auxiliary air valve</b>	<b>S9</b>	<b>Injection control relay</b>	<b>S28</b>
33.90.047		33.90.007	
<b>Heated Lambda probe</b>	<b>S35</b>	<b>Connector for Alfa Tester</b>	<b>T1</b>
33.90.047 - 33.90.051		33.90.029 - 33.90.040	

IGNITION - INJECTION LE3 JETRONIC (Diagram B)

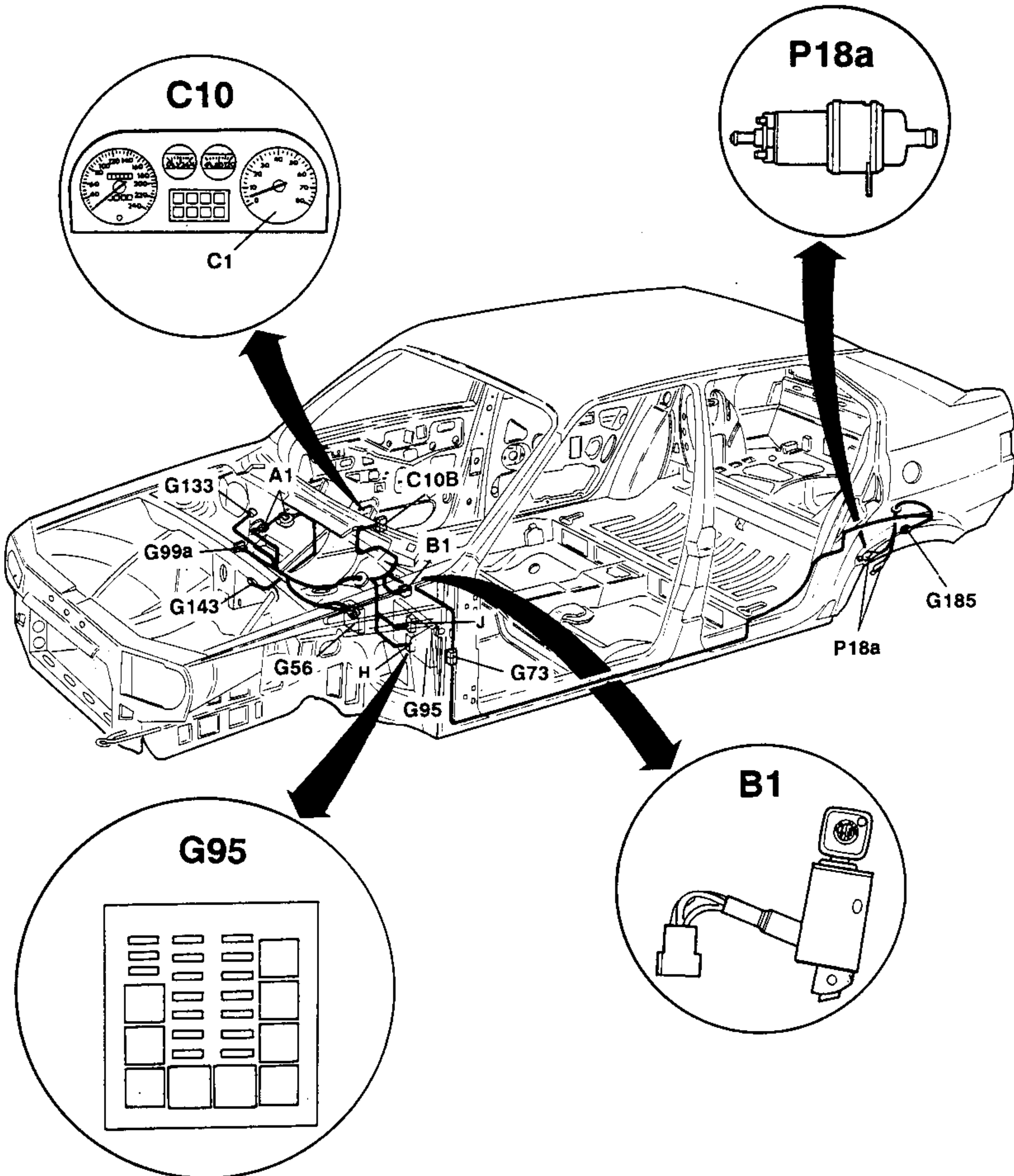
33 1.7 IE - 33 1.7 IE 4 x 4

Wiring diagram



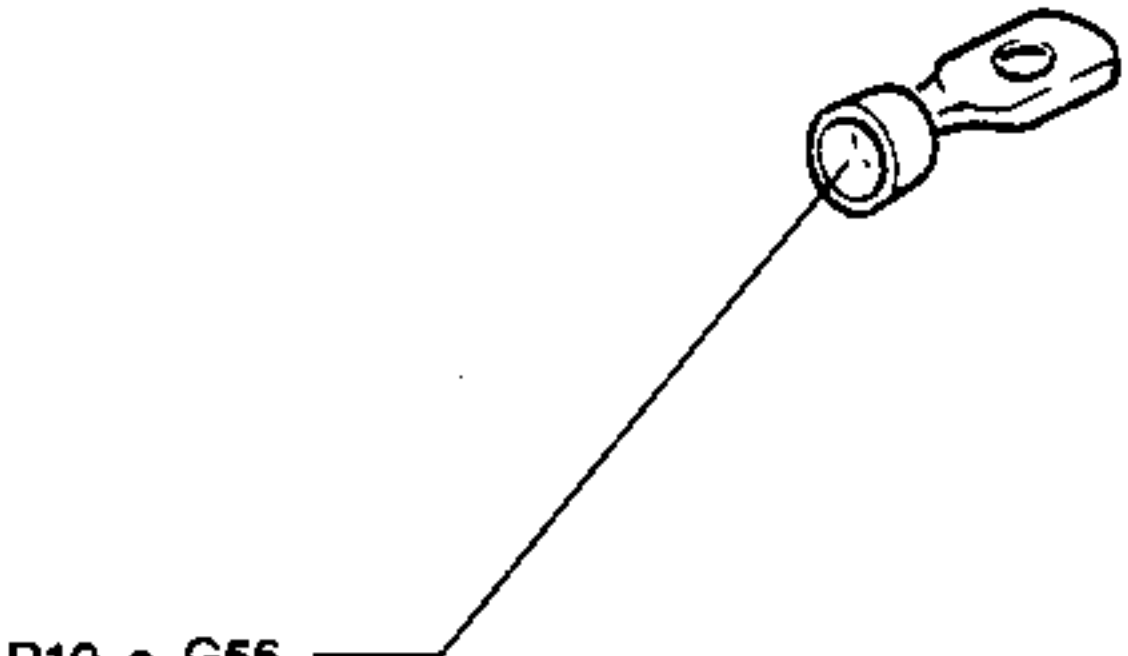

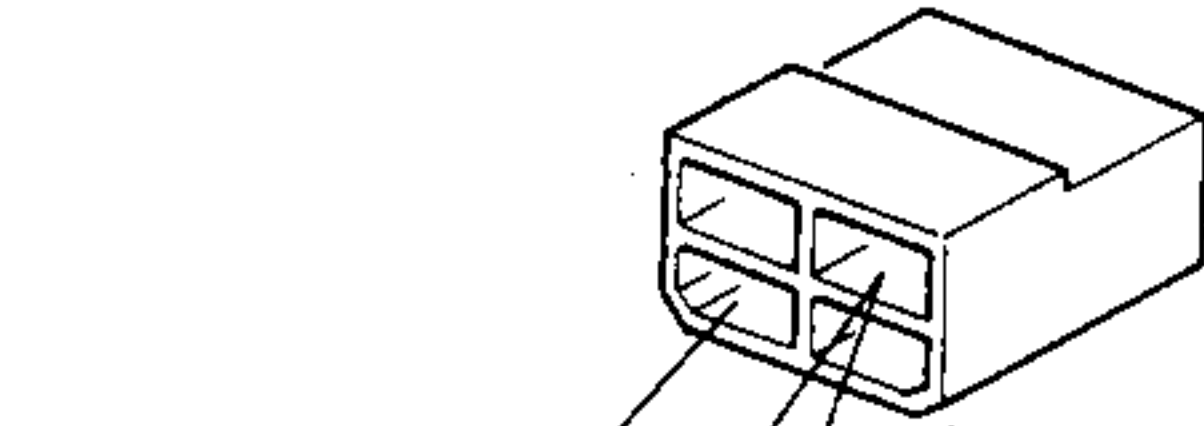
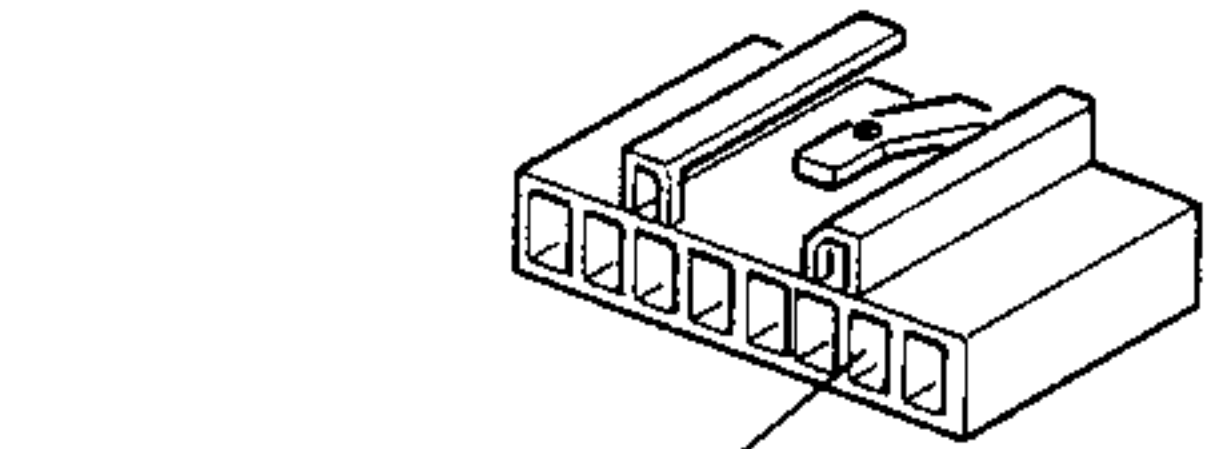
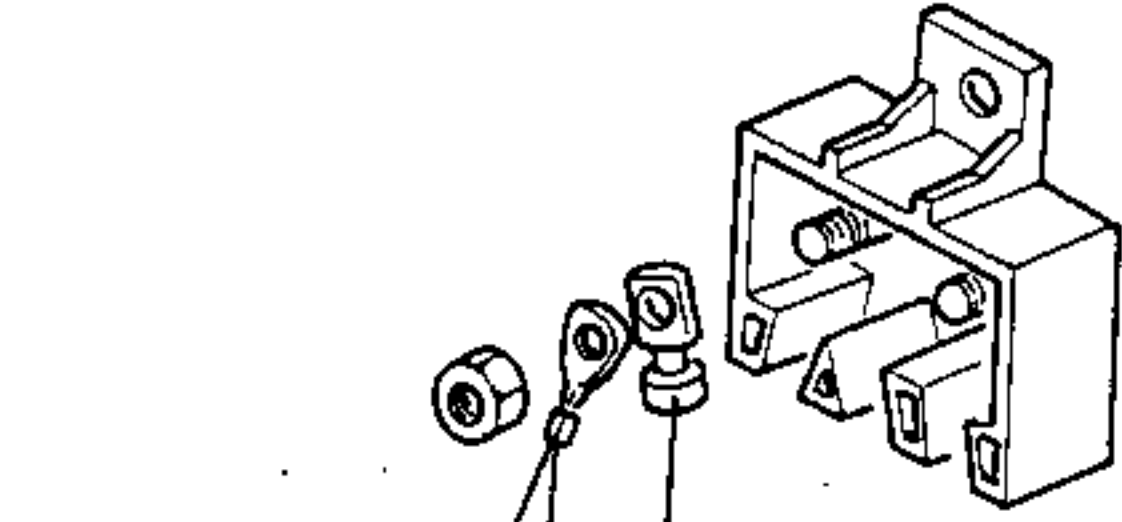
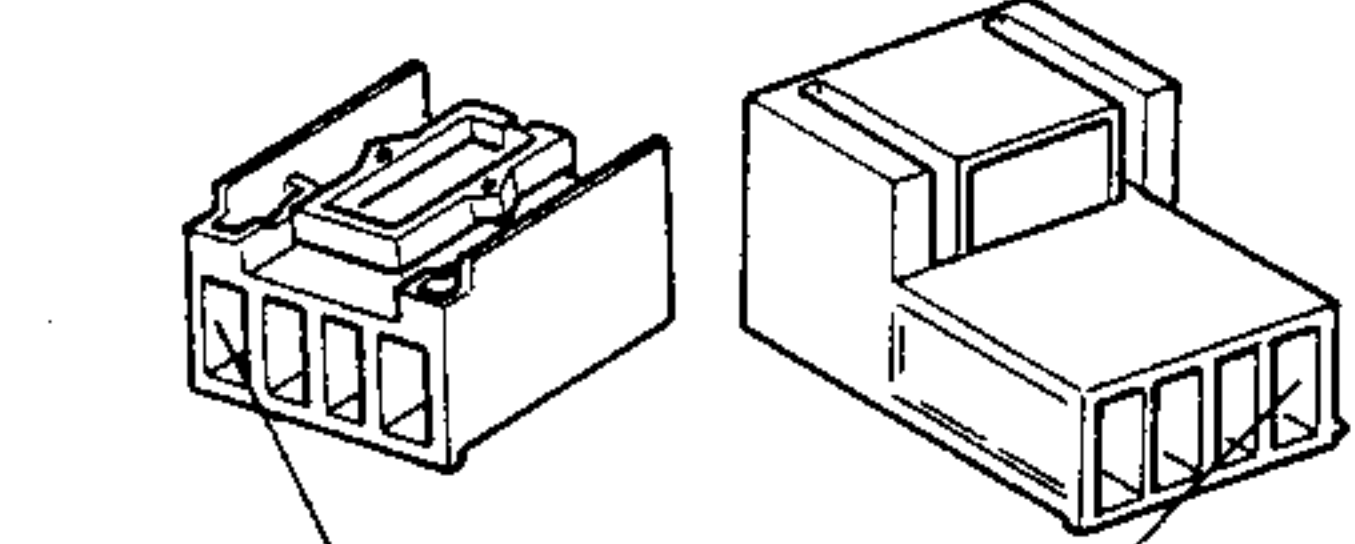


Wiring

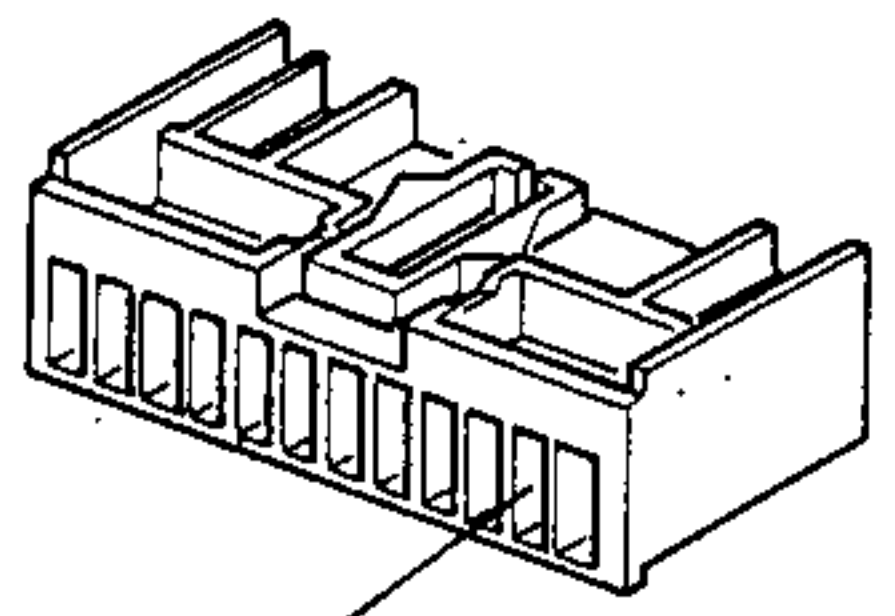
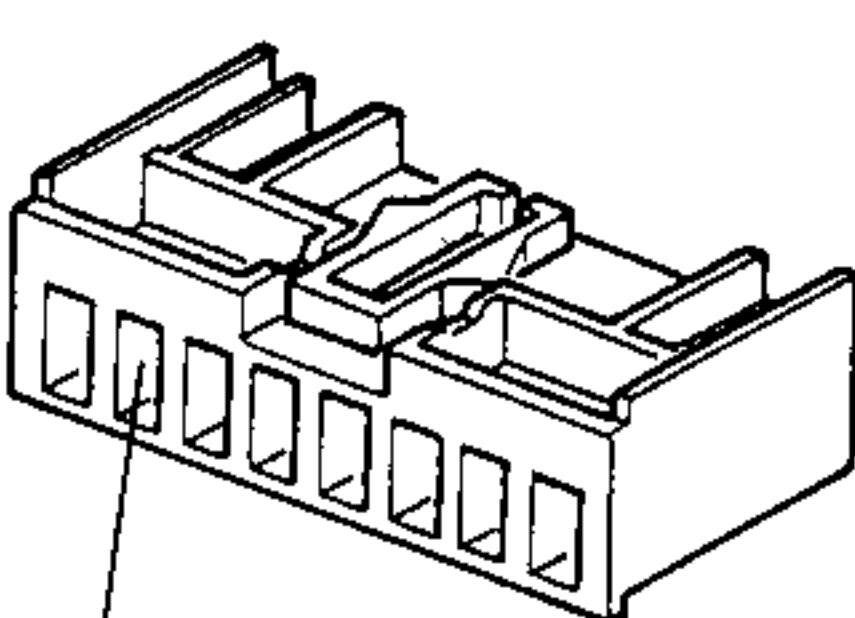
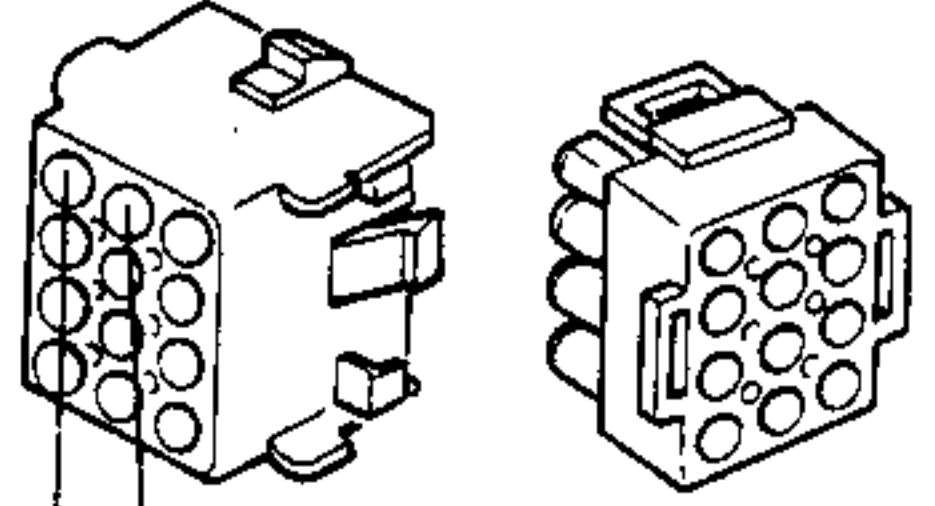
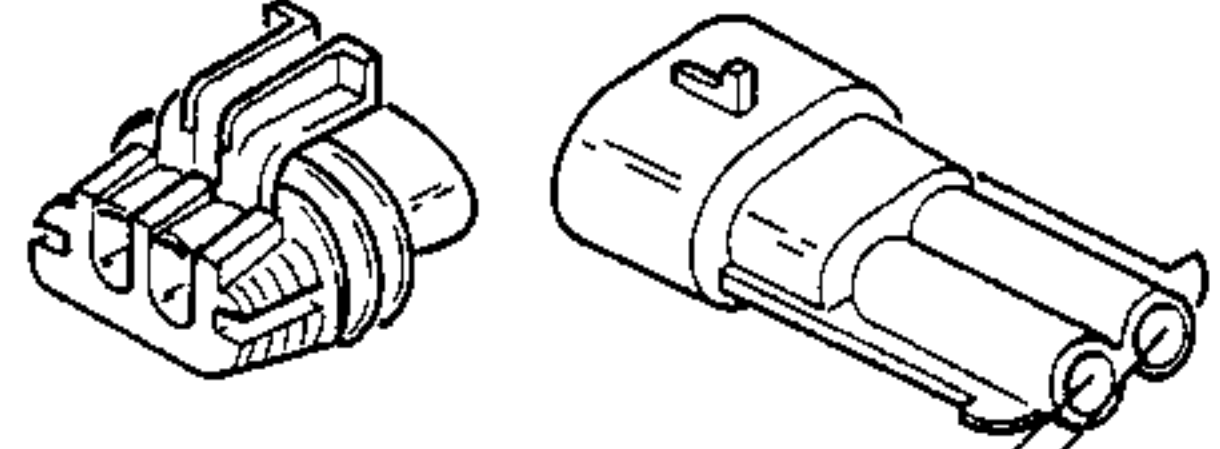




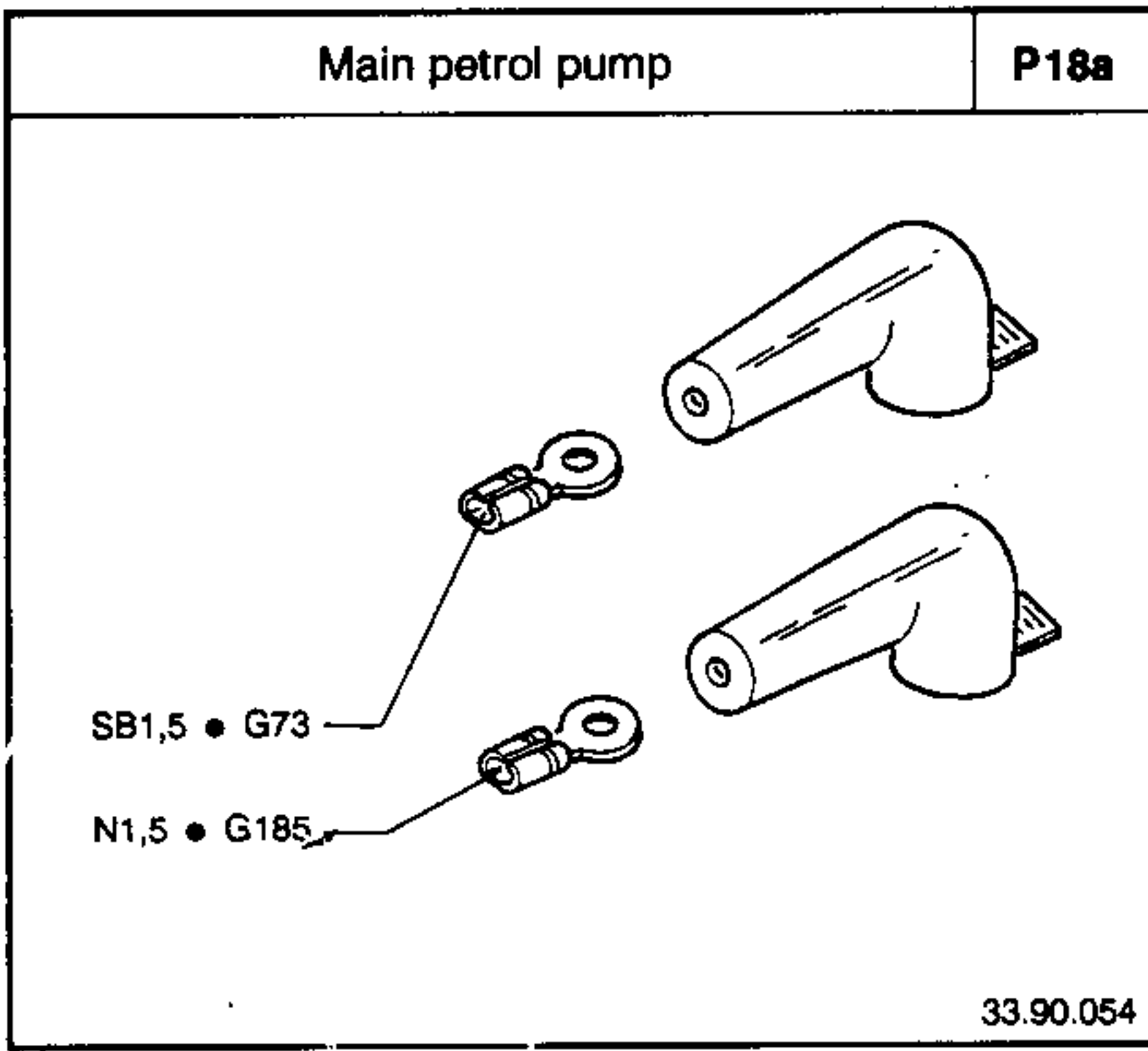
# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
Ignition switch	B1	Instrument panel	C10 <span style="border: 1px solid black; padding: 2px;">B</span>
 <p>R2,5 • G56 3 M1,5 • G95 <span style="border: 1px solid black; padding: 2px;">H</span> 2 VN1,5 • G99a 2</p>		 <p>B • G99a 2</p>	
33.90.028		33.90.024	
Branch terminal board	G56	Connector for rear services	G73
 <p>R2,5 • B1 R2,5 • B68 <span style="border: 1px solid black; padding: 2px;">A</span> R10 • A1 (+)</p>		 <p>SB1,5 • G133 4      4 SB1,5 • P18a</p>	
33.90.066		33.90.018	

# ELECTRICAL SYSTEM

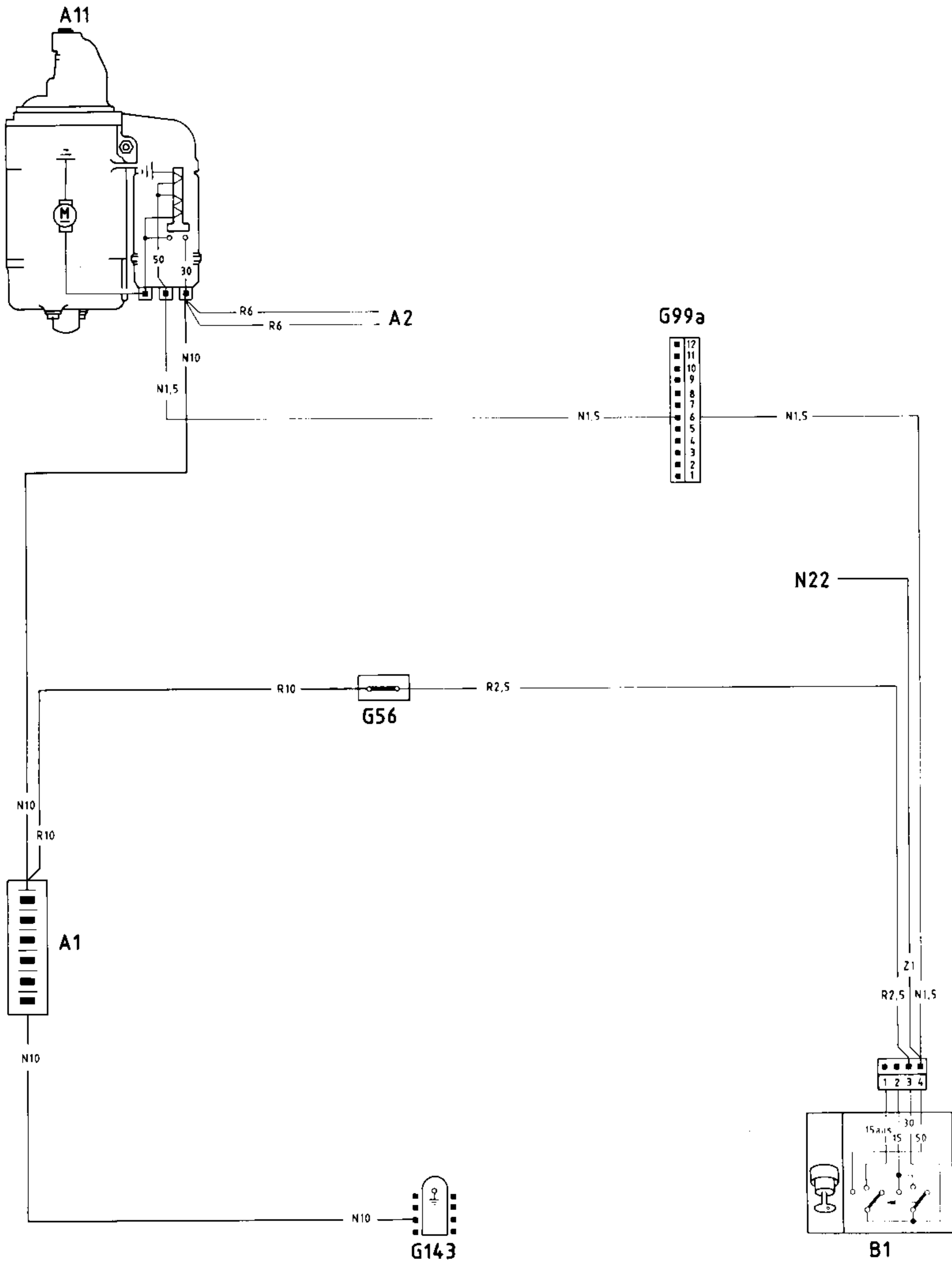
<p>Central fusebox</p> <p style="text-align: right;"><b>G95 H</b></p>  <p>M1,5 • B1 <u>2</u></p> <p style="text-align: right;">33.90.004</p>	<p>Central fusebox</p> <p style="text-align: right;"><b>G95 J</b></p>  <p>S1,5 • G133 <u>7</u></p> <p style="text-align: right;">33.90.003</p>
<p>Connector for engine dashboard A</p> <p style="text-align: right;"><b>G99a</b></p>  <p>B • C10 <b>B</b> <u>1</u></p> <p>VN1,5 • B1 <u>2</u></p> <p style="text-align: right;">33.90.016</p>	<p>Ignition - electronic injection wiring connection</p> <p style="text-align: right;"><b>G133</b></p>  <p>A S1,5 • G95 <b>J</b></p> <p>B SB1,5 • G73</p> <p style="text-align: right;">33.90.055</p>
<p>Central service compartment earth</p> <p style="text-align: right;"><b>G143</b></p>  <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>	<p>Luggage compartment earth - left side</p> <p style="text-align: right;"><b>G185</b></p>  <p>N1,5 • P18a</p> <p style="text-align: right;">33.90.032</p>



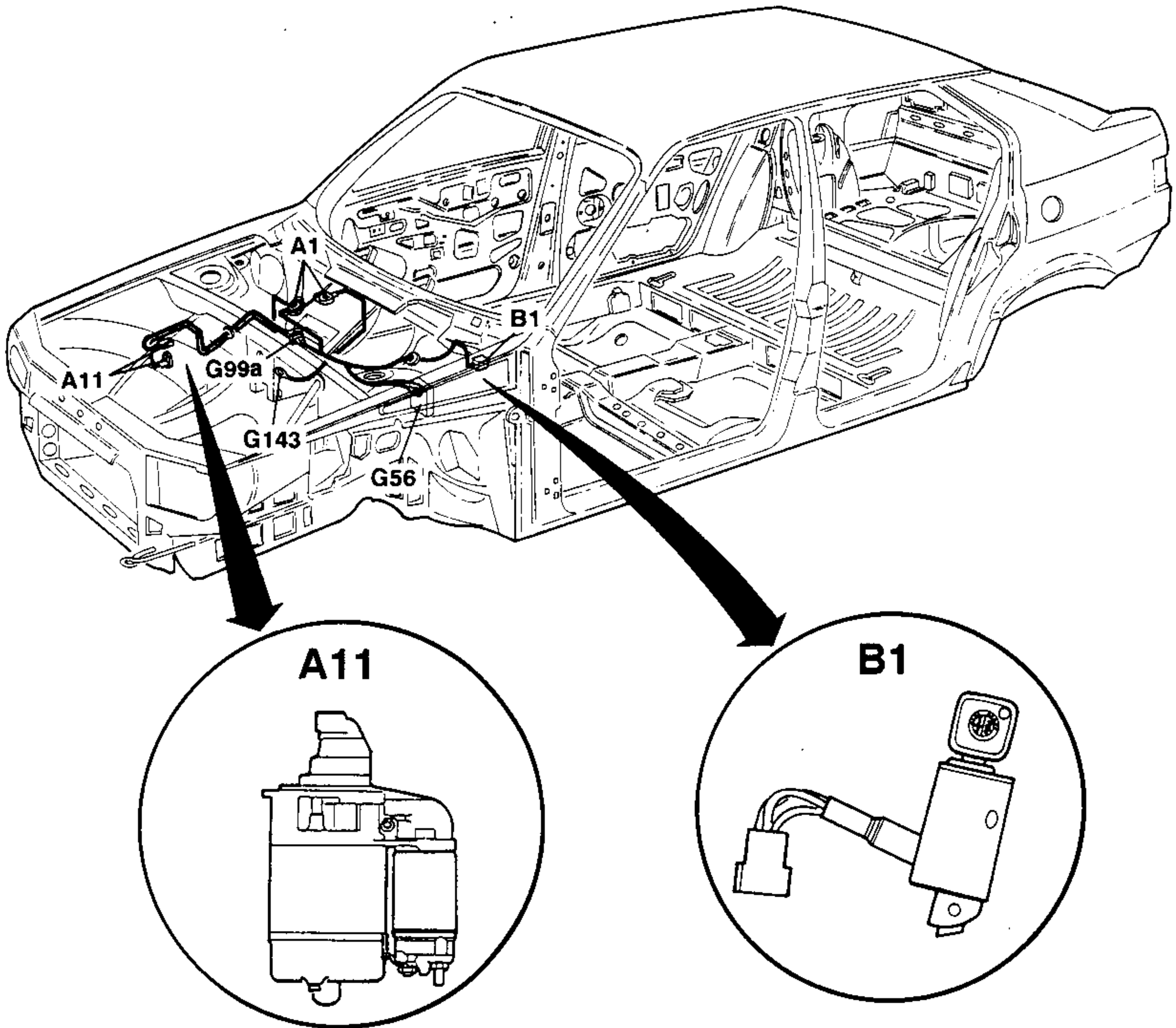
# STARTING - CHARGING

## STARTING

### Wiring diagram


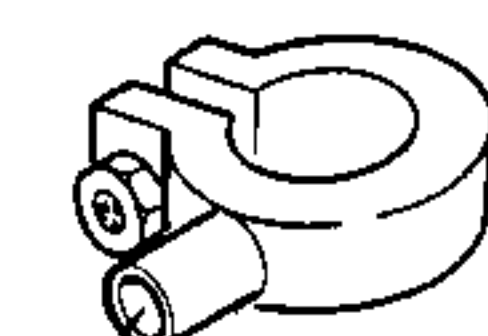
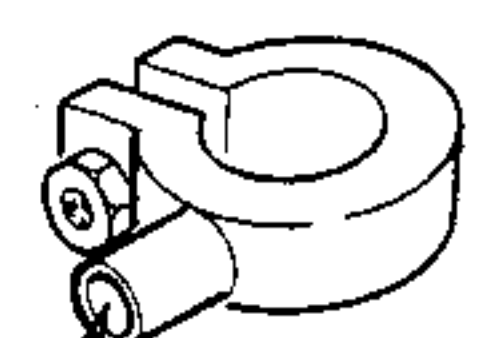
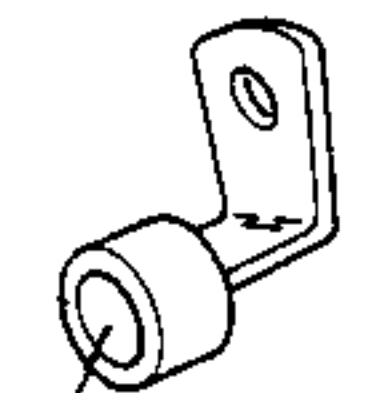
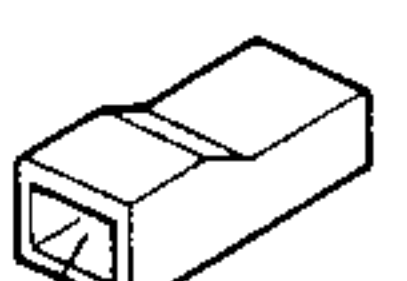
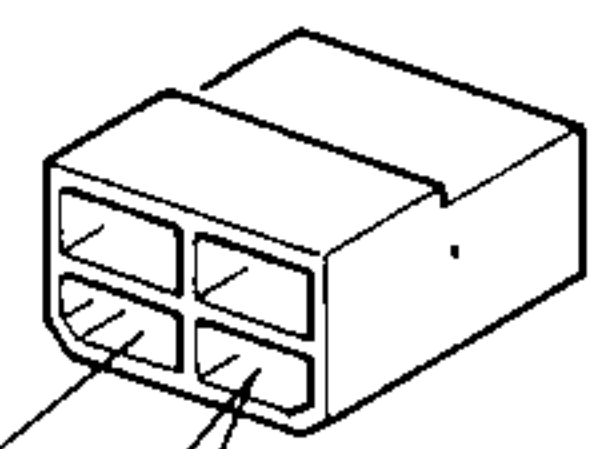


Wiring

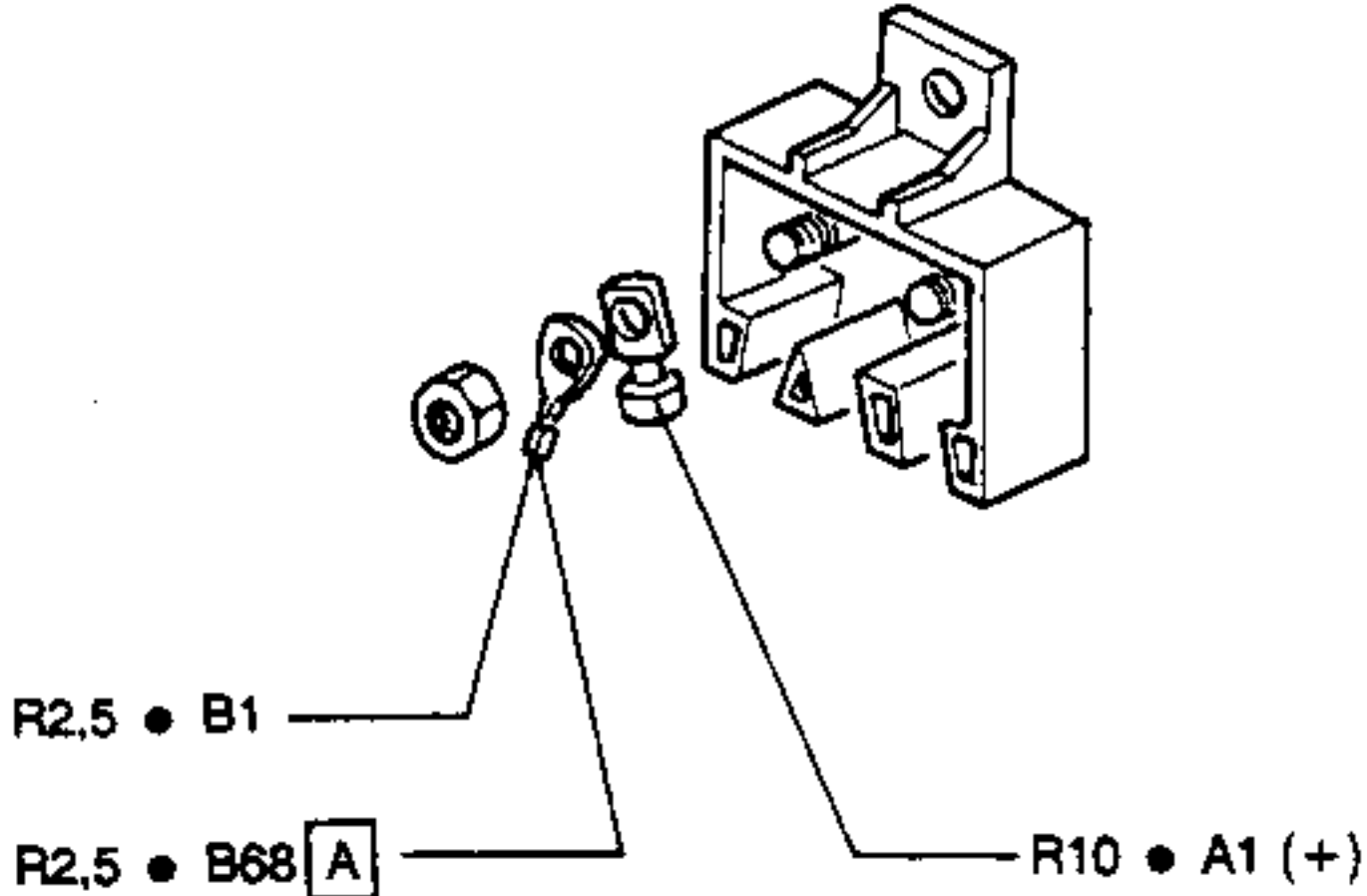
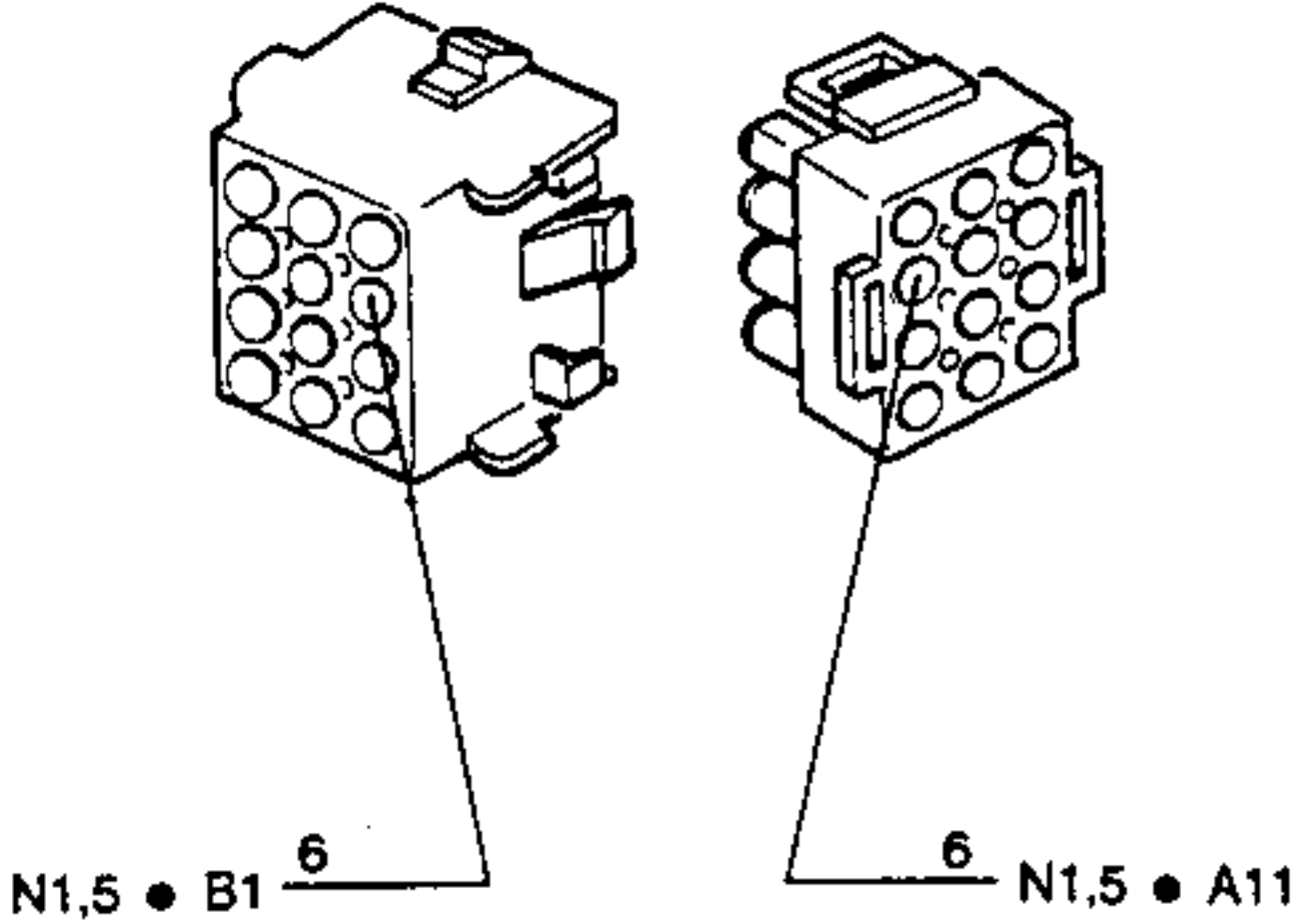
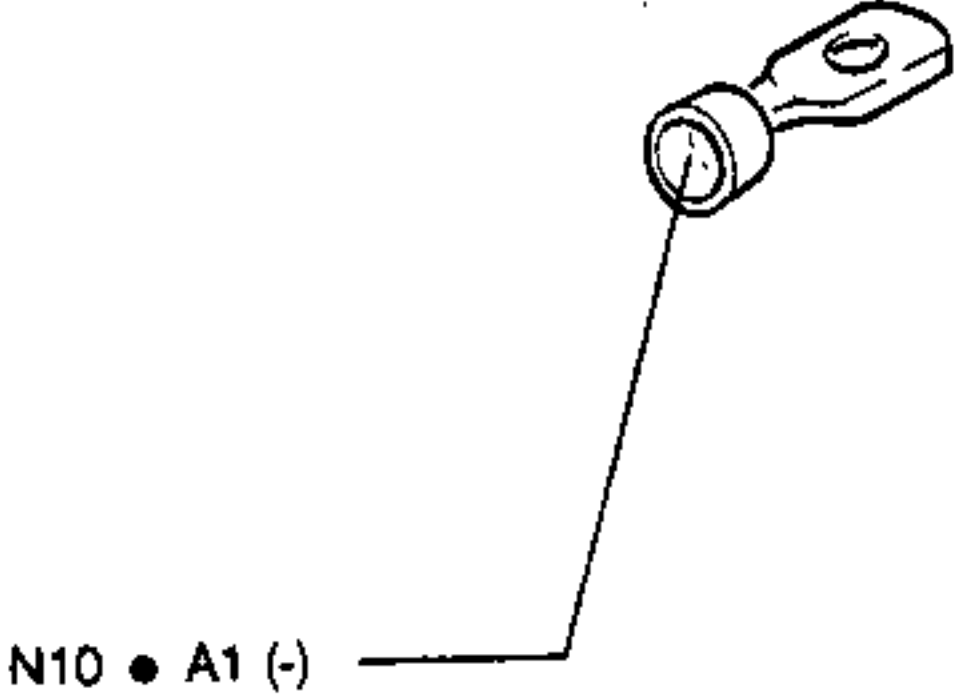


# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • A11</p>	
33.90.001		33.90.002	
Battery (-)	A1	Starter motor (+ 30)	A11
 <p>N10 • G143 N20 • To engine</p>		 <p>N10 • A1 (+)</p>	
33.90.002		33.90.006	
Starter motor (+ 50)	A11	Ignition switch	B1
 <p>N1,5 • G99a</p>		 <p>R2,5 • G56 3 Z1 • N22 [A] 4 N1,5 • G99a 4</p>	
33.90.015		33.90.028	

# ELECTRICAL SYSTEM

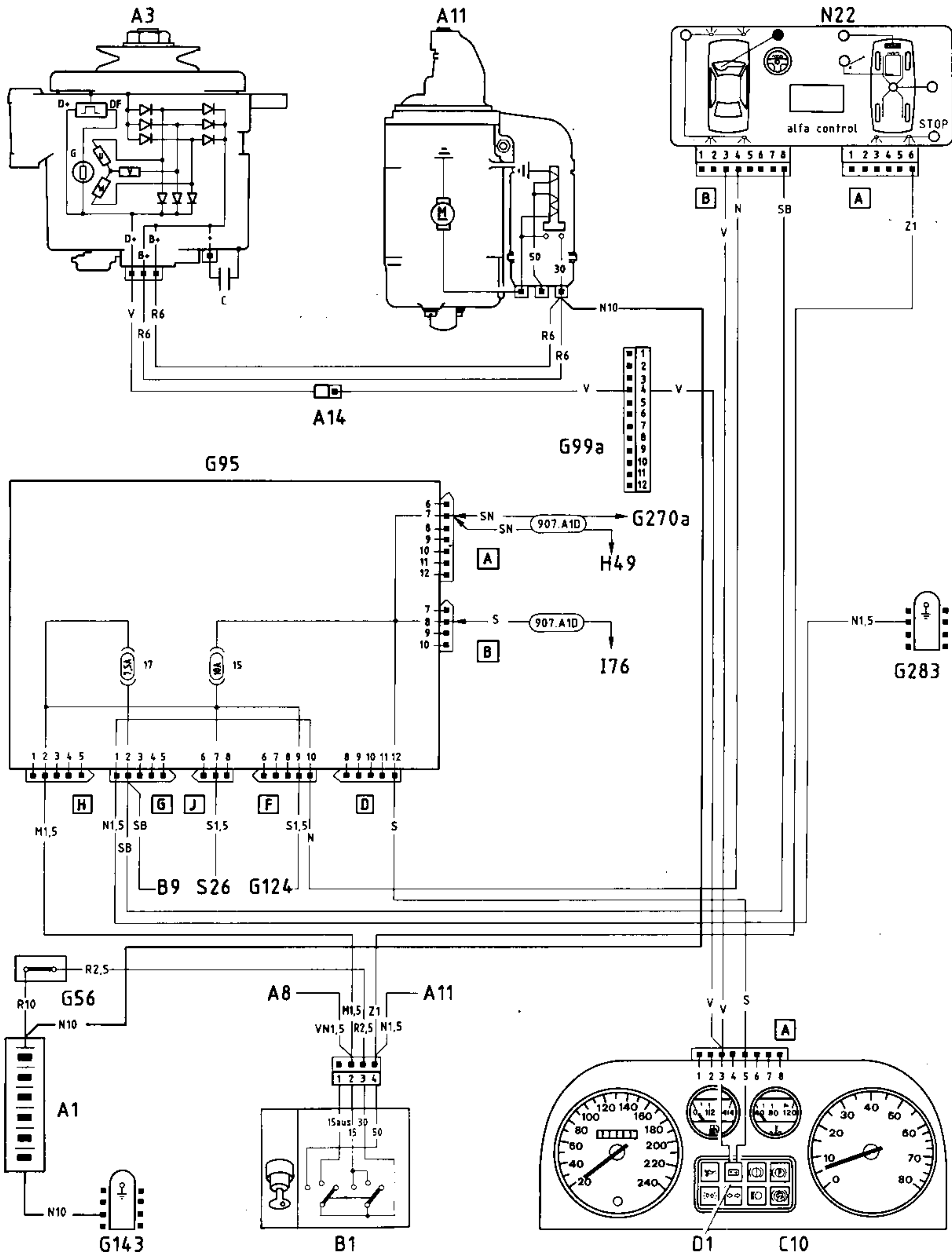
Branch terminal board	G56	Connector for engine dashboard A	G99a
 <p>R2.5 ● B1</p> <p>R2.5 ● B68 [A]</p> <p>R10 ● A1 (+)</p> <p>33.90.066</p>	 <p>N1.5 ● B1 6</p> <p>6 N1.5 ● A11</p> <p>33.90.016</p>		
Central service compartment earth	G143		
 <p>N10 ● A1 (-)</p> <p>33.90.001</p>			



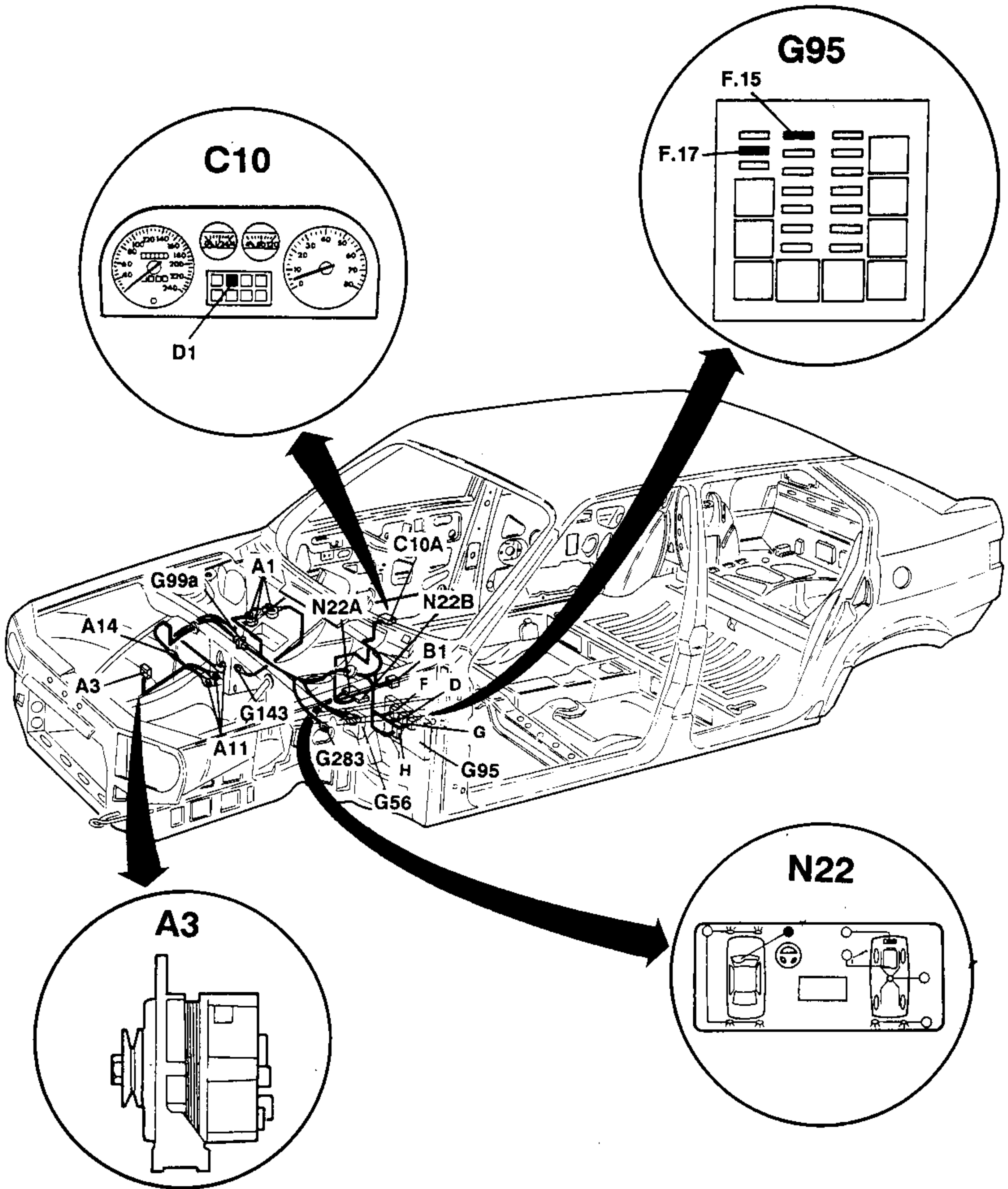
# ELECTRICAL SYSTEM

## CHARGING

### Wiring diagram

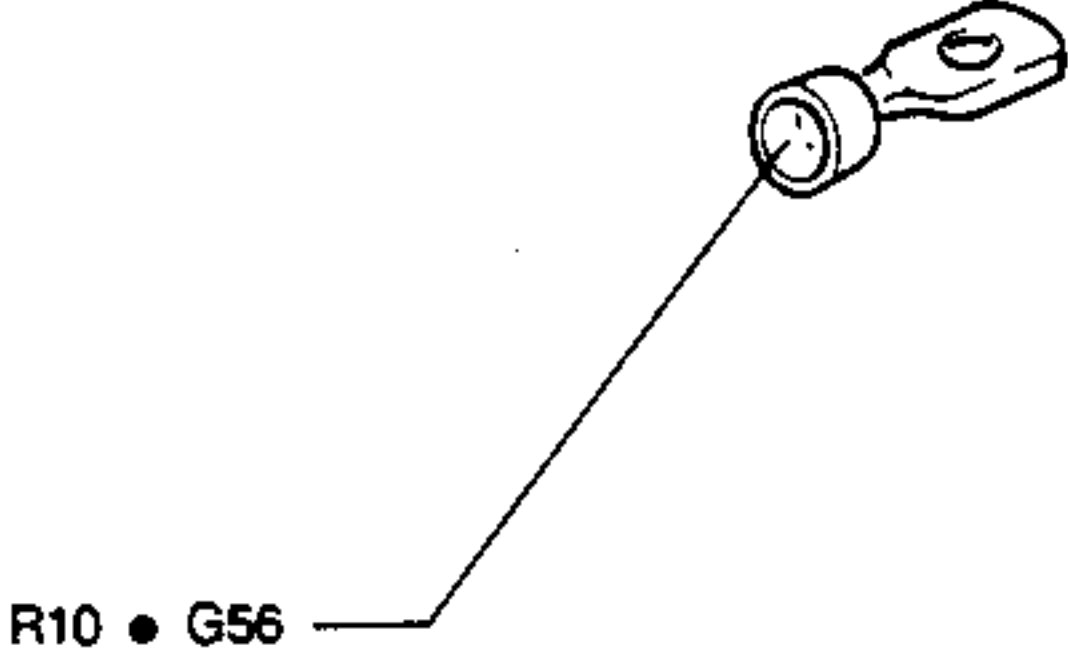
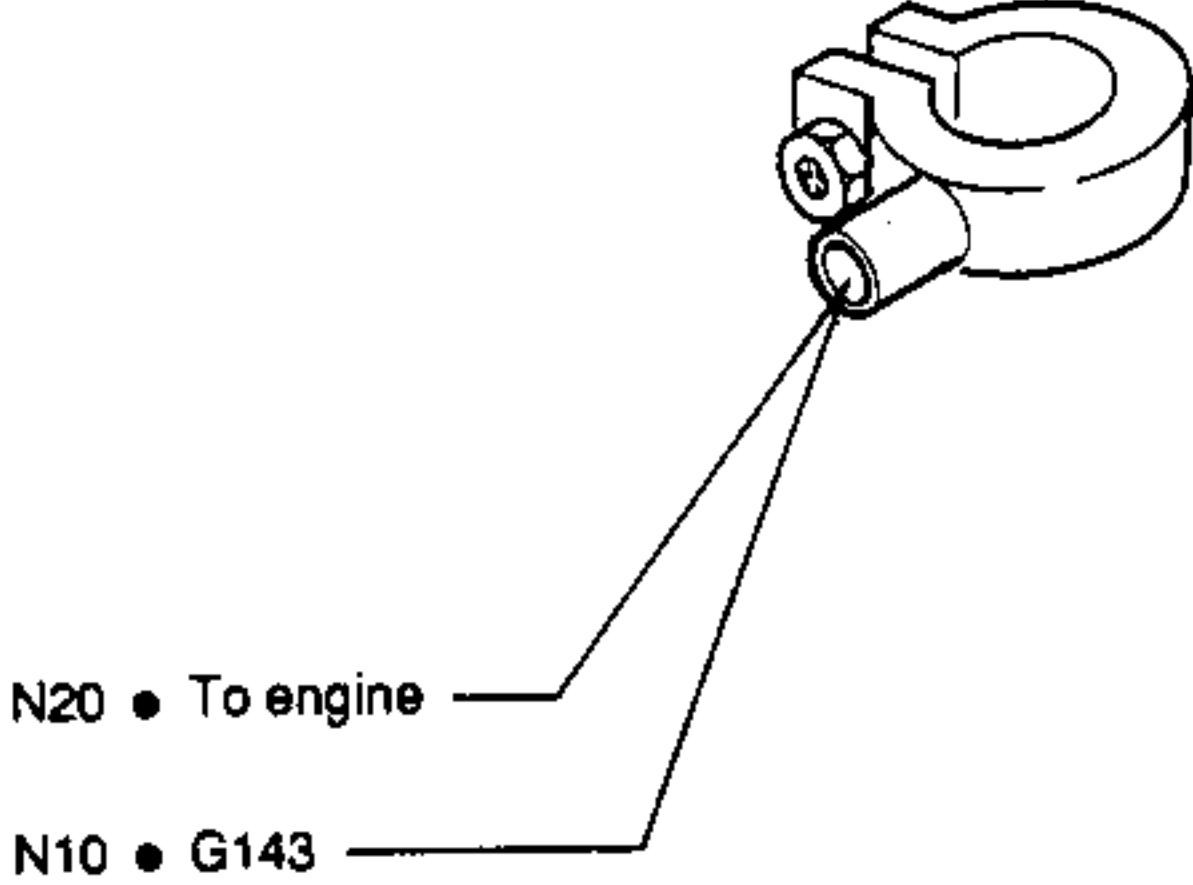
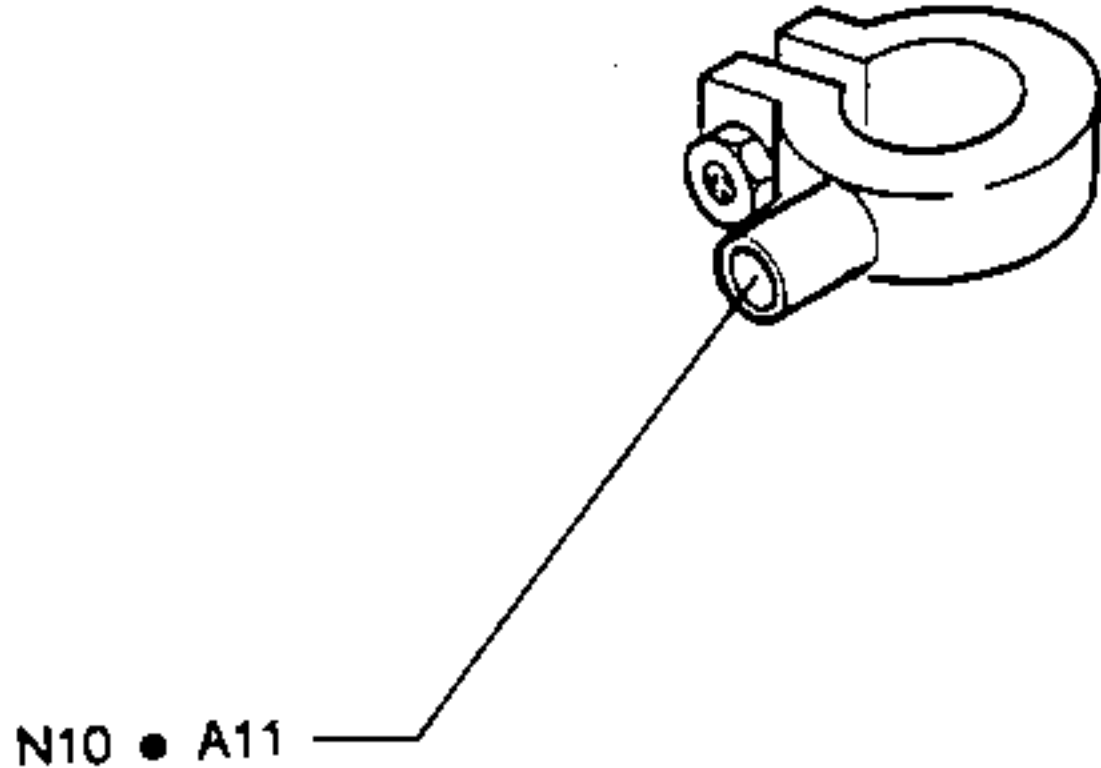
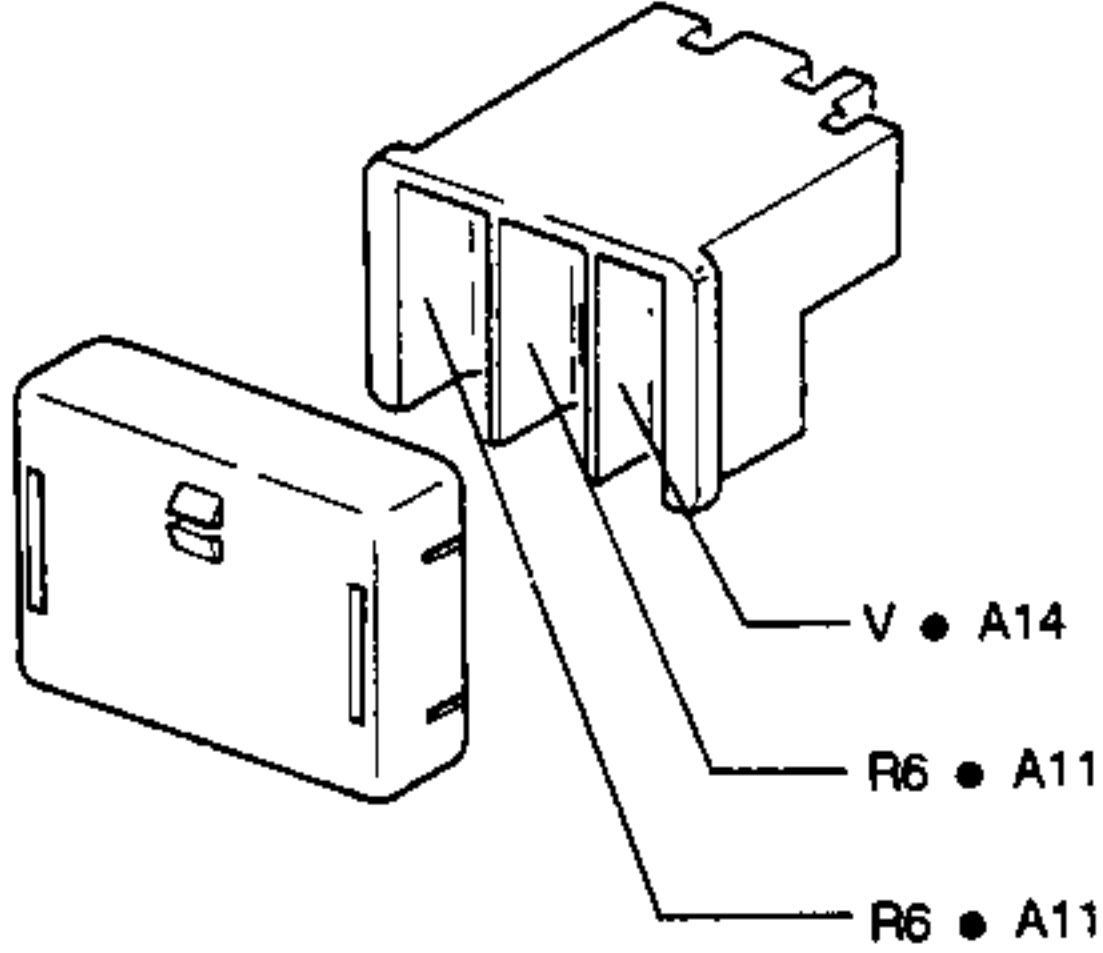
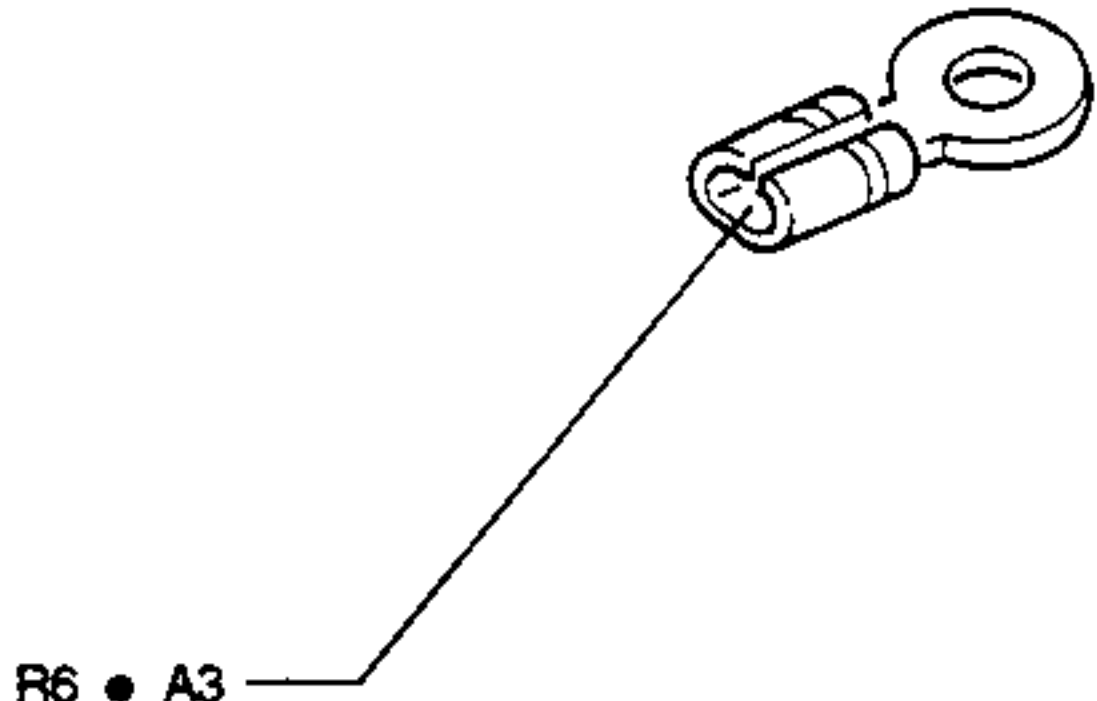
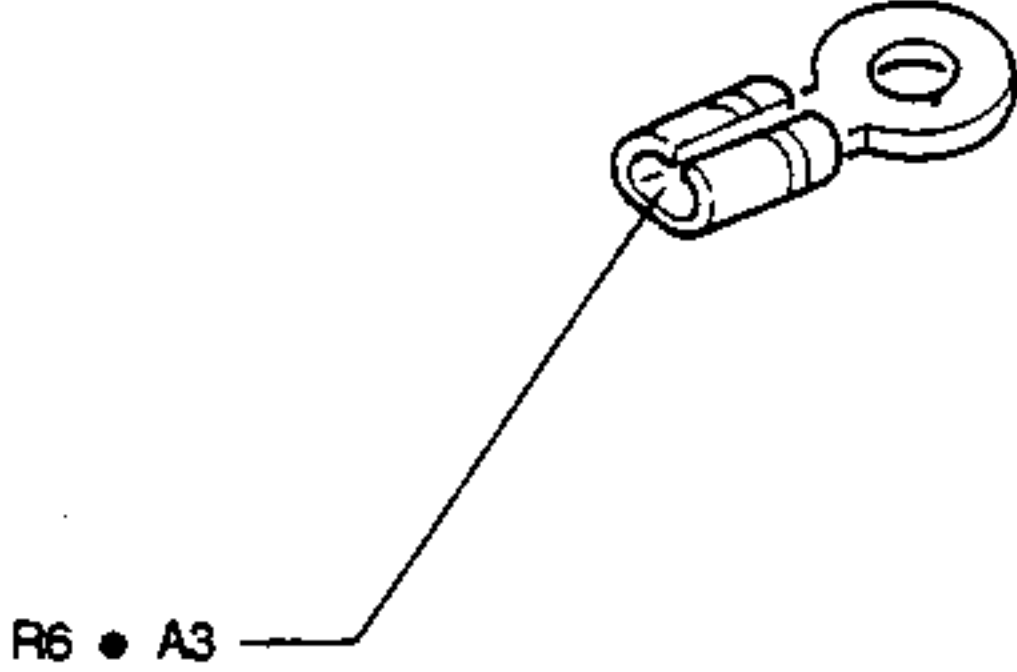


Wiring

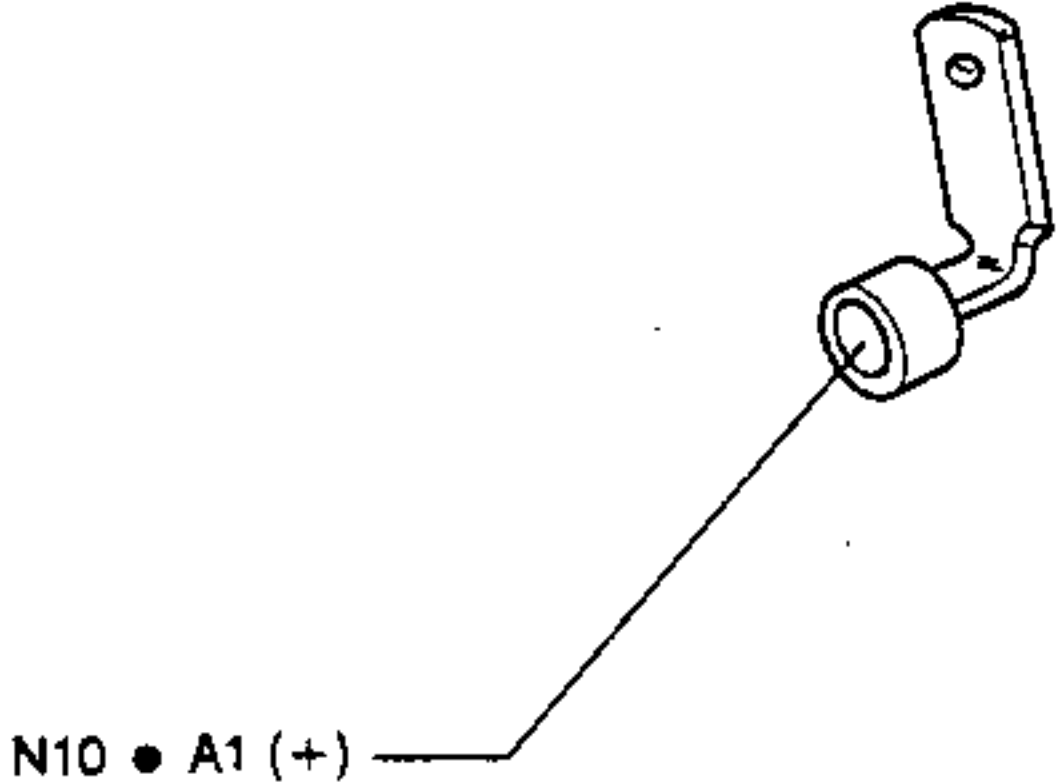
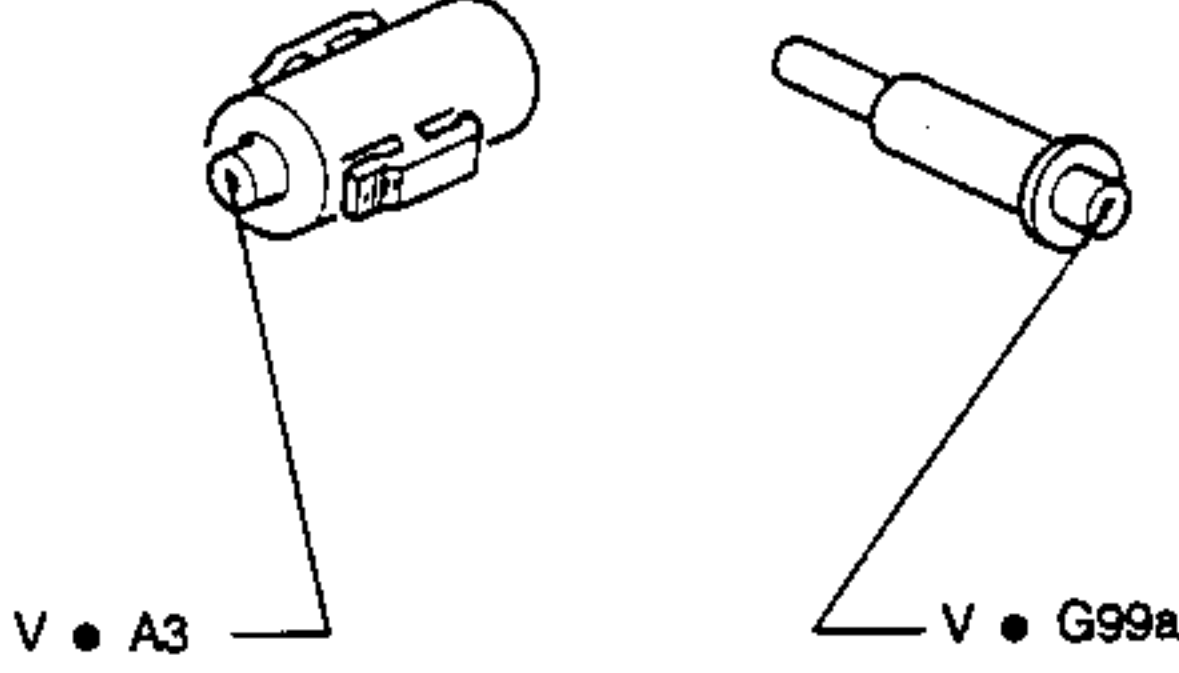
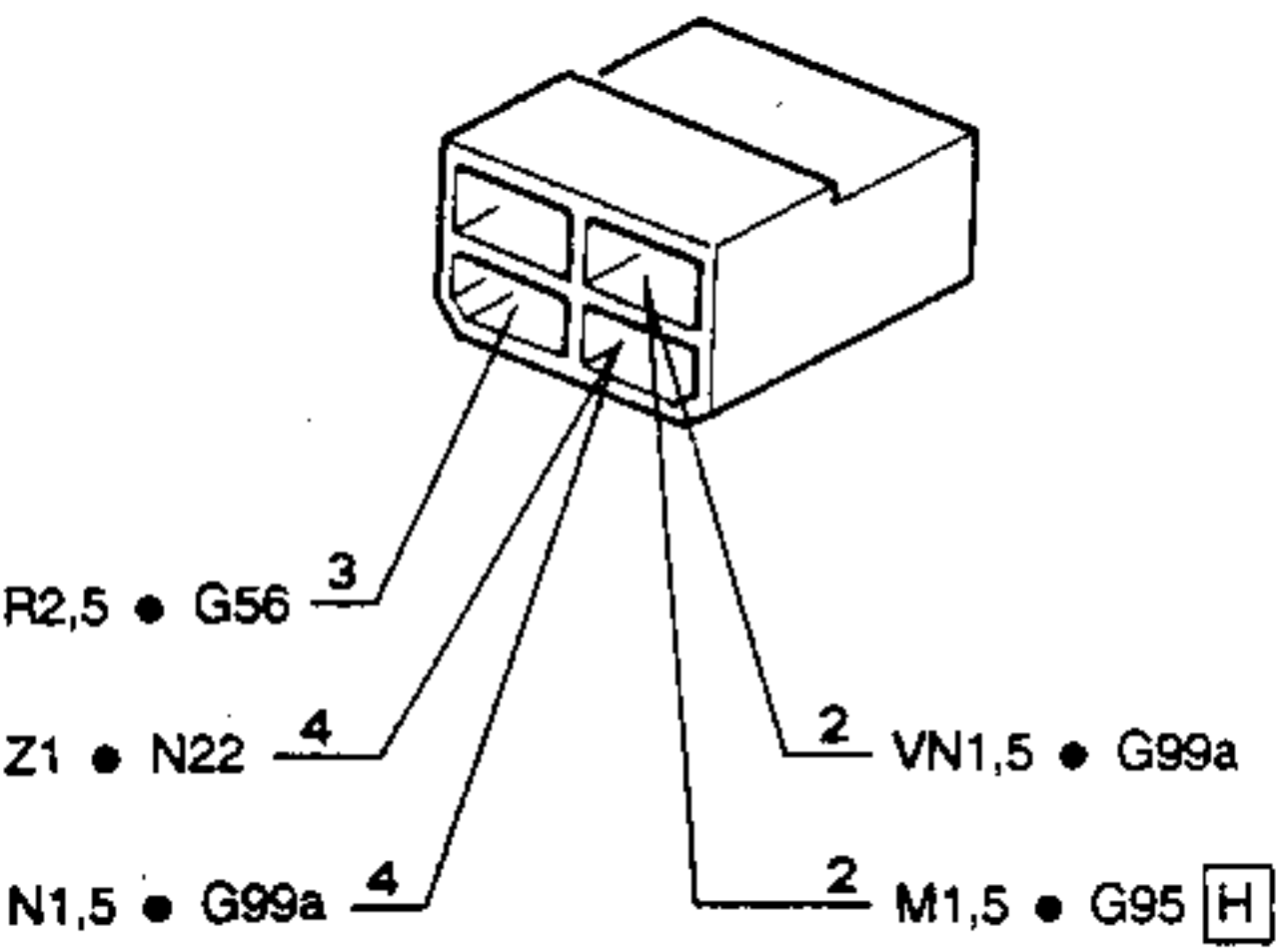
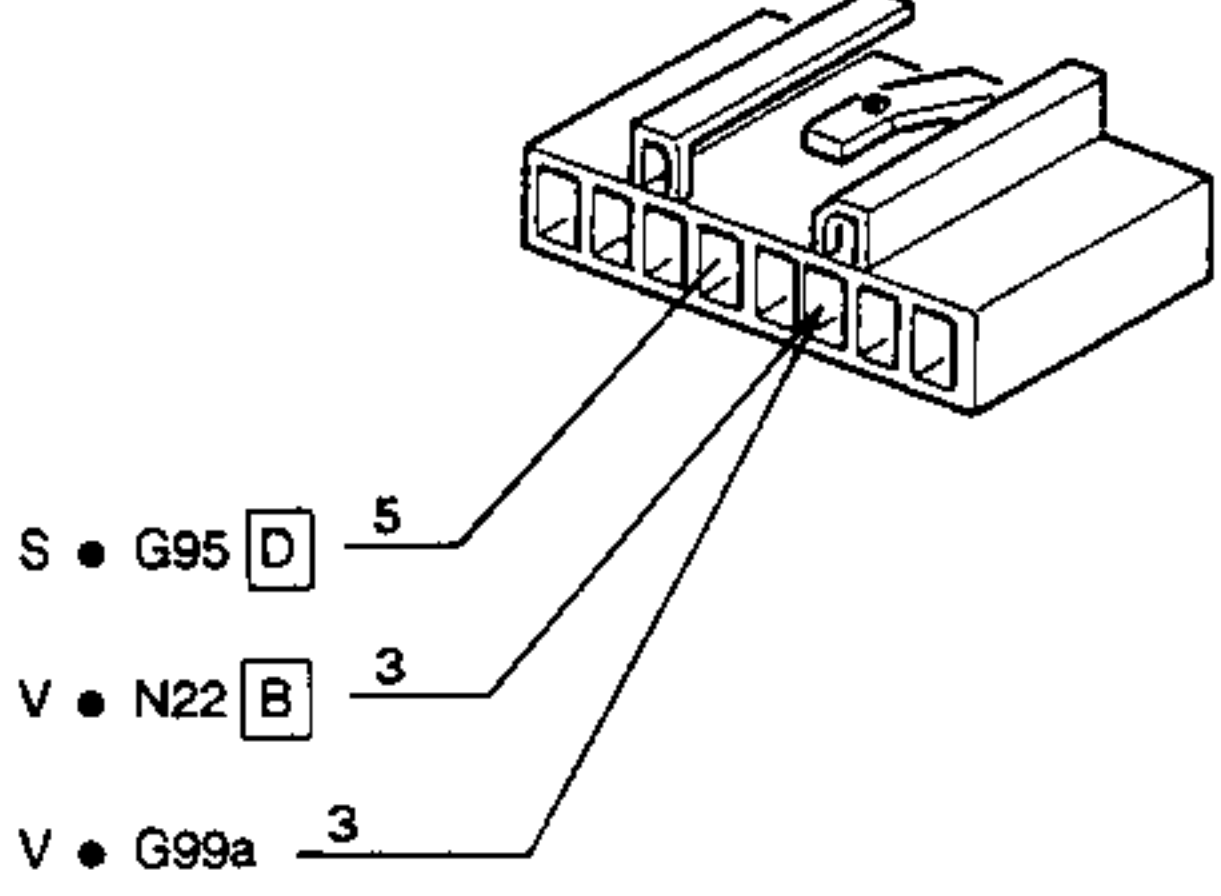
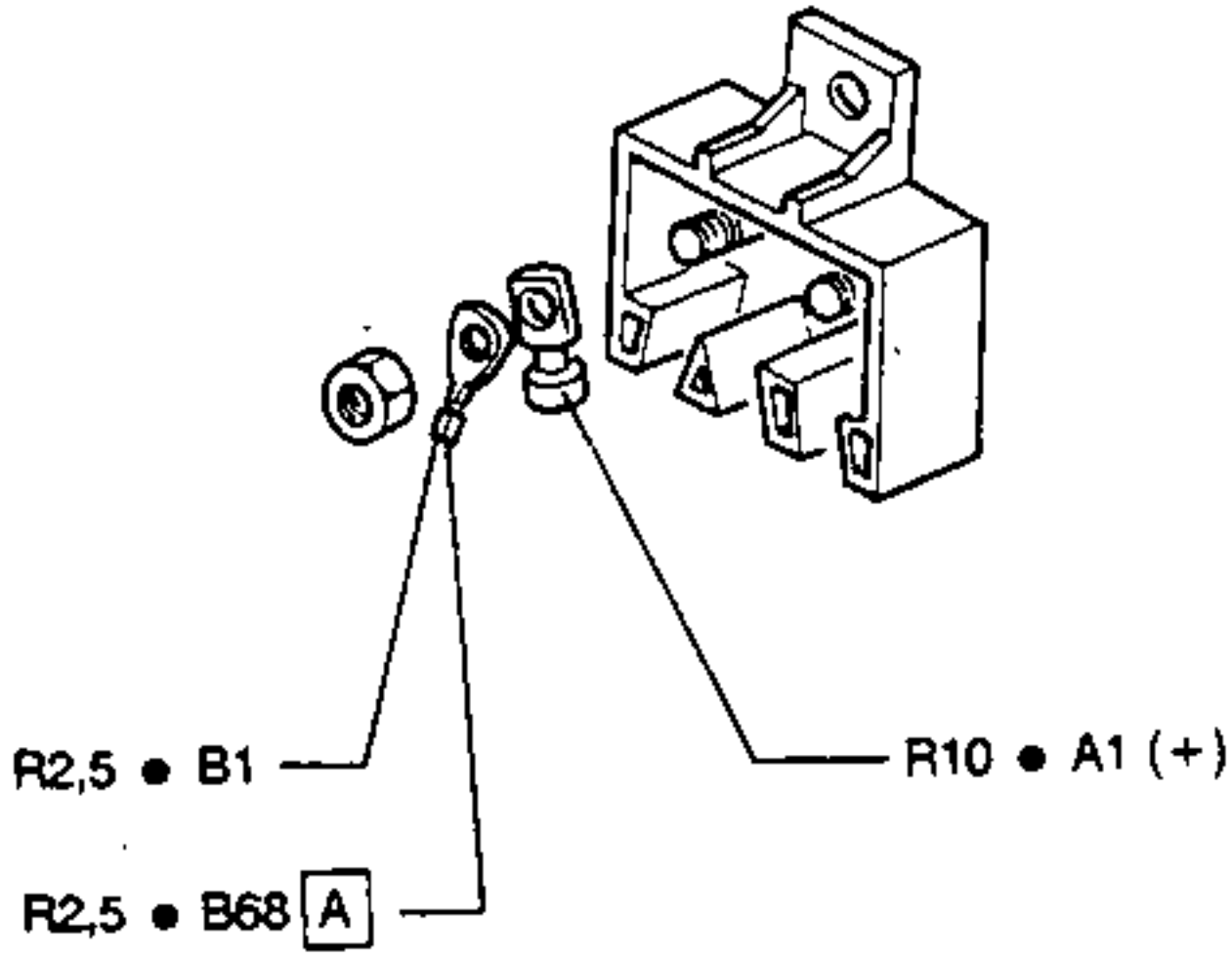
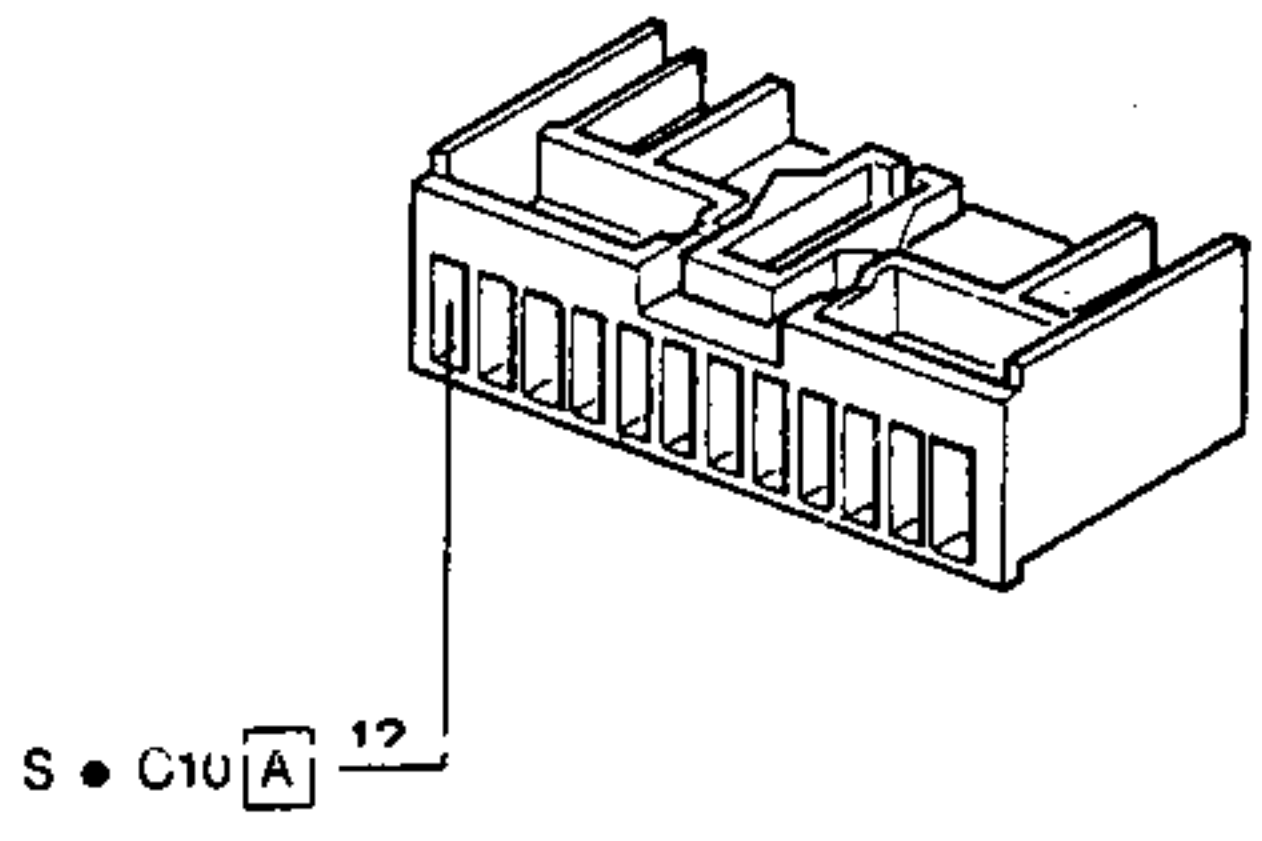


# ELECTRICAL SYSTEM

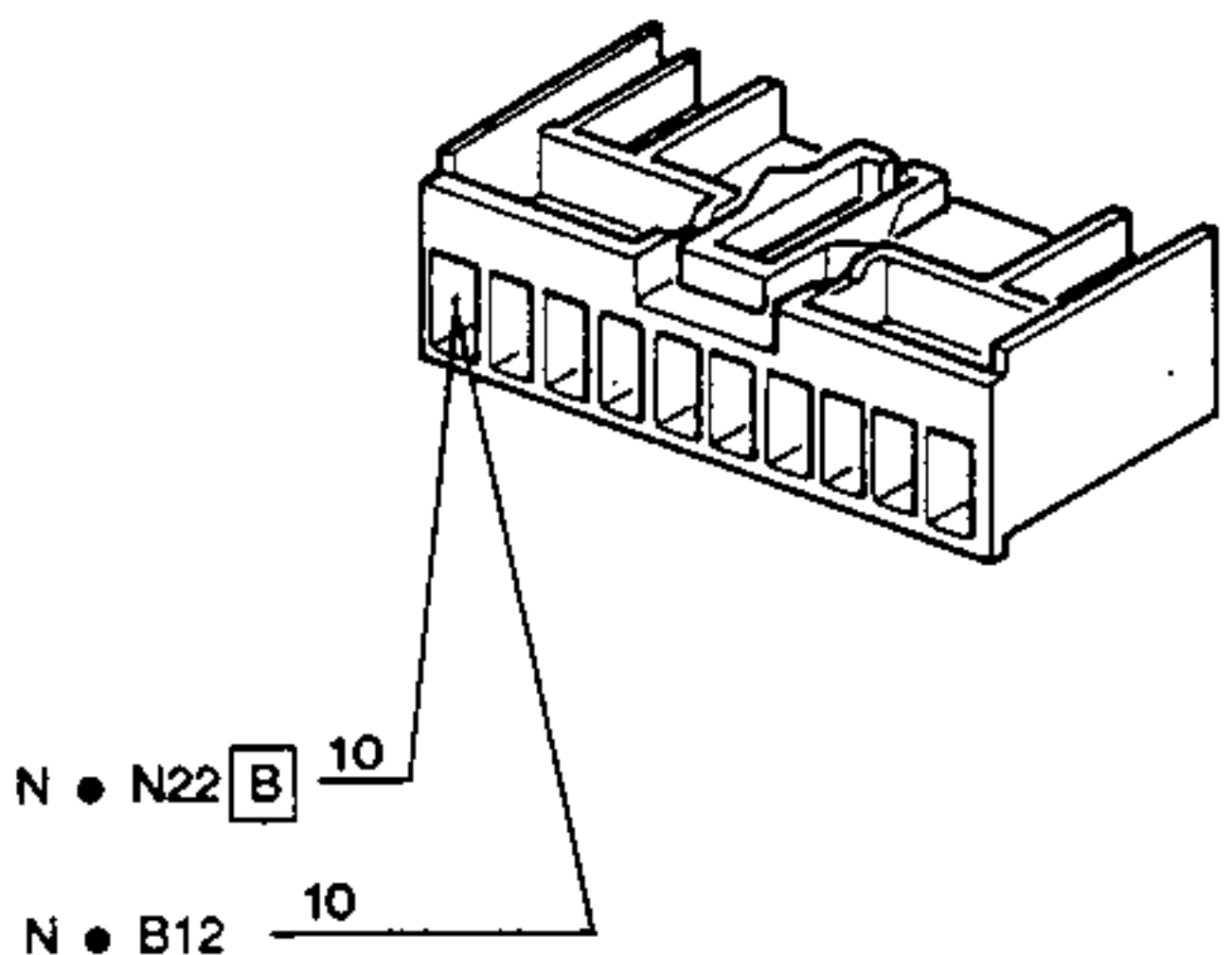
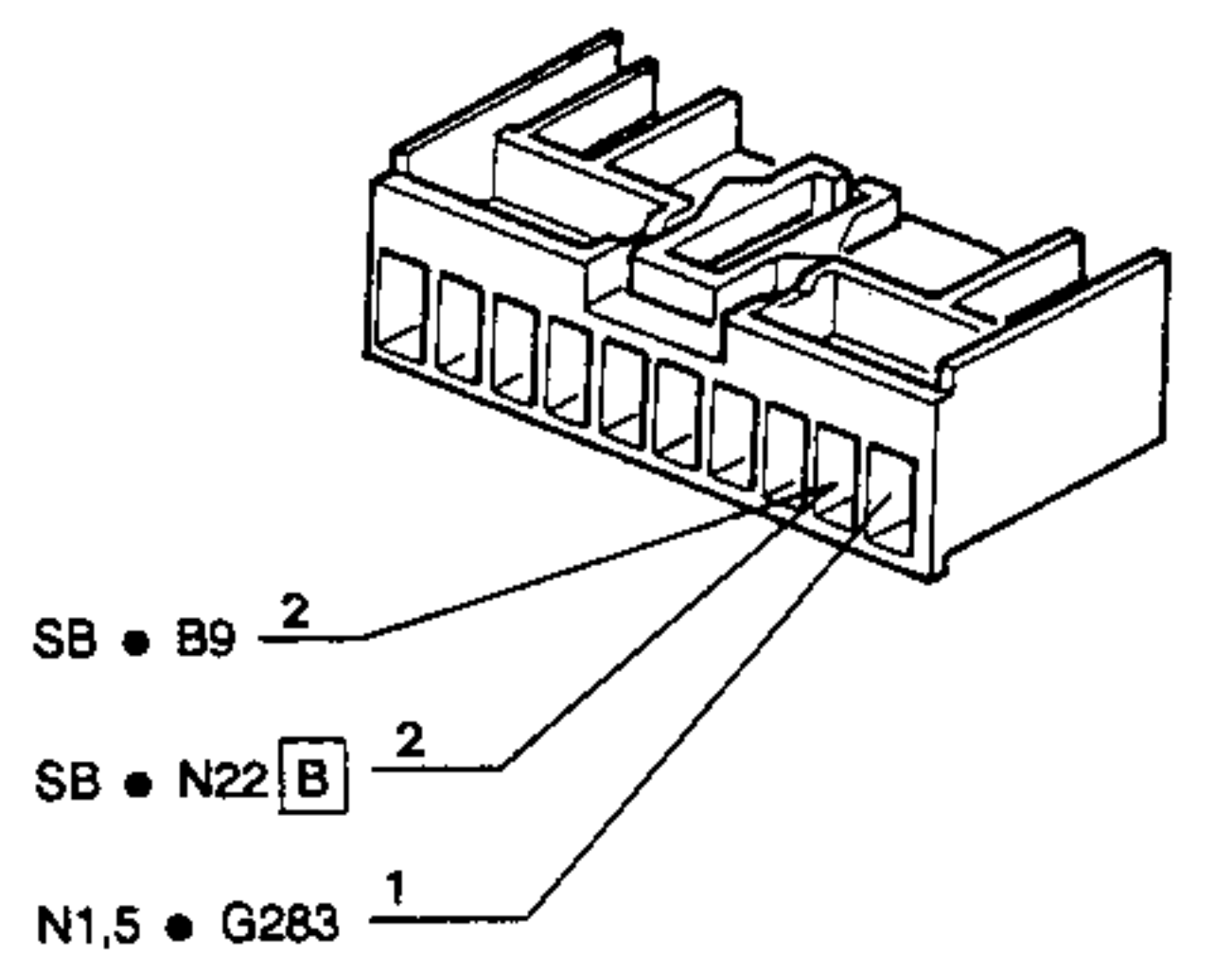
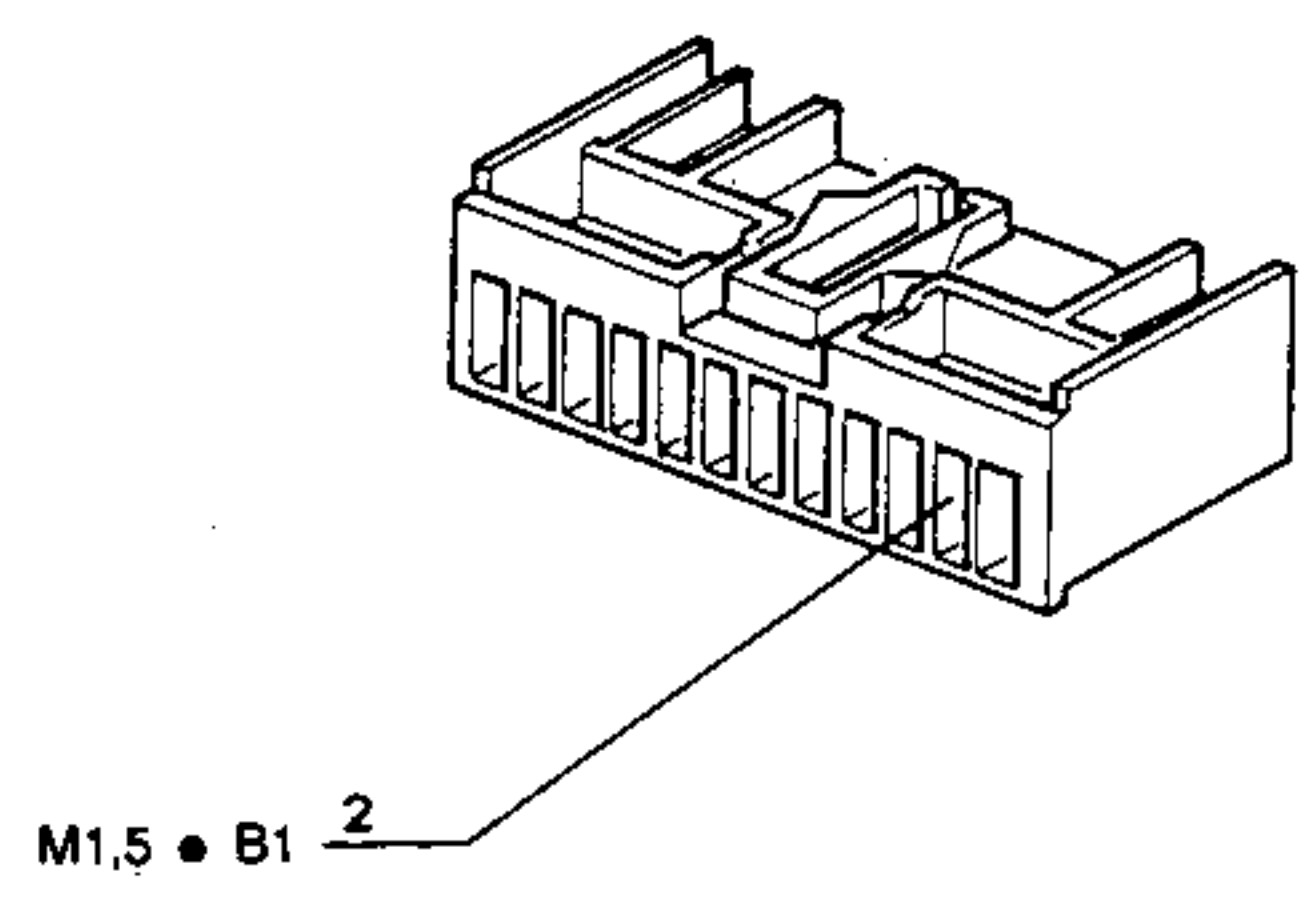
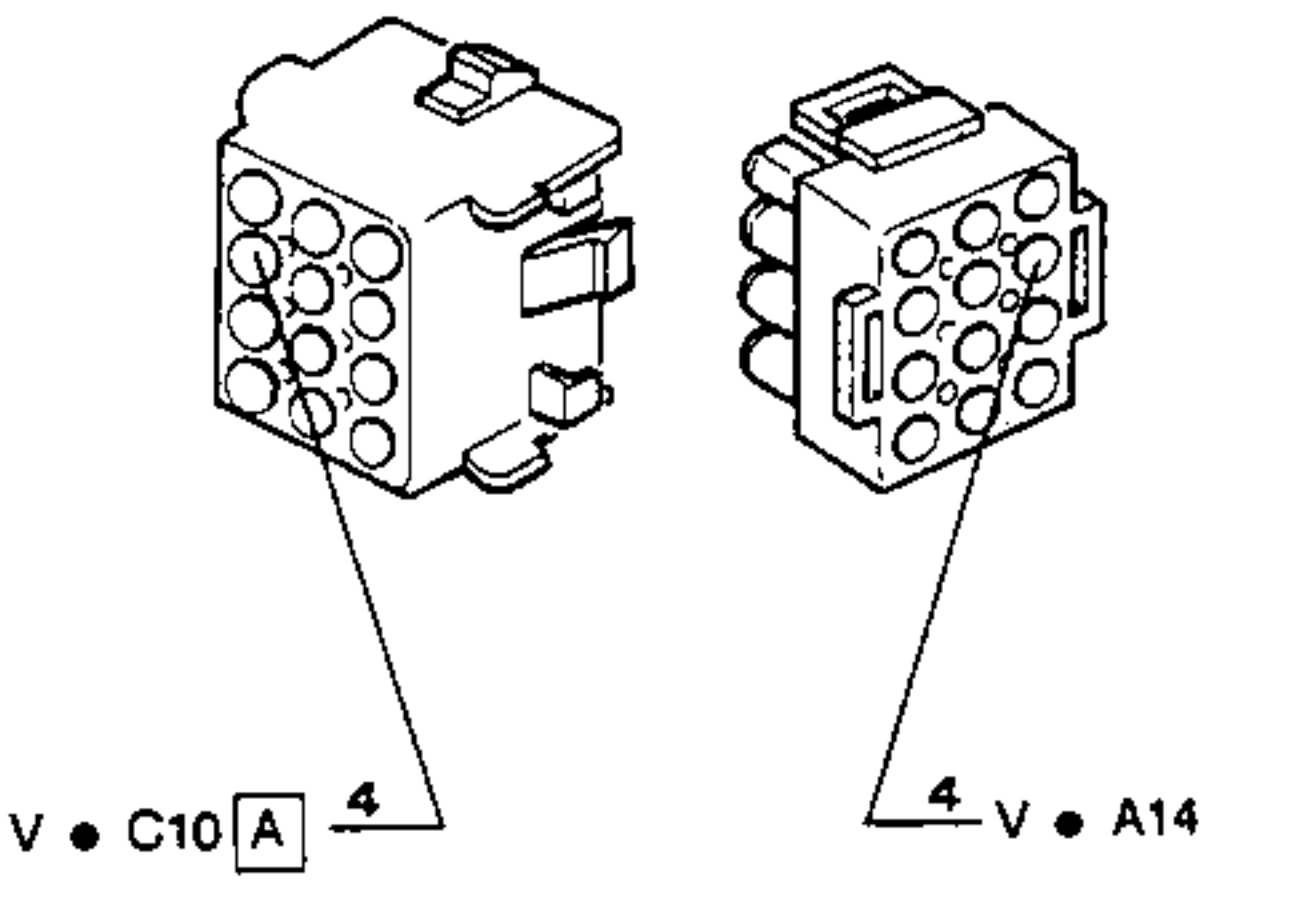
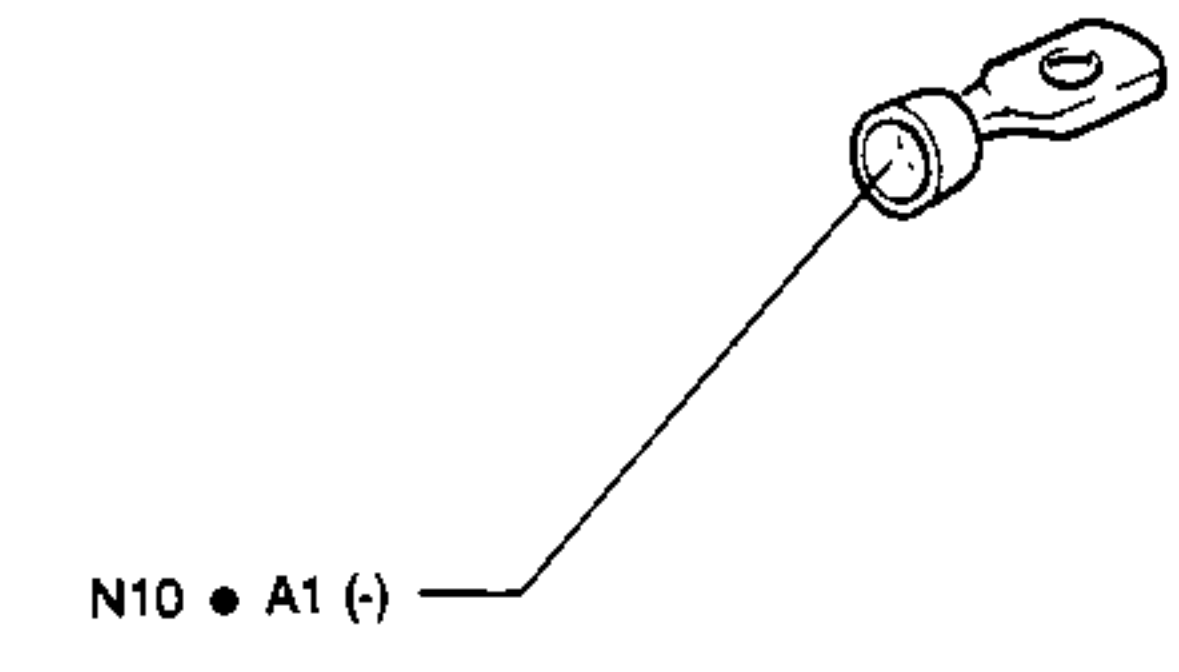
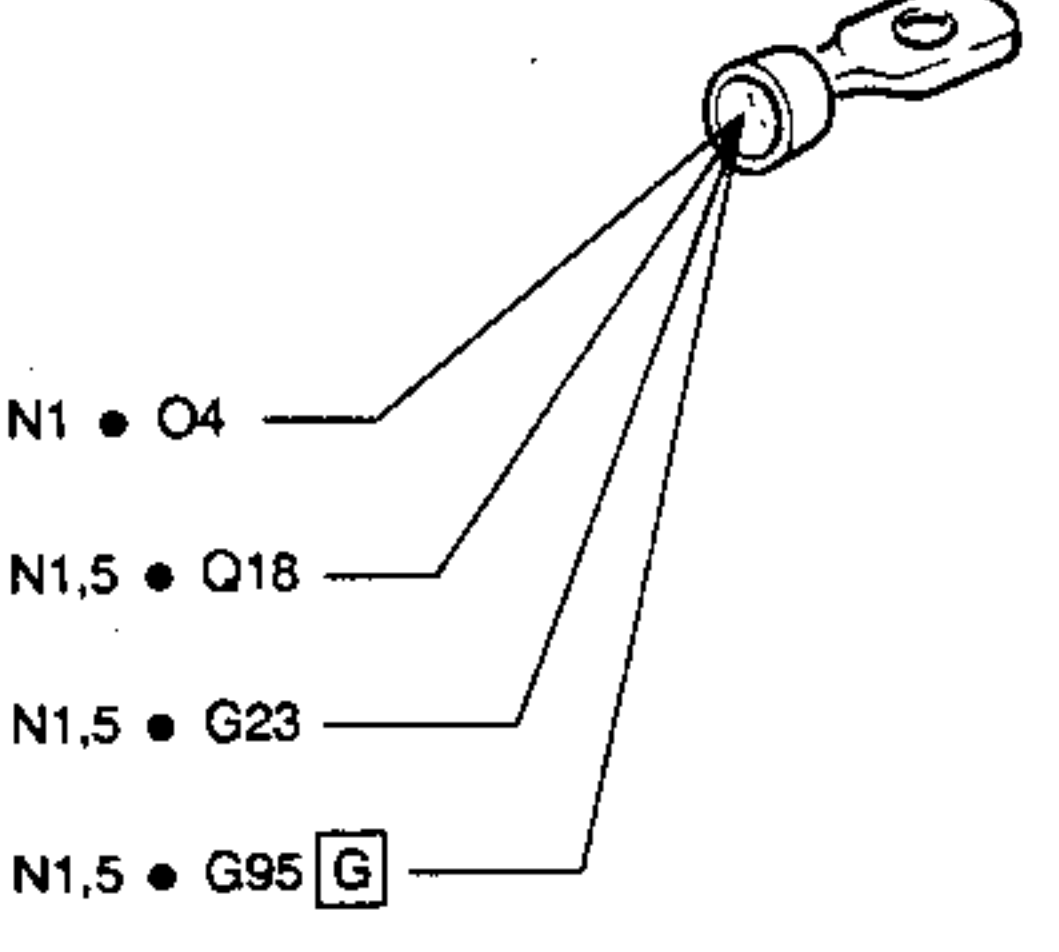
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N20 • To engine N10 • G143</p>	33.90.002
Battery (+)	A1	Alternator with integral electronic regulator	A3
 <p>N10 • A11</p>	33.90.002	 <p>V • A14 R6 • A11 R6 • A11</p>	33.90.070
Starter motor (+ 30)	A11	Starter motor (+ 30)	A11
 <p>R6 • A3</p>	33.90.032	 <p>R6 • A3</p>	33.90.032

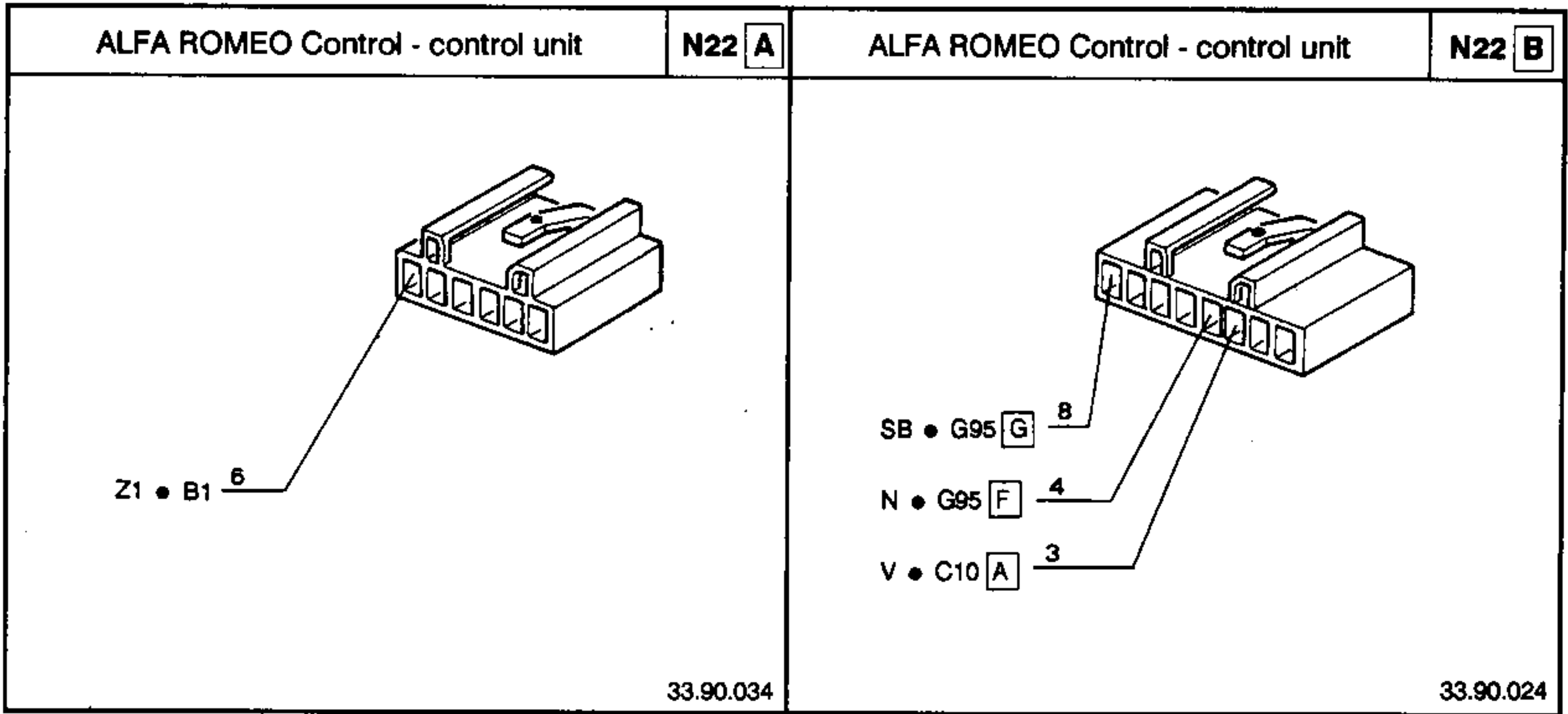
# ELECTRICAL SYSTEM

<b>Starter motor</b>	<b>A11</b>	<b>Alternator cable terminal board</b>	<b>A14</b>
 <p style="margin-top: 10px;">N10 • A1 (+)</p>	 <p style="margin-top: 10px;">V • A3      V • G99a</p>	<small>33.90.006</small>	<small>33.90.071</small>
<b>Ignition switch</b>	<b>B1</b>	<b>Instrument panel</b>	<b>C10 A</b>
 <p style="margin-top: 10px;">R2,5 • G56 <span style="border: 1px solid black; padding: 0 2px;">3</span>  Z1 • N22 <span style="border: 1px solid black; padding: 0 2px;">4</span>  N1,5 • G99a <span style="border: 1px solid black; padding: 0 2px;">4</span>  VN1,5 • G99a <span style="border: 1px solid black; padding: 0 2px;">2</span>  M1,5 • G95 <span style="border: 1px solid black; padding: 0 2px;">H</span></p>	 <p style="margin-top: 10px;">S • G95 <span style="border: 1px solid black; padding: 0 2px;">D</span> <span style="border: 1px solid black; padding: 0 2px;">5</span>  V • N22 <span style="border: 1px solid black; padding: 0 2px;">B</span> <span style="border: 1px solid black; padding: 0 2px;">3</span>  V • G99a <span style="border: 1px solid black; padding: 0 2px;">3</span></p>	<small>33.90.028</small>	<small>33.90.024</small>
<b>Branch terminal board</b>	<b>G56</b>	<b>Central fusebox</b>	<b>G95 D</b>
 <p style="margin-top: 10px;">R2,5 • B1  R2,5 • B68 <span style="border: 1px solid black; padding: 0 2px;">A</span>  R10 • A1 (+)</p>	 <p style="margin-top: 10px;">S • C10 <span style="border: 1px solid black; padding: 0 2px;">A</span> <span style="border: 1px solid black; padding: 0 2px;">12</span></p>	<small>33.90.066</small>	<small>33.90.004</small>

# ELECTRICAL SYSTEM

<p><b>Central fusebox</b> <span style="float: right;"><b>G95 F</b></span></p>  <p style="text-align: right;">33.90.005</p>	<p><b>Central fusebox</b> <span style="float: right;"><b>G95 G</b></span></p>  <p style="text-align: right;">33.90.005</p>
<p><b>Central fusebox</b> <span style="float: right;"><b>G95 H</b></span></p>  <p style="text-align: right;">33.90.004</p>	<p><b>Connector for engine dashboard A</b> <span style="float: right;"><b>G99a</b></span></p>  <p style="text-align: right;">33.90.016</p>
<p><b>Central service compartment earth</b> <span style="float: right;"><b>G143</b></span></p>  <p style="text-align: right;">33.90.001</p>	<p><b>Earth on left service compartment</b> <span style="float: right;"><b>G283</b></span></p>  <p style="text-align: right;">33.90.001</p>

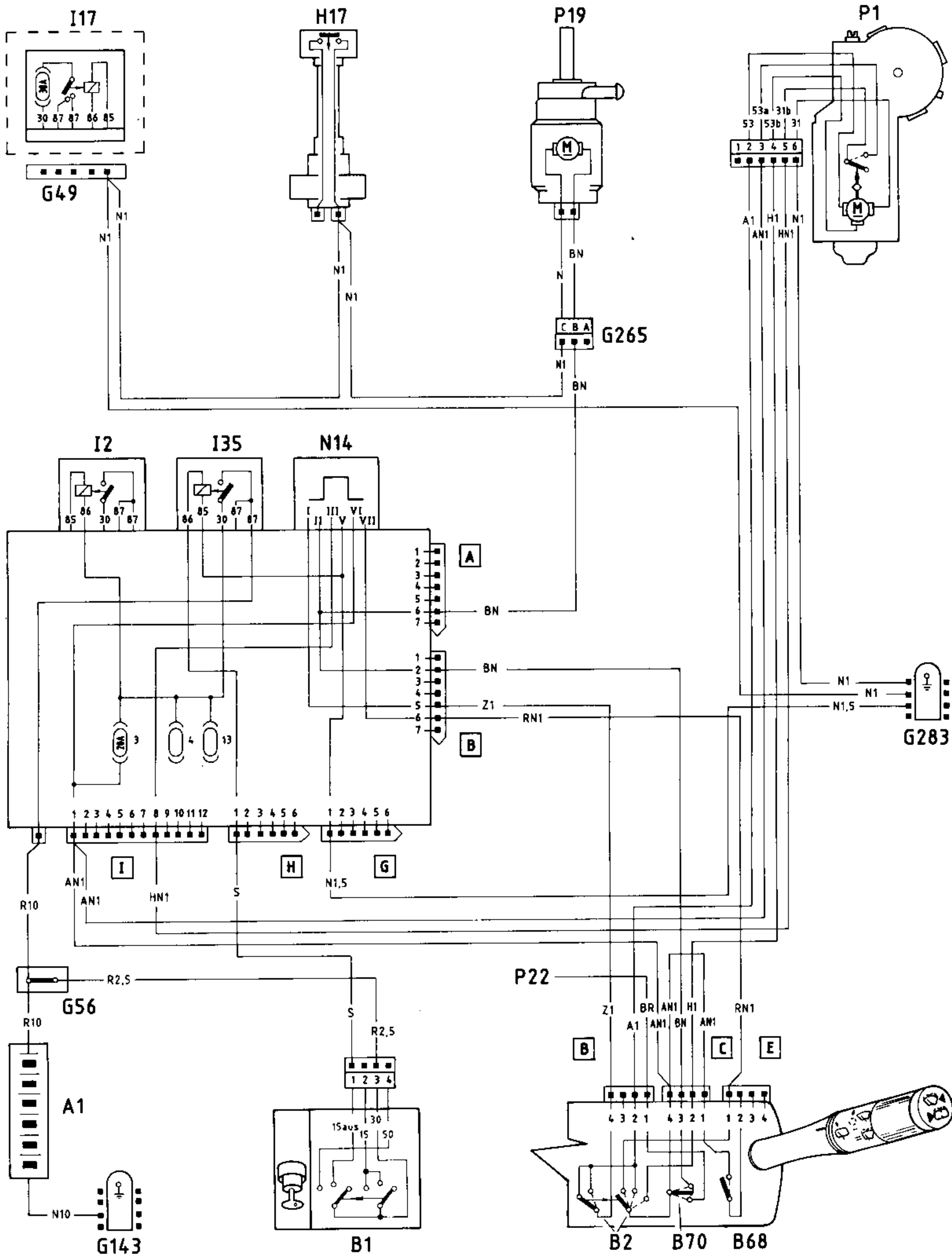
# ELECTRICAL SYSTEM



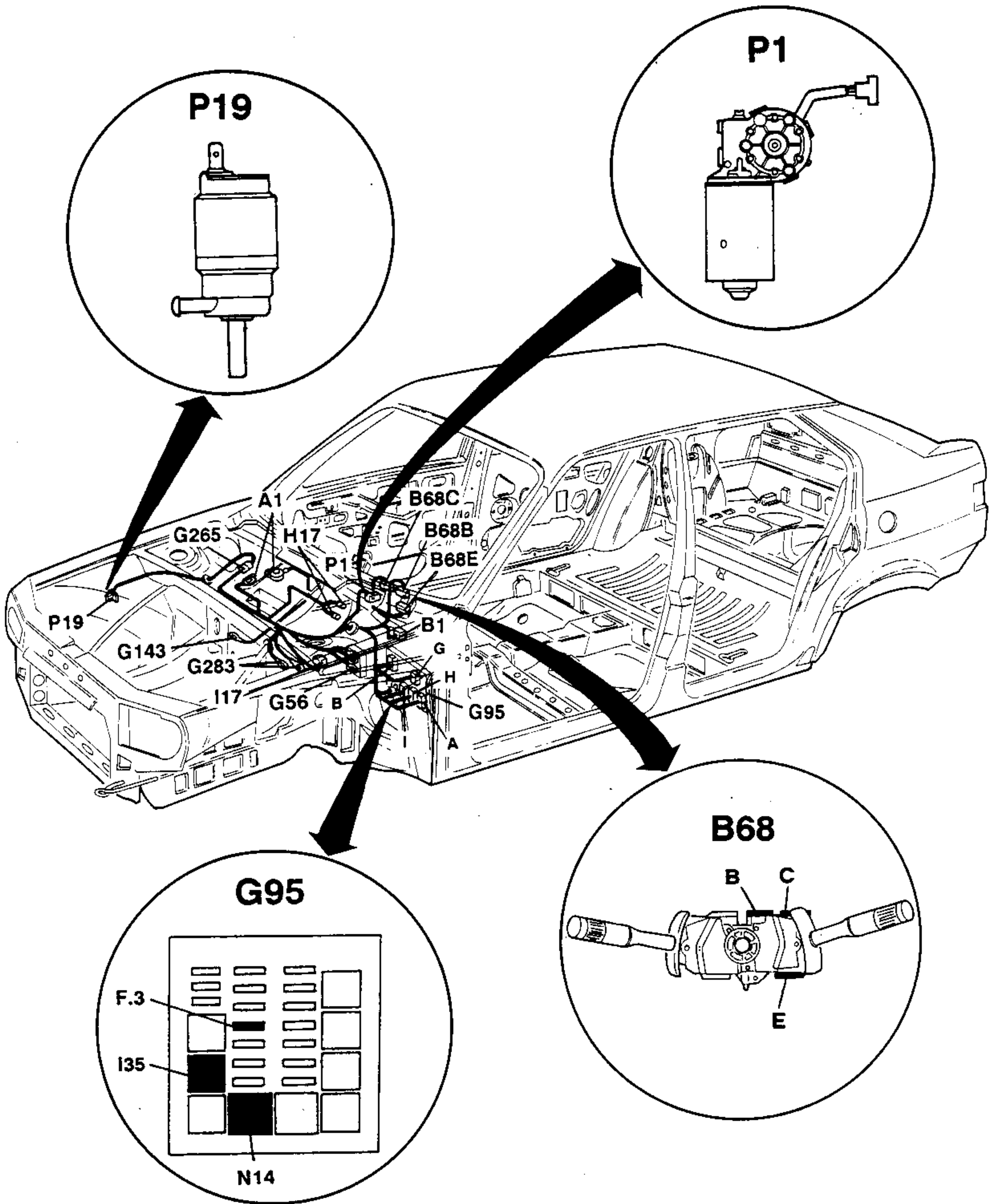
# ELECTROMECHANICAL DEVICES AND INTERMITTENCES

## WINDSCREEN WASHER/WIPER

### Wiring diagram

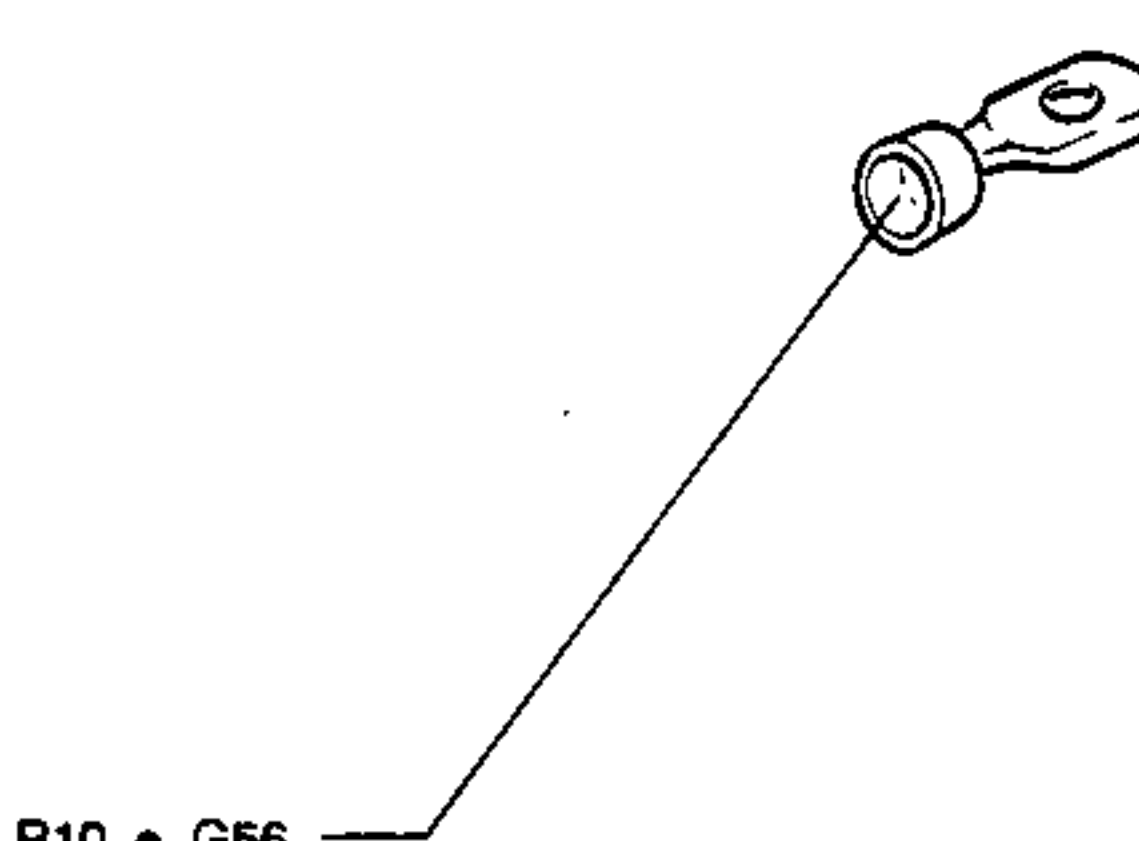
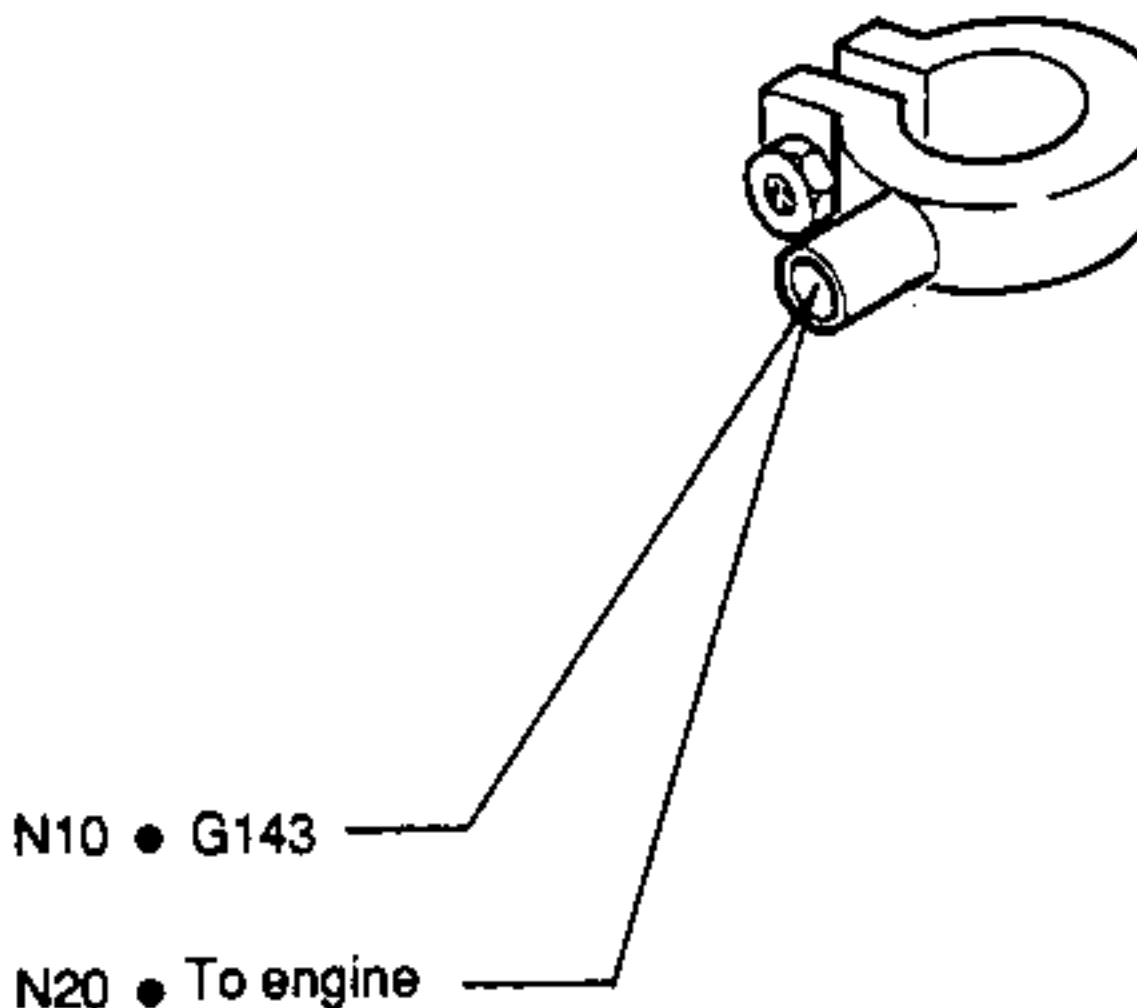
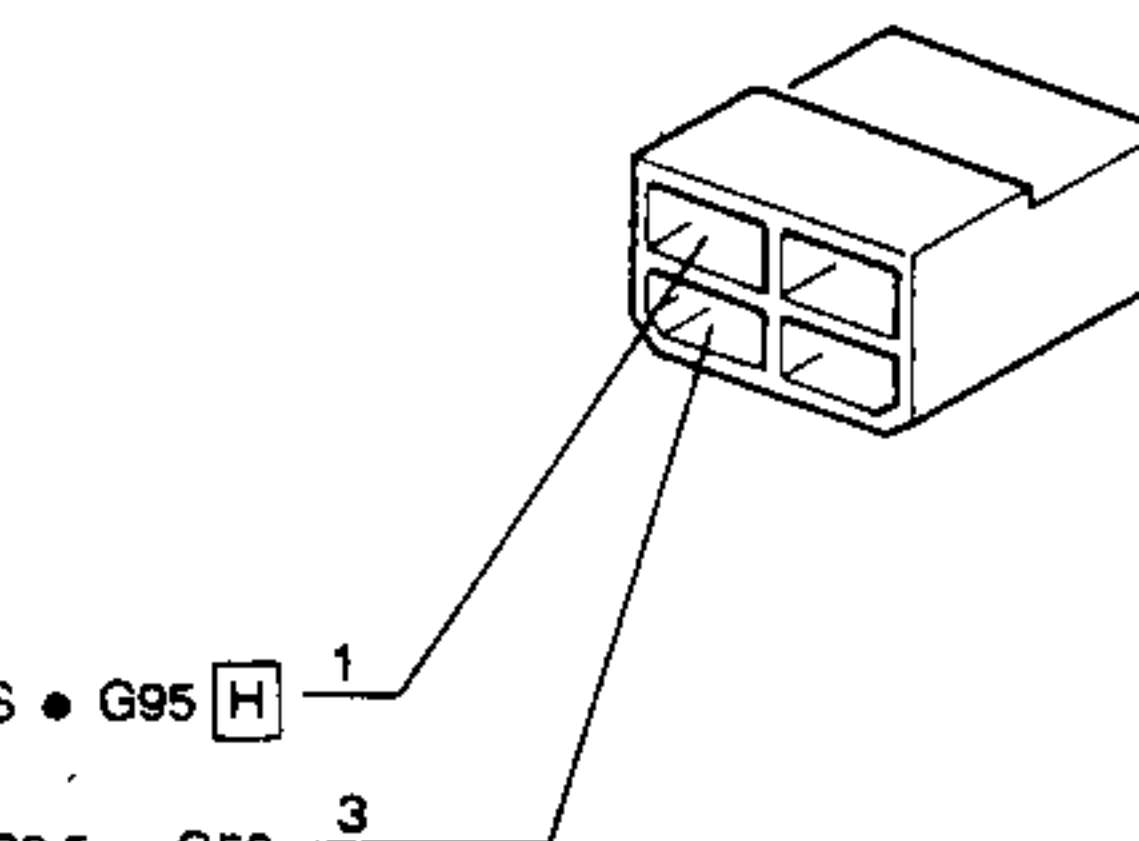
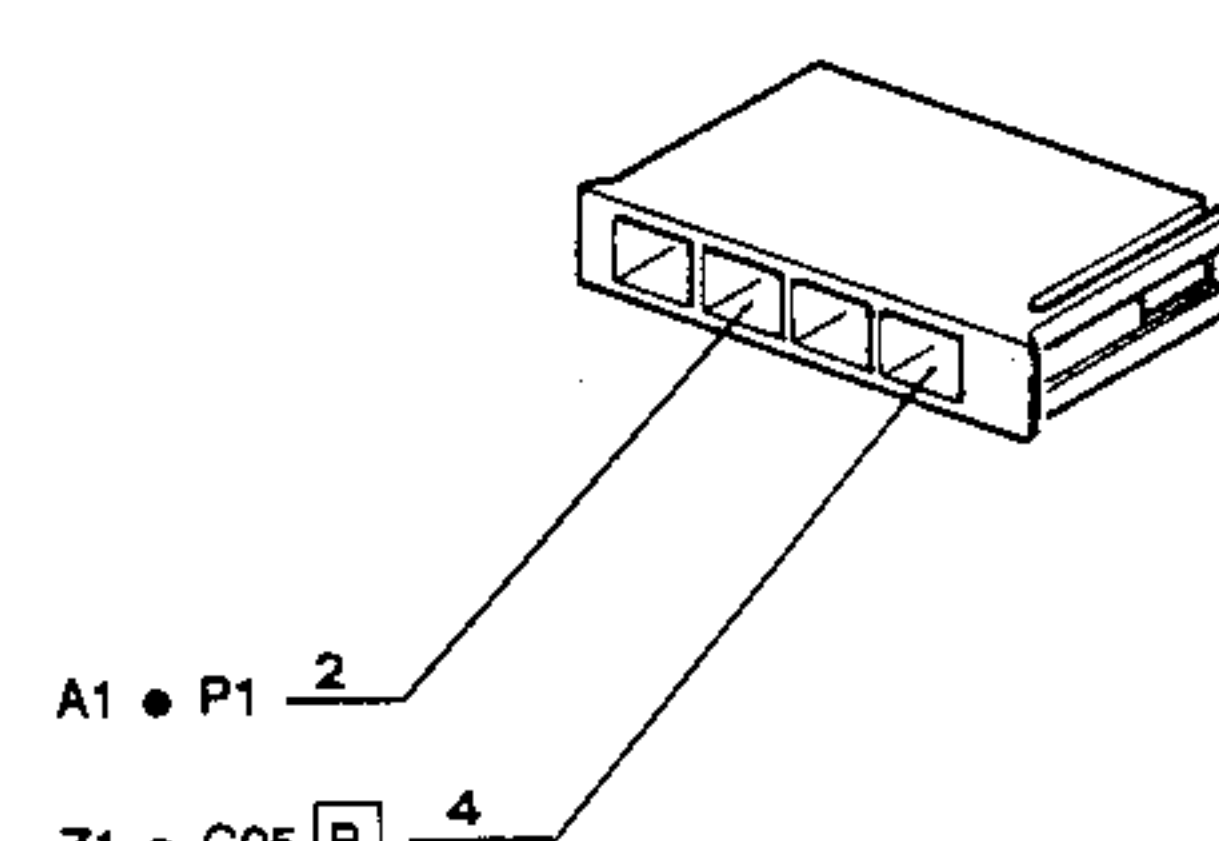
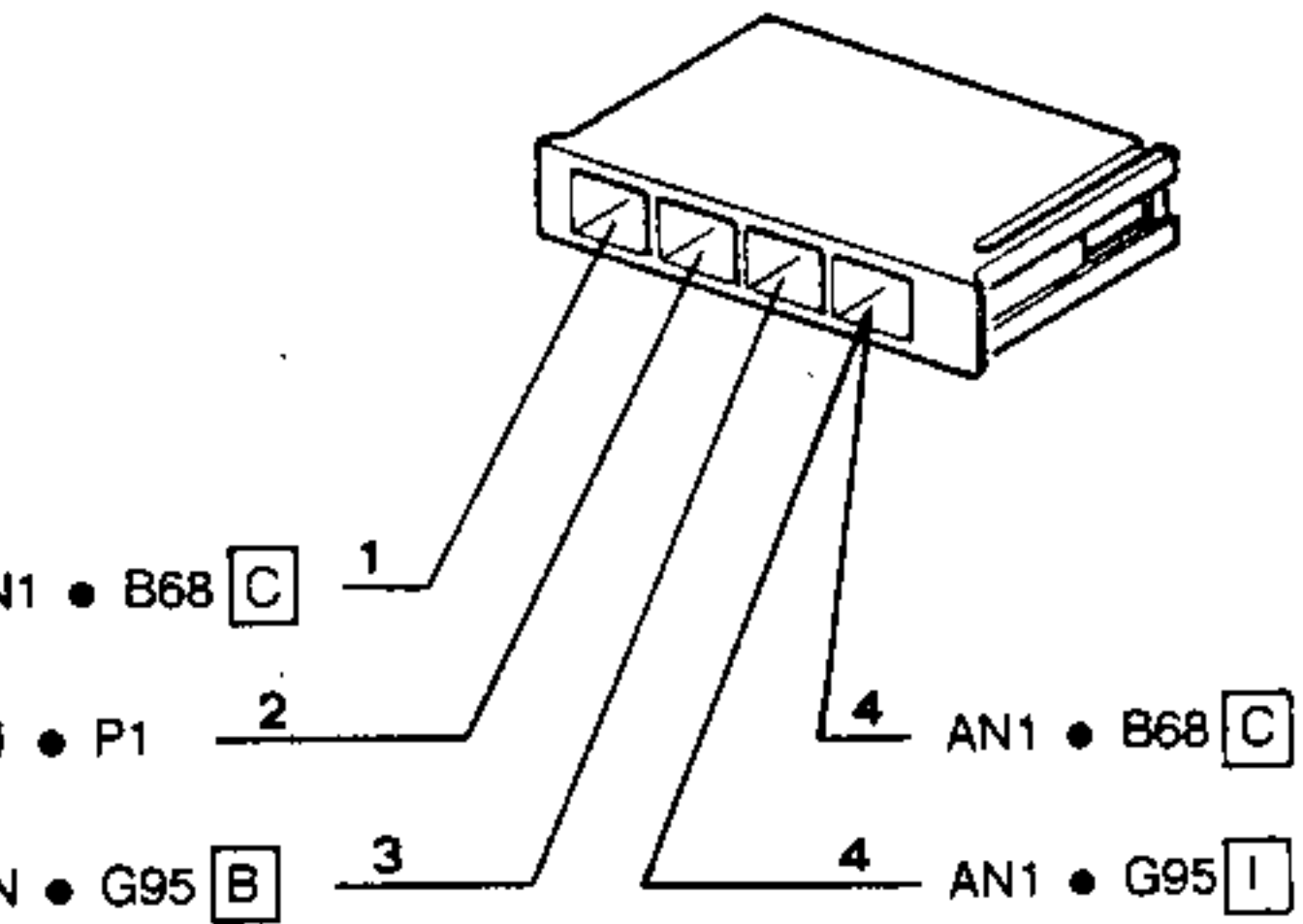
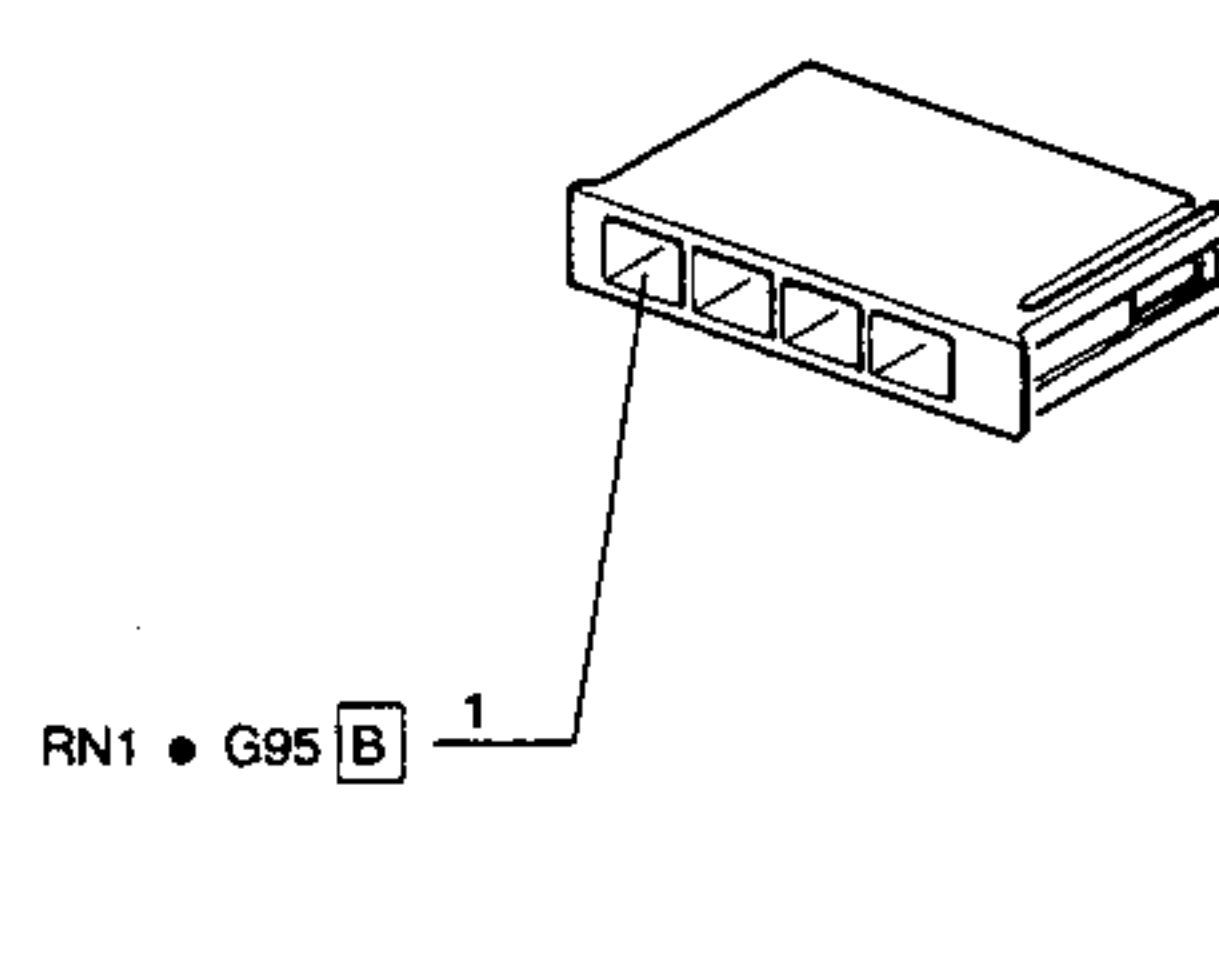


Wiring

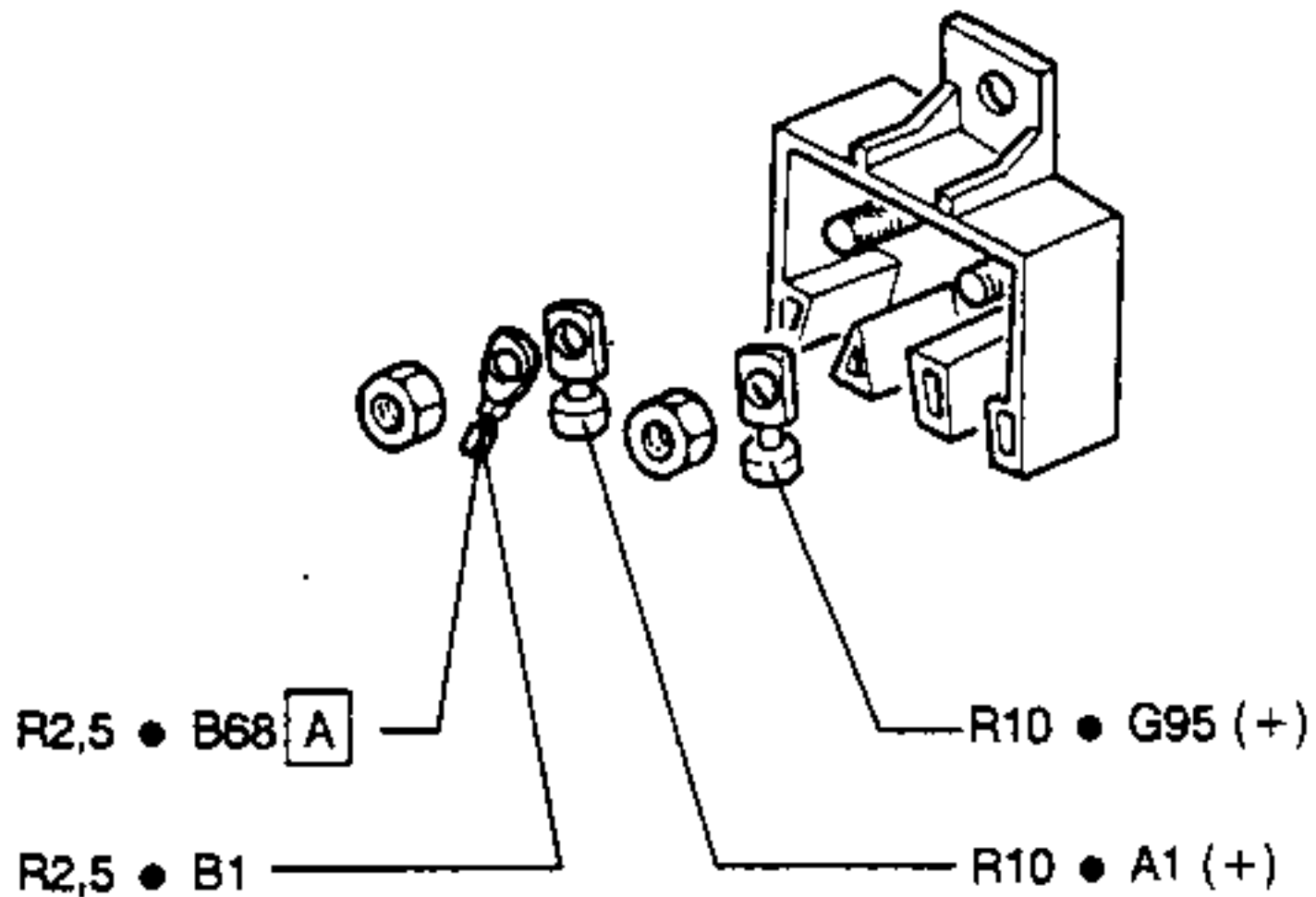
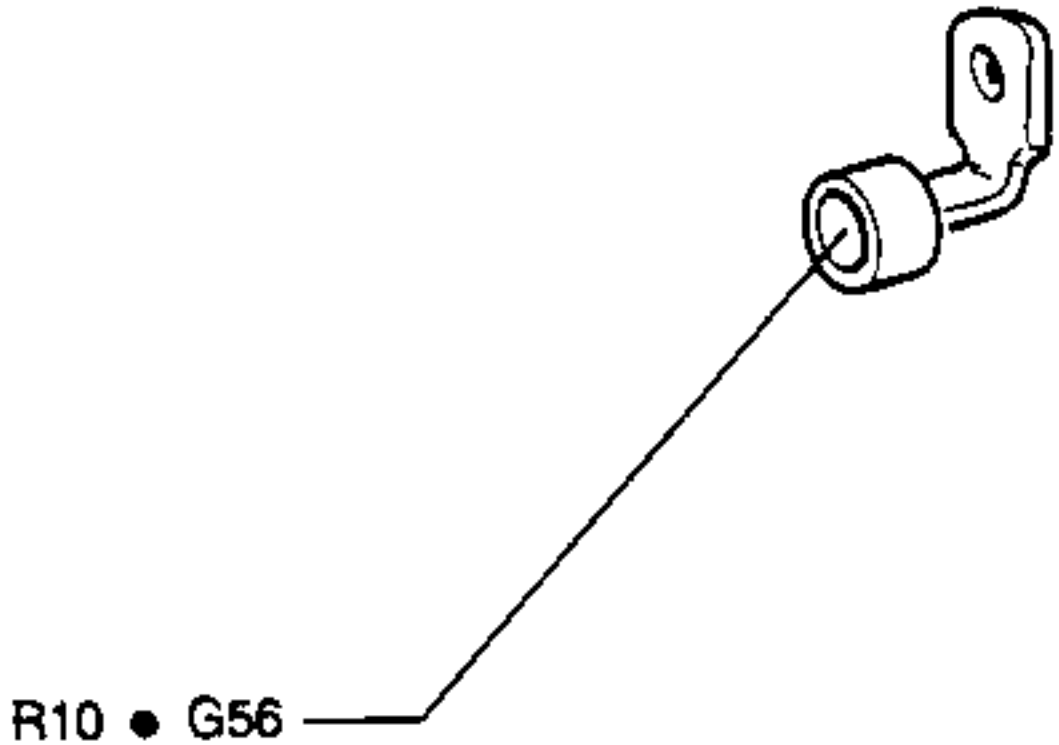
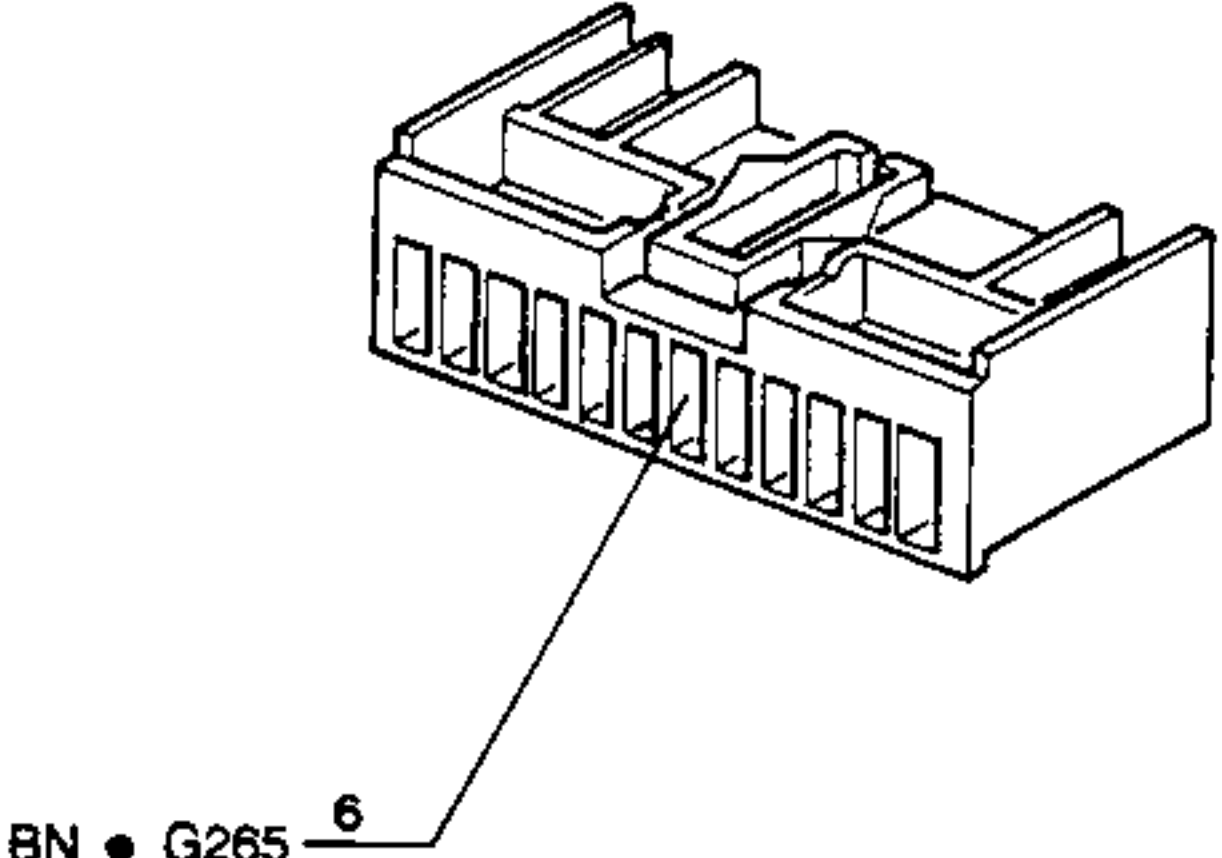
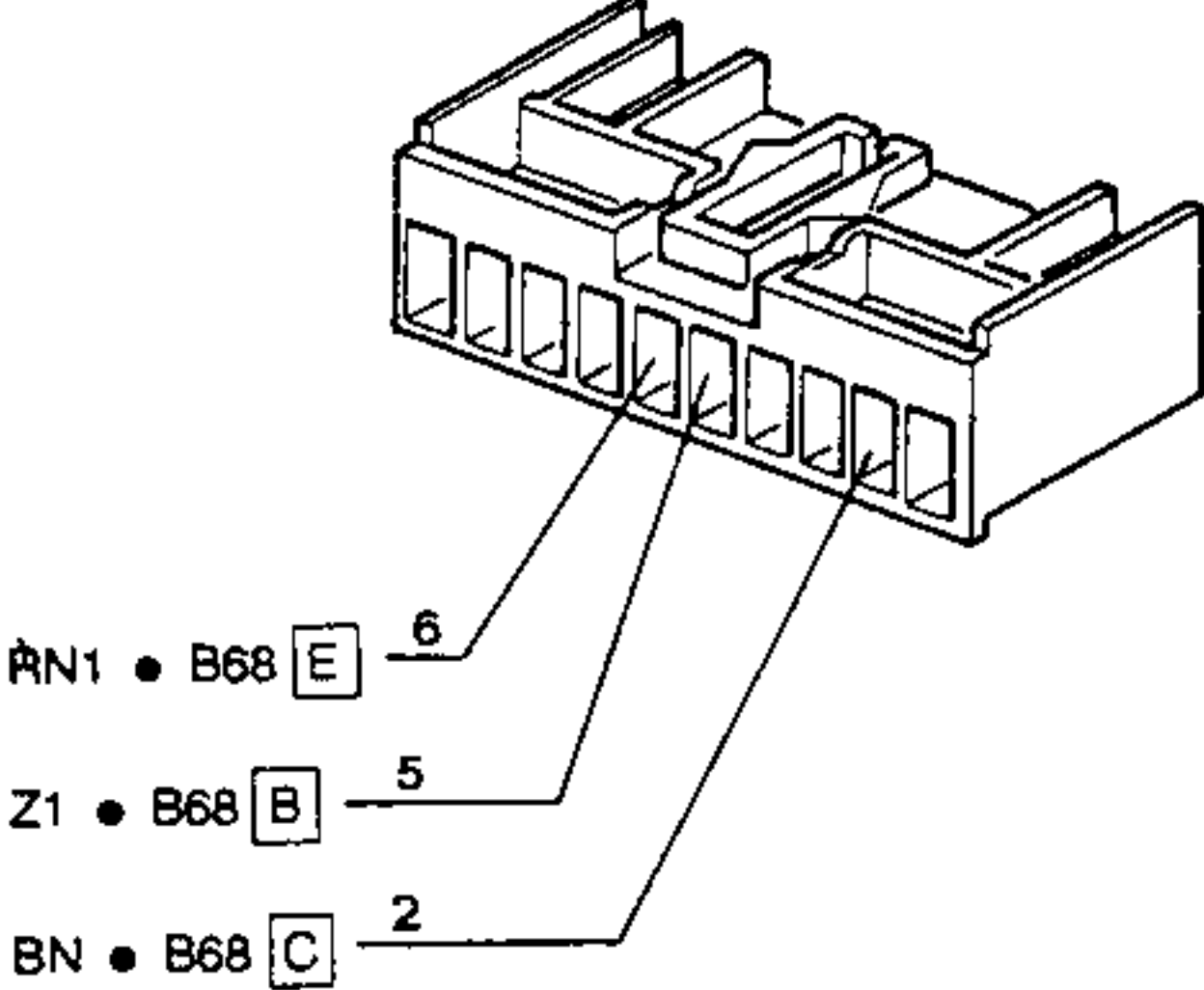
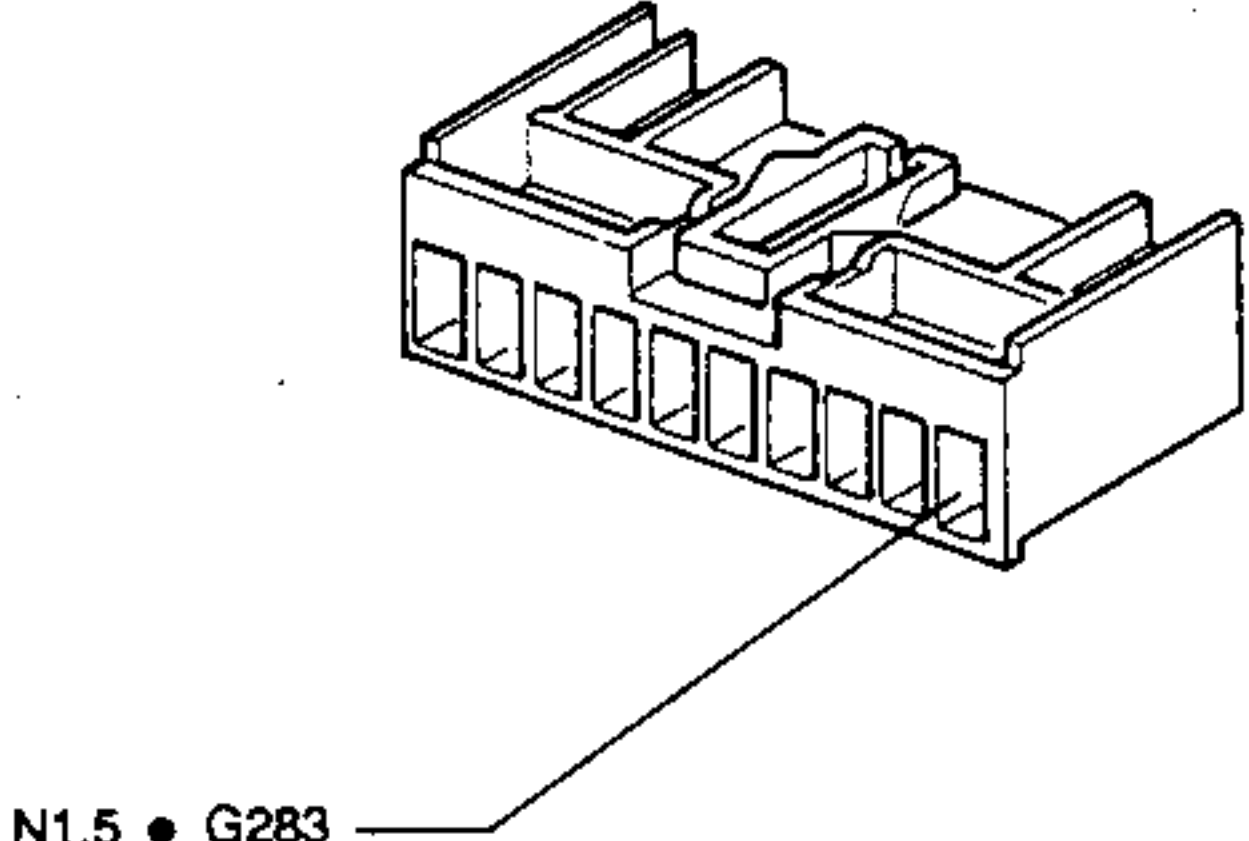
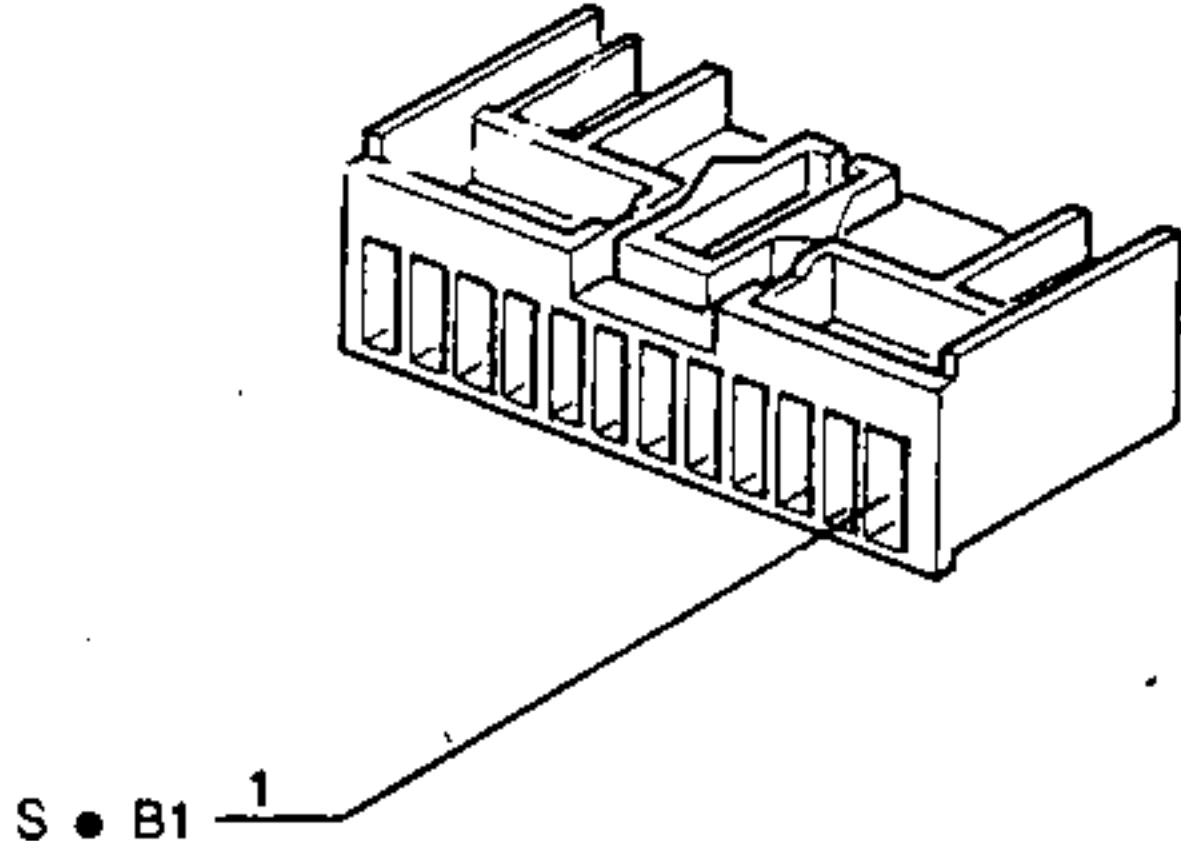




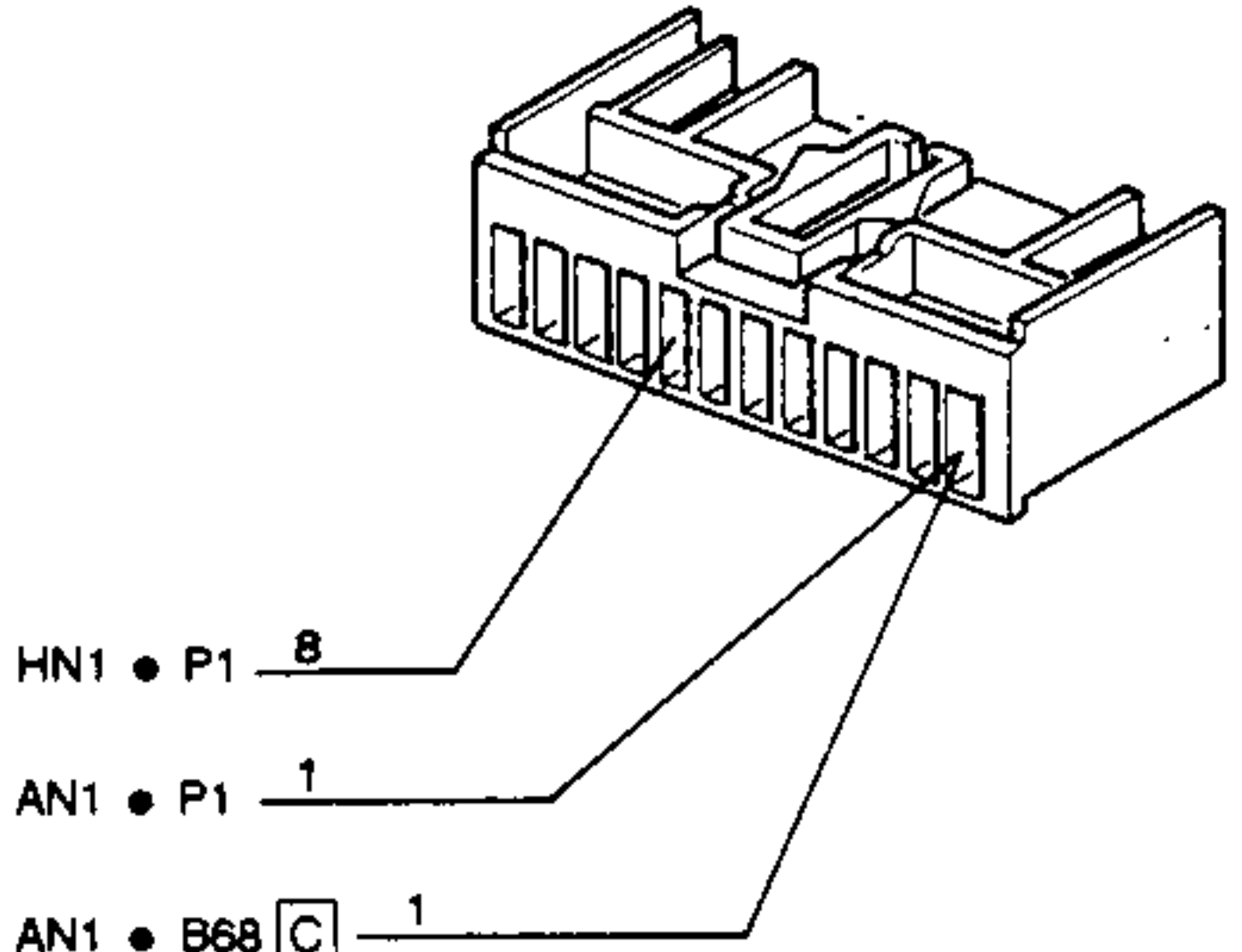
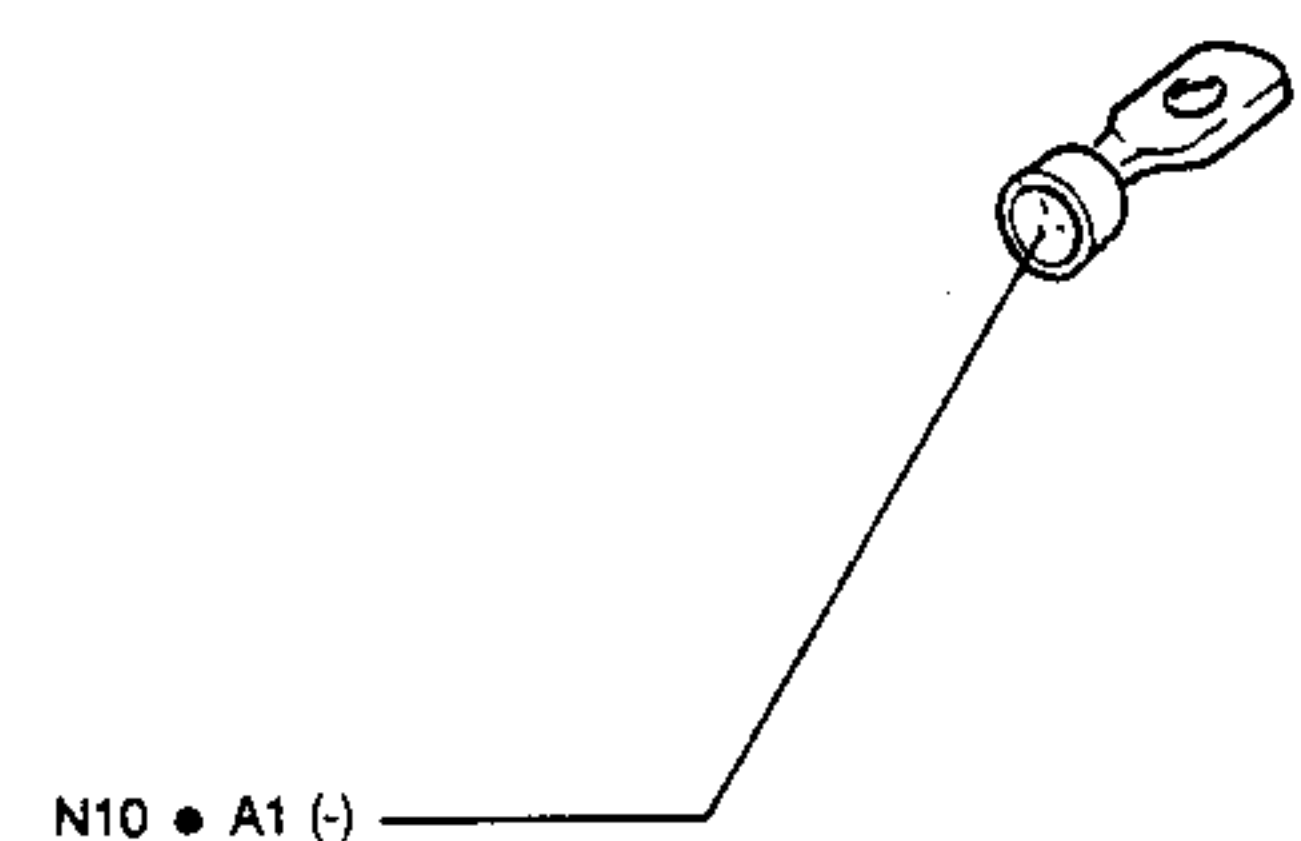
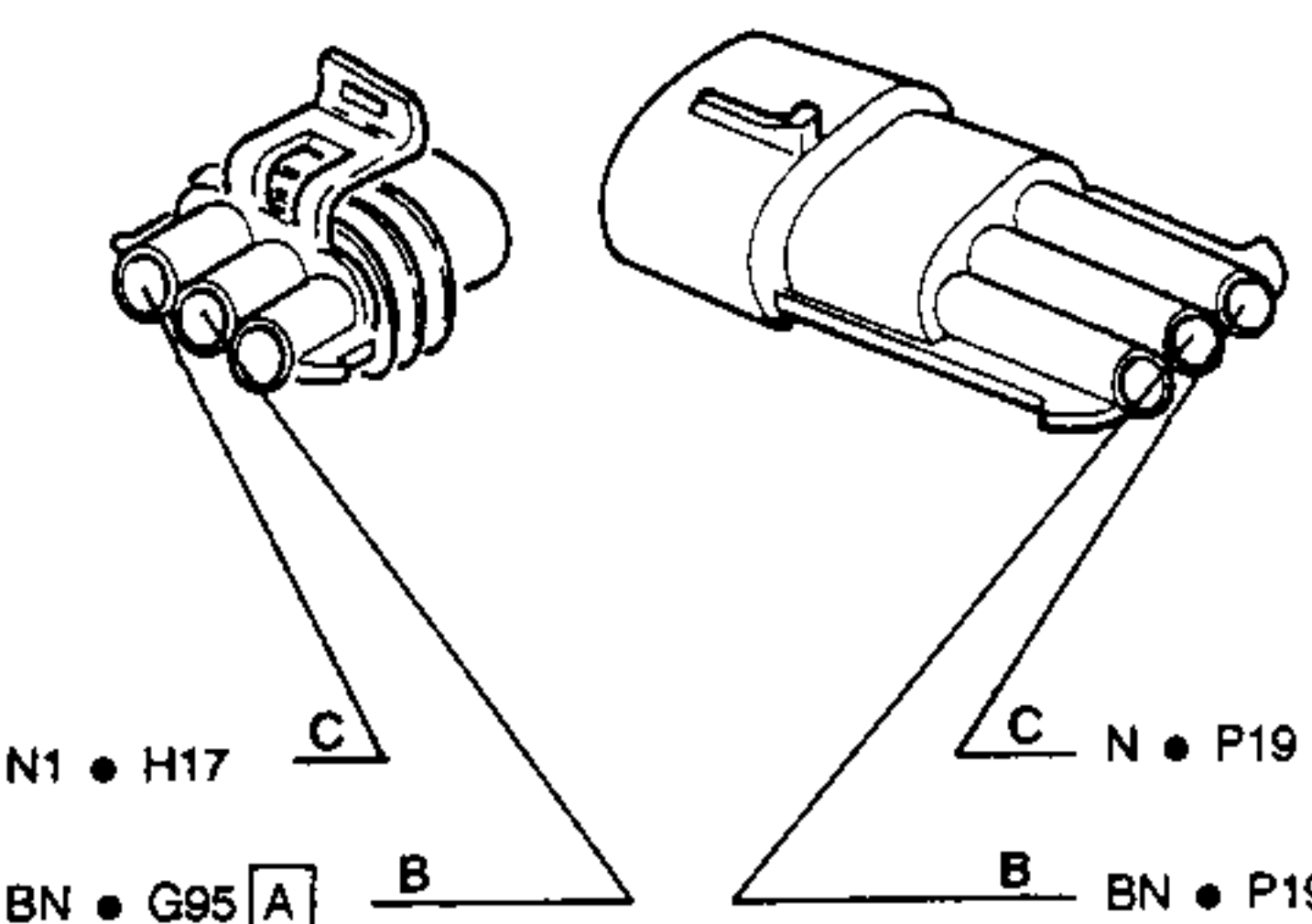
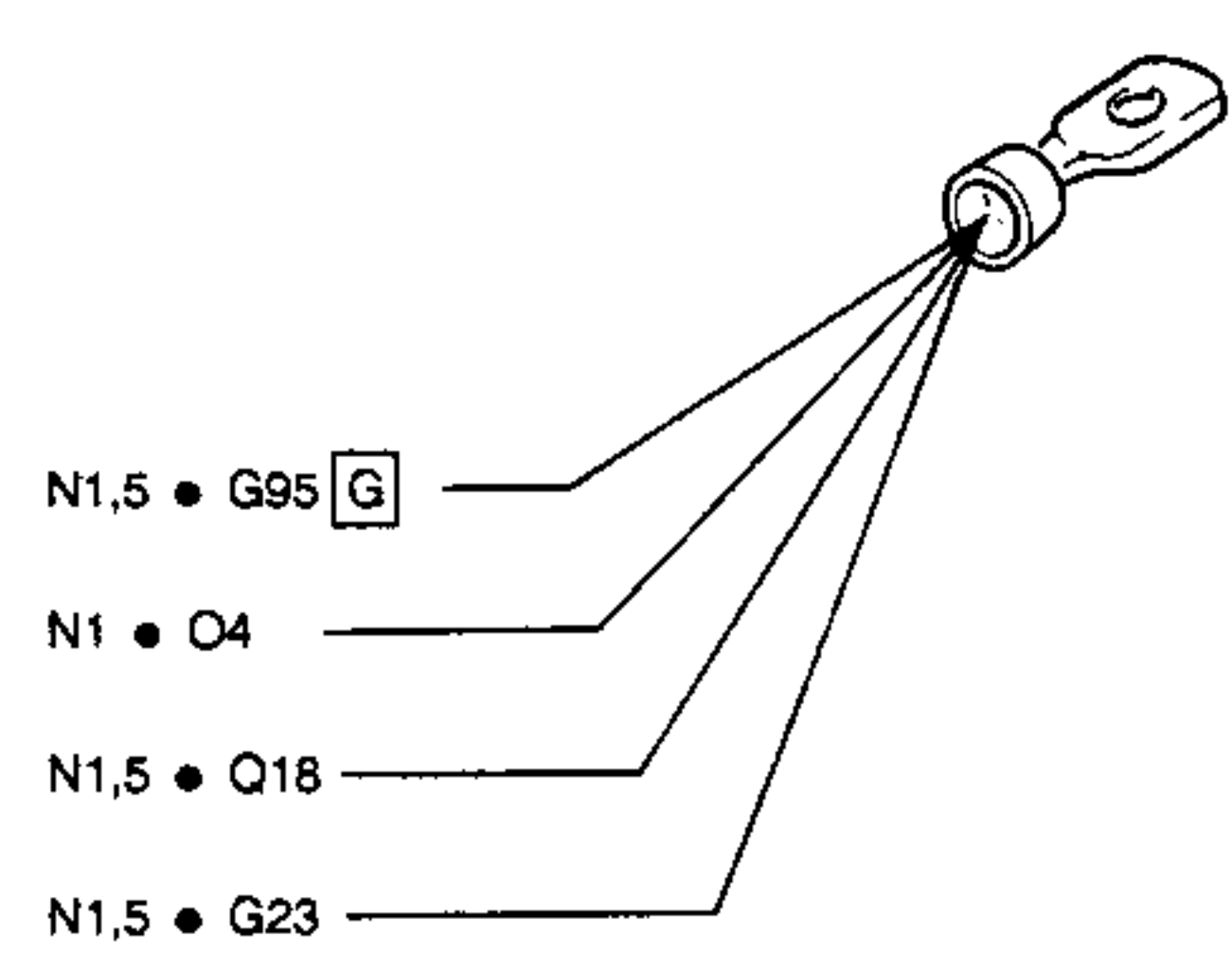
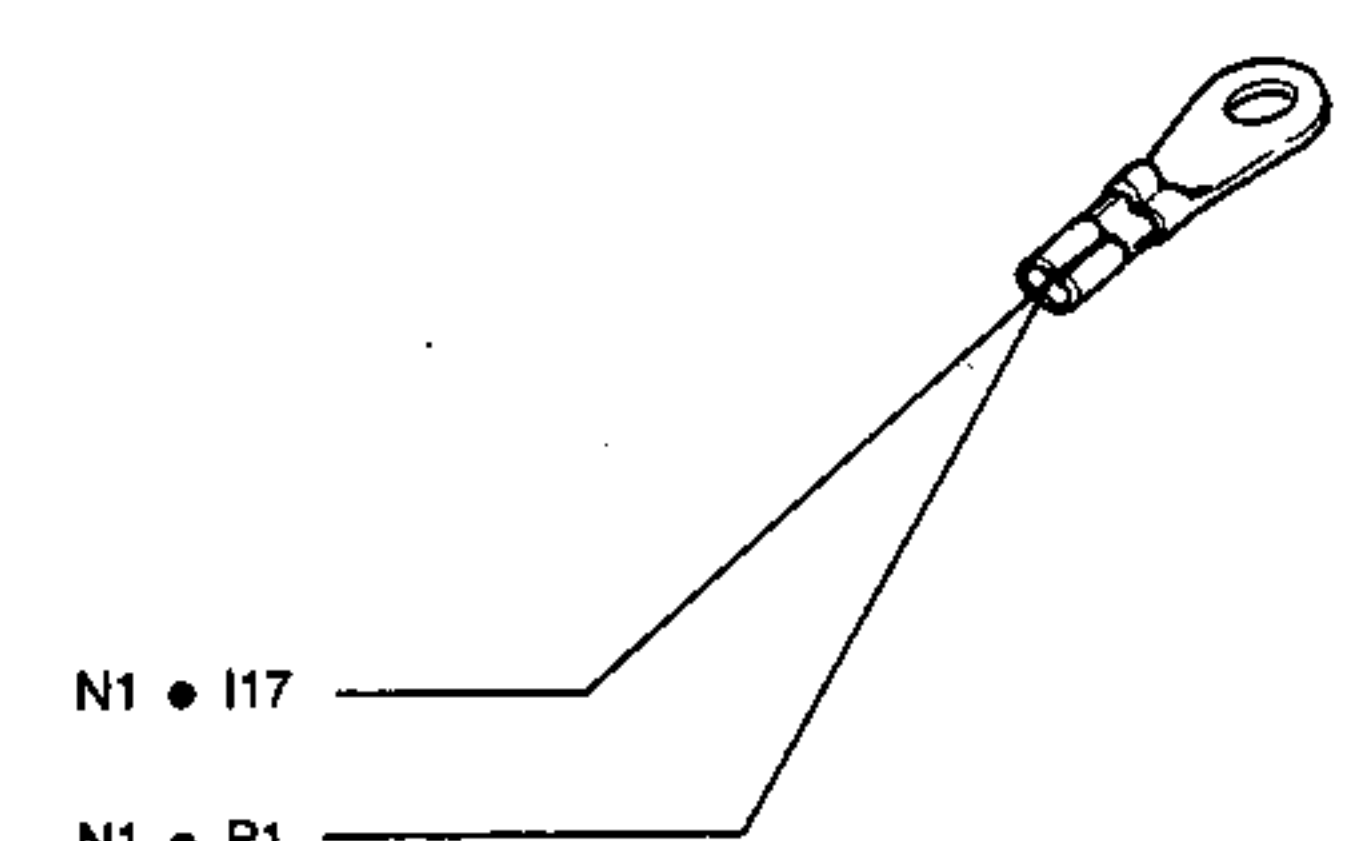
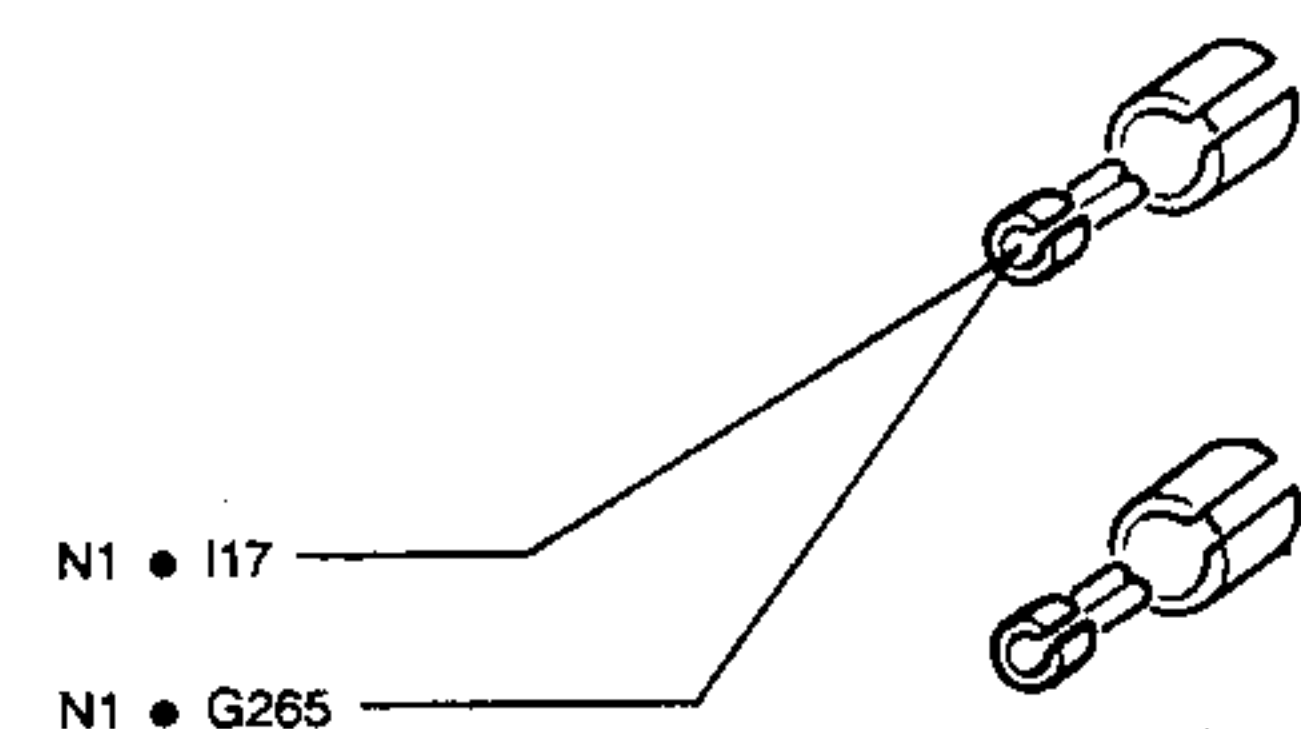
Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.001
Ignition switch	B1	Turn signal switch unit	B68 B
 <p>S • G95 H R2.5 • G56</p>	33.90.008	 <p>A1 • P1 Z1 • G95 B</p>	33.90.027
Turn signal switch unit	B68 C	Turn signal switch unit	B68 E
 <p>AN1 • B68 C H1 • P1 BN • G95 B AN1 • G95 I</p>	33.90.027	 <p>RN1 • G95 B</p>	33.90.027

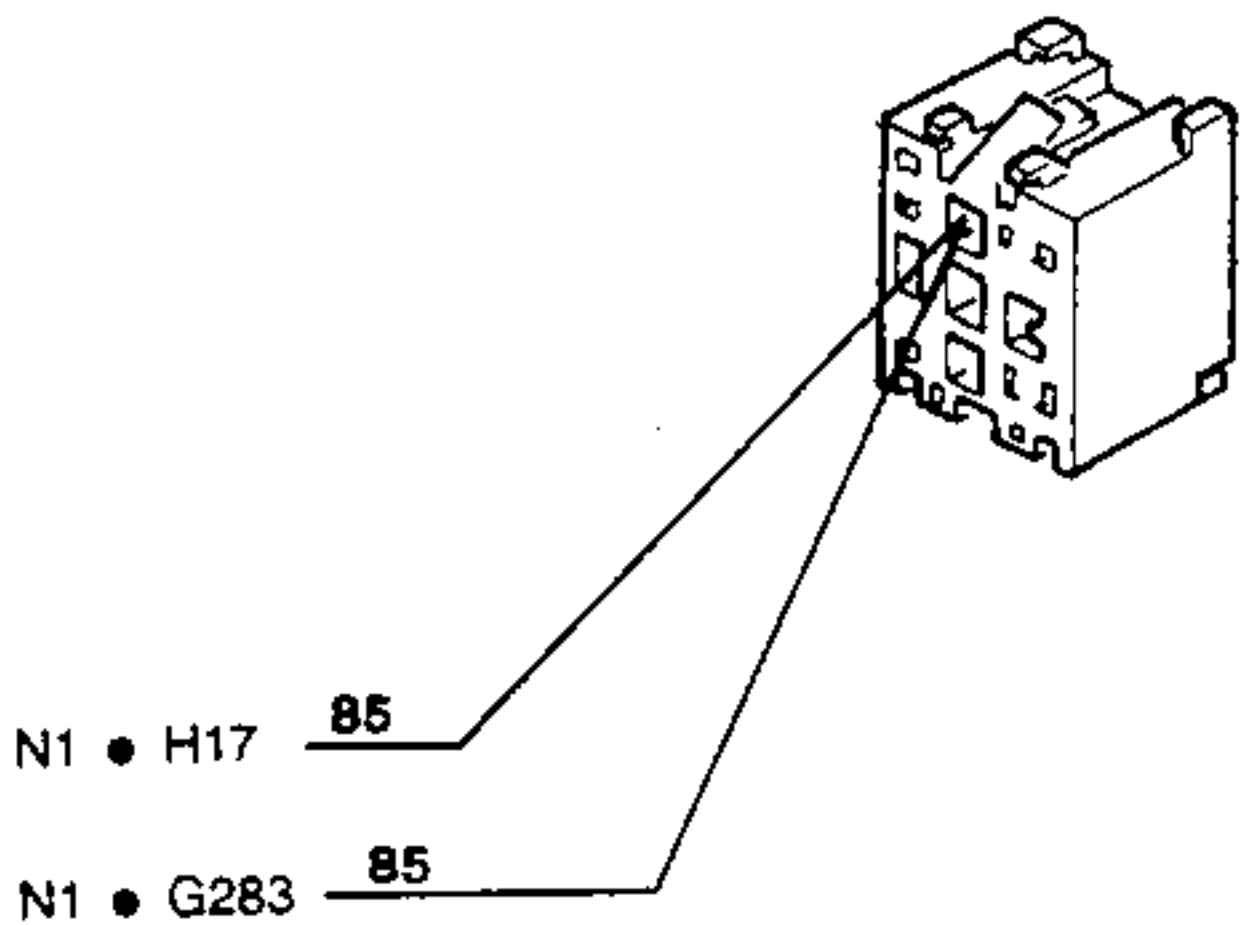
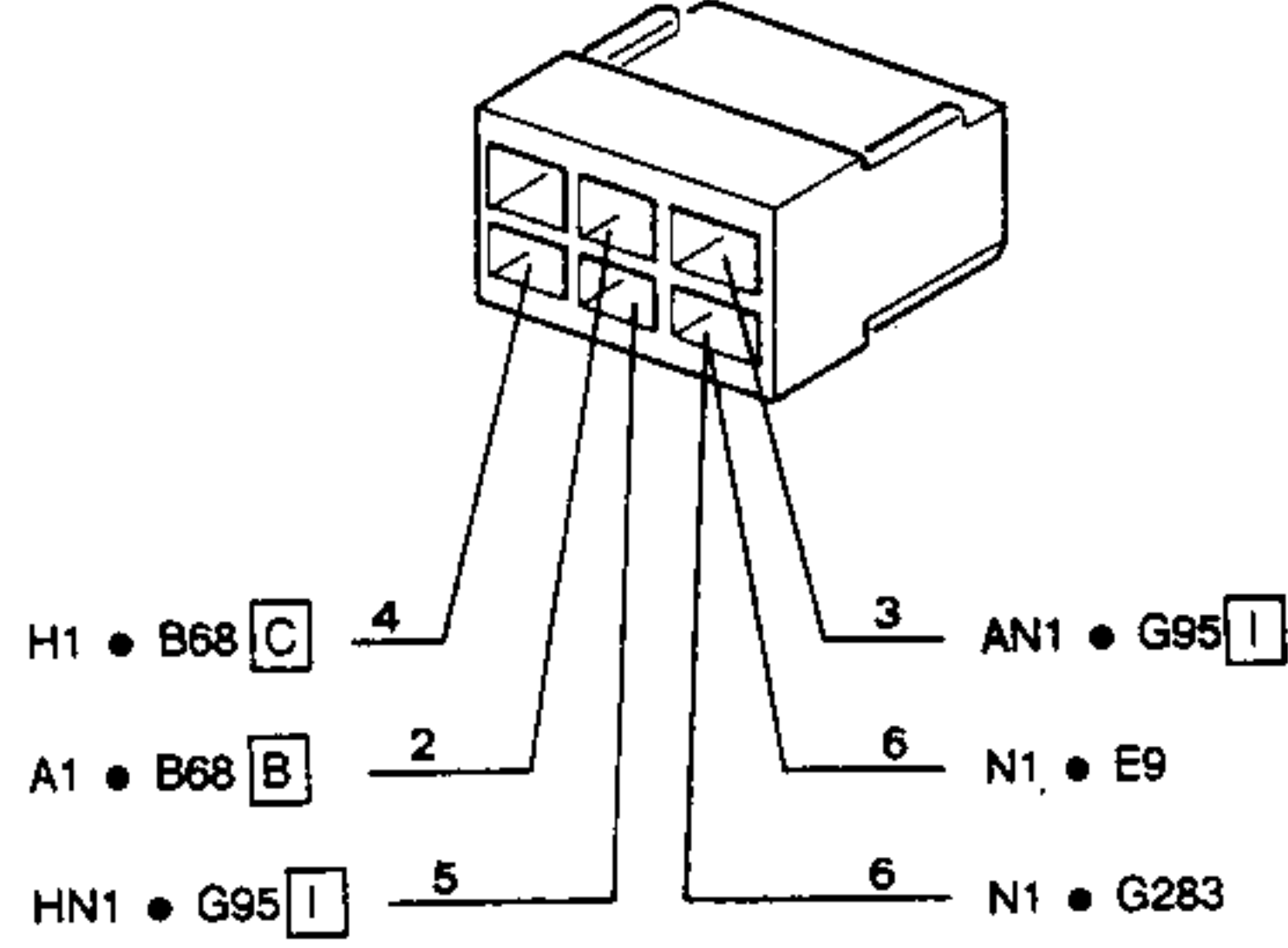
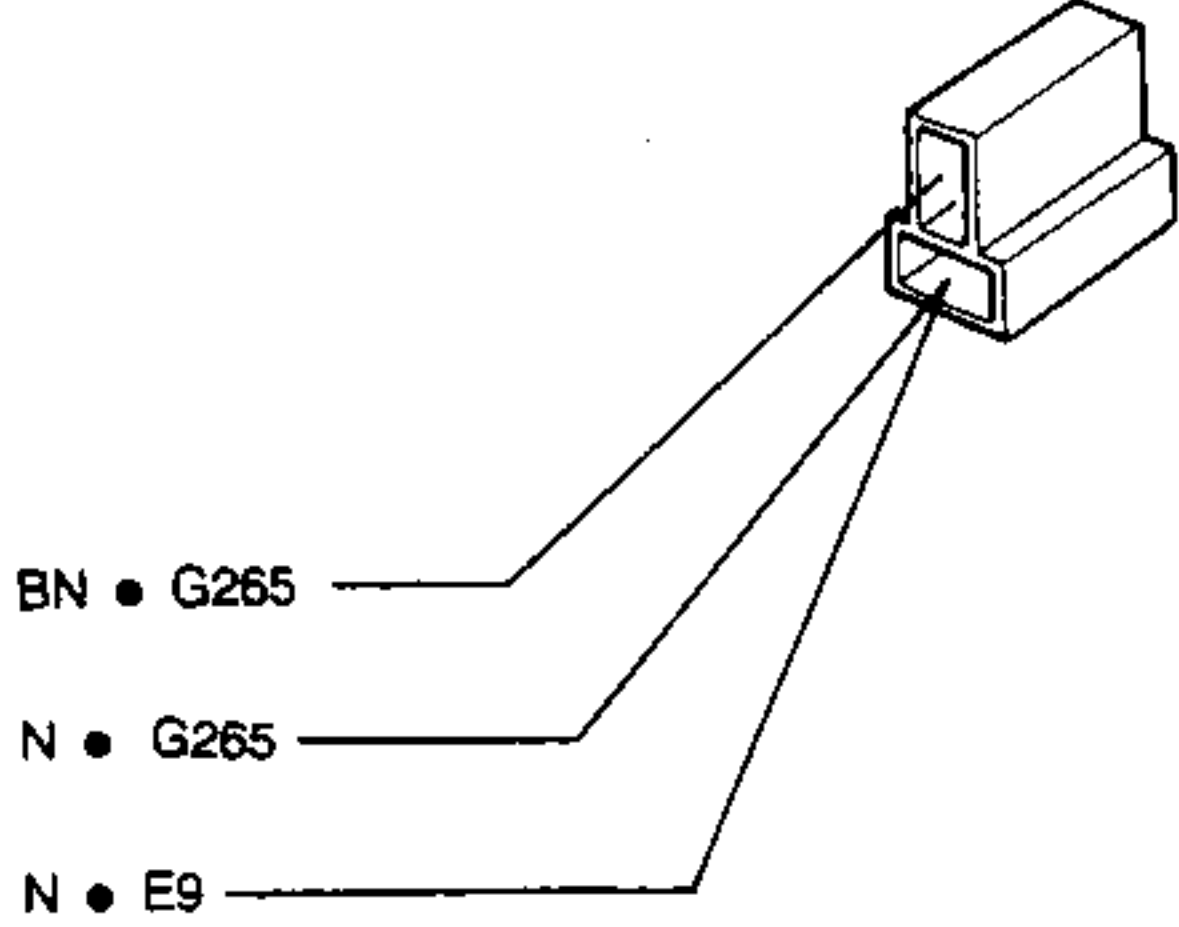
ELECTRICAL SYSTEM

<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox (+)</p>	<p>G95</p>
 <p>R2,5 • B68 (A)</p> <p>R2,5 • B1</p> <p>R10 • G95 (+)</p> <p>R10 • A1 (+)</p> <p>33.90.011</p>		 <p>R10 • G56</p> <p>33.90.006</p>	
<p>Central fusebox</p>	<p>G95 (A)</p>	<p>Central fusebox</p>	<p>G95 (B)</p>
 <p>BN • G265 (6)</p> <p>33.90.004</p>		 <p>RN1 • B68 (E) (6)</p> <p>Z1 • B68 (B) (5)</p> <p>BN • B68 (C) (2)</p> <p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 (G)</p>	<p>Central fusebox</p>	<p>G95 (H)</p>
 <p>N1,5 • G283</p> <p>33.90.005</p>		 <p>S • B1 (1)</p> <p>33.90.004</p>	

# ELECTRICAL SYSTEM

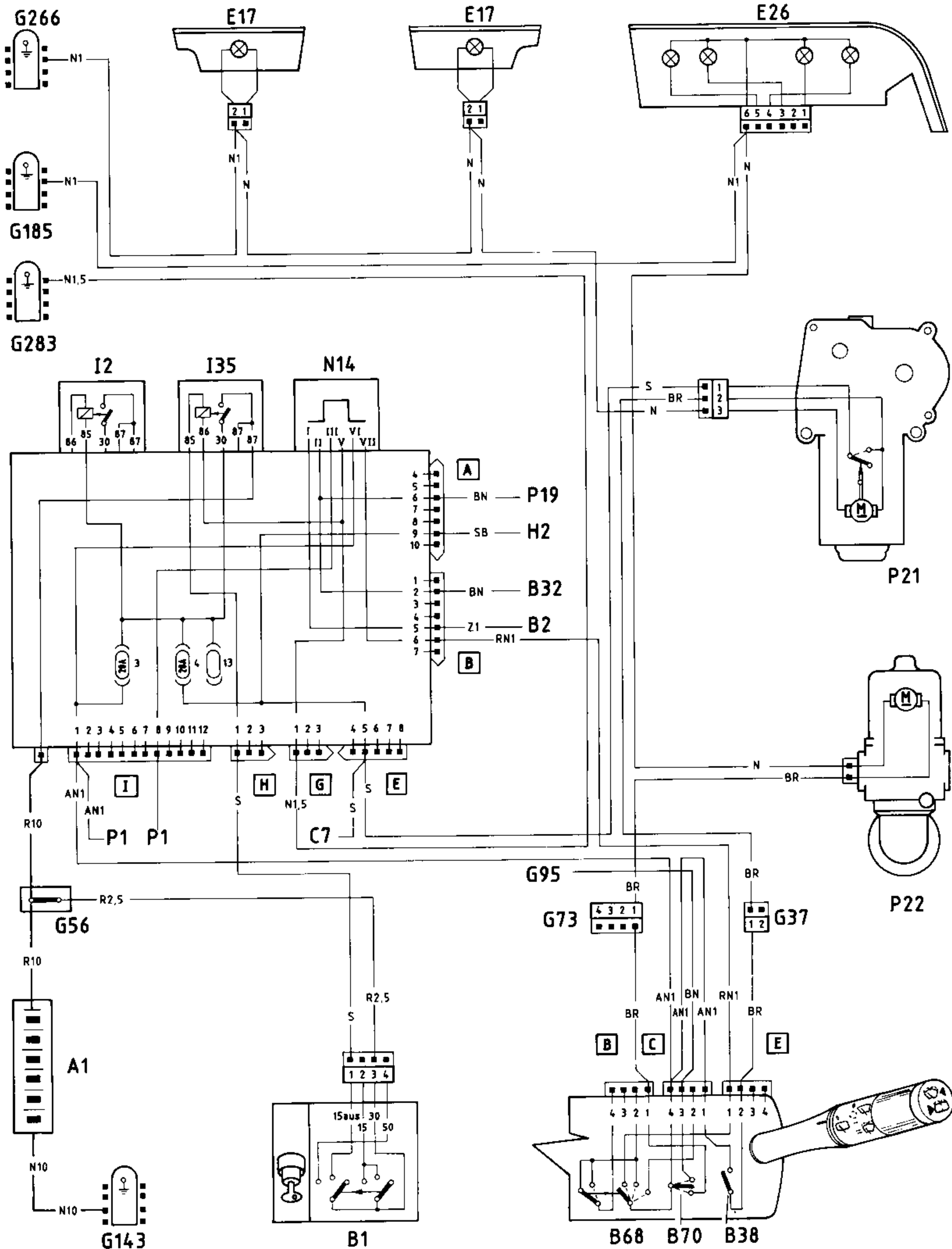
<p style="text-align: center;"><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 I</b></p>	<p style="text-align: center;"><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>
 <p>HN1 • P1 <b>B</b></p> <p>AN1 • P1 <b>1</b></p> <p>AN1 • B68 <b>C</b> <b>1</b></p> <p style="text-align: right;">33.90.004</p>	 <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>
<p style="text-align: center;"><b>Front right under-wing wiring connector</b></p> <p style="text-align: right;"><b>G265</b></p>	<p style="text-align: center;"><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>
 <p>N1 • H17 <b>C</b></p> <p>BN • G95 <b>A</b> <b>B</b></p> <p><b>C</b> N • P19</p> <p><b>B</b> BN • P19</p> <p style="text-align: right;">33.90.029</p>	 <p>N1,5 • G95 <b>G</b></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p style="text-align: right;">33.90.001</p>
<p style="text-align: center;"><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>	<p style="text-align: center;"><b>Brake fluid minimum level check switch</b></p> <p style="text-align: right;"><b>H17</b></p>
 <p>N1 • I17</p> <p>N1 • P1</p> <p style="text-align: right;">33.90.014</p>	 <p>N1 • I17</p> <p>N1 • G265</p> <p style="text-align: right;">33.90.030</p>

ELECTRICAL SYSTEM

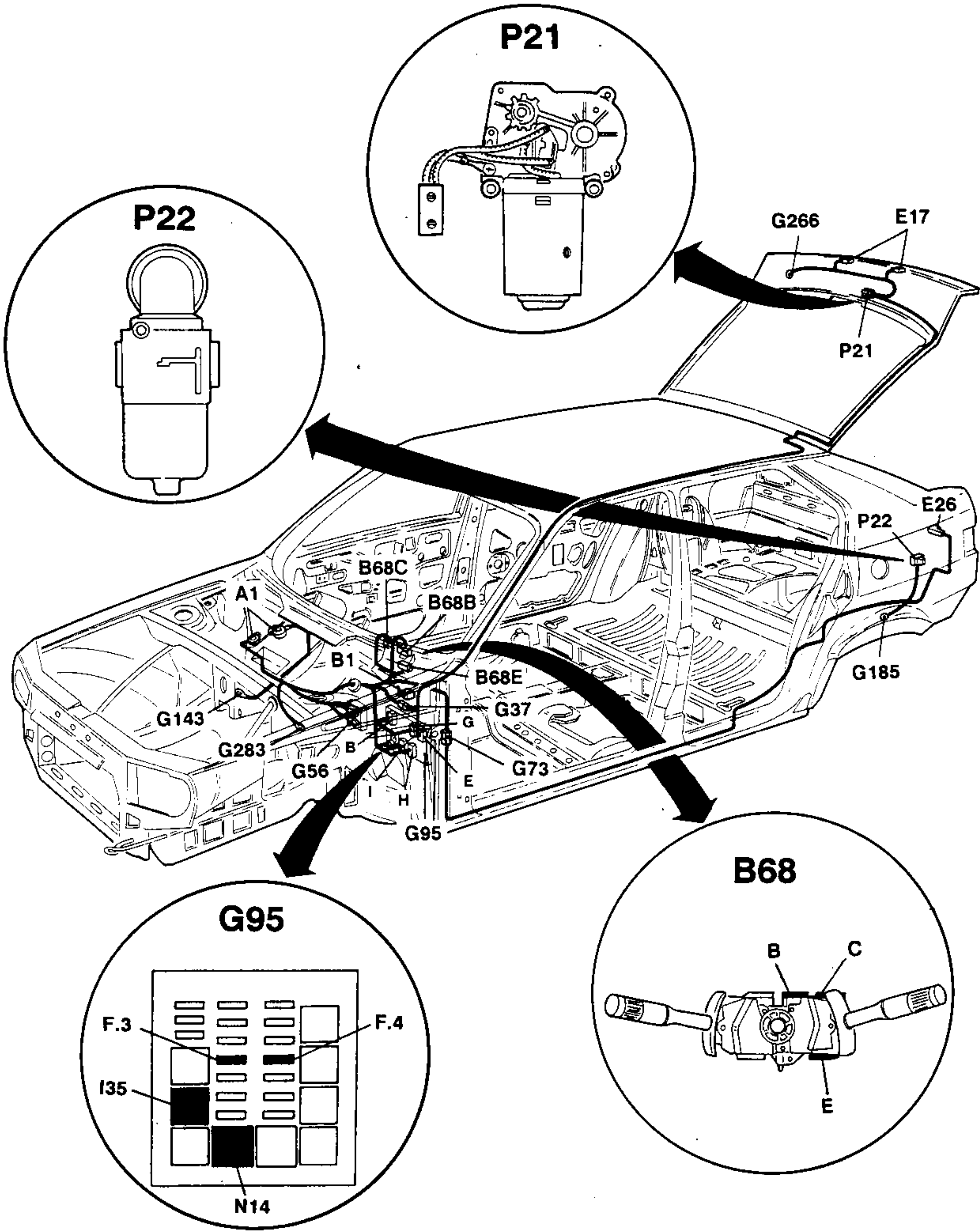
Fog lamp relay	I17	Windscreen wiper motor	P1
 <p>N1 • H17 85</p> <p>N1 • G283 85</p> <p style="text-align: right;">33.90.007</p>	 <p>H1 • B68 C 4</p> <p>A1 • B68 B 2</p> <p>HN1 • G95 I 5</p> <p>AN1 • G95 I 3</p> <p>N1 • E9 6</p> <p>N1 • G283 6</p> <p style="text-align: right;">33.90.031</p>		
Windscreenh washer pump	P19		
 <p>BN • G265</p> <p>N • G265</p> <p>N • E9</p> <p style="text-align: right;">33.90.020</p>			

REAR WINDOW WASHER/WIPER

Wiring diagram

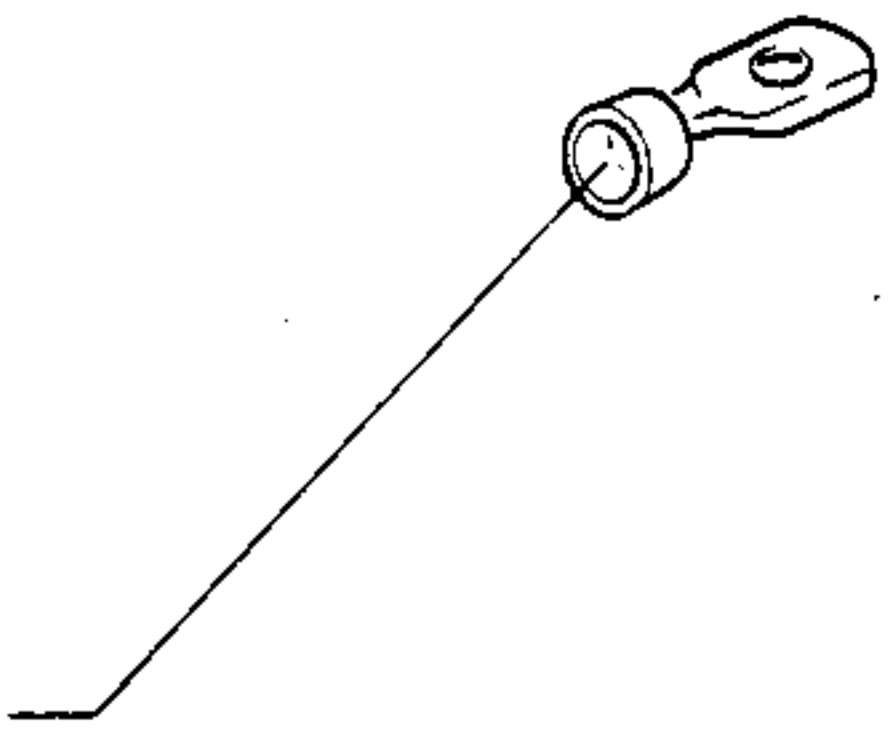
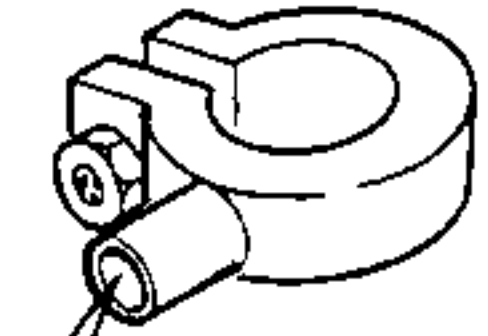
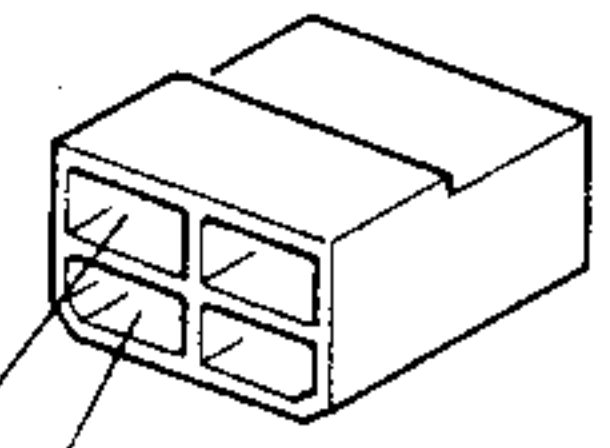
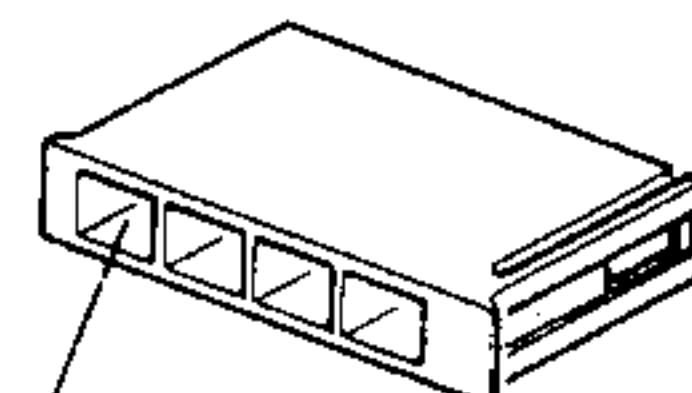
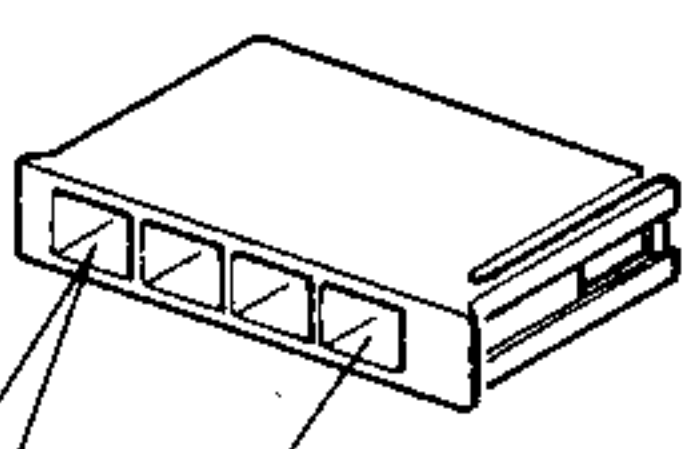
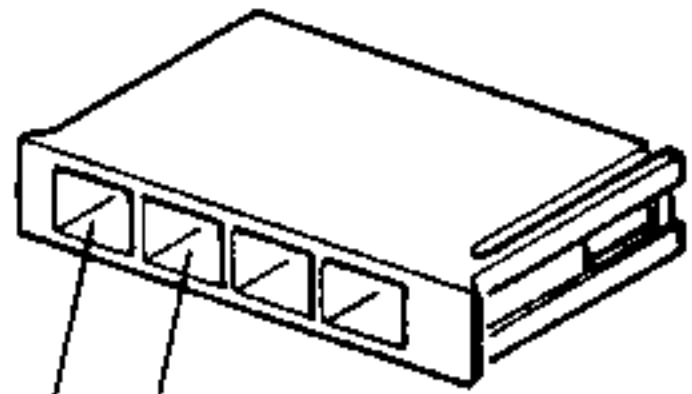


Wiring

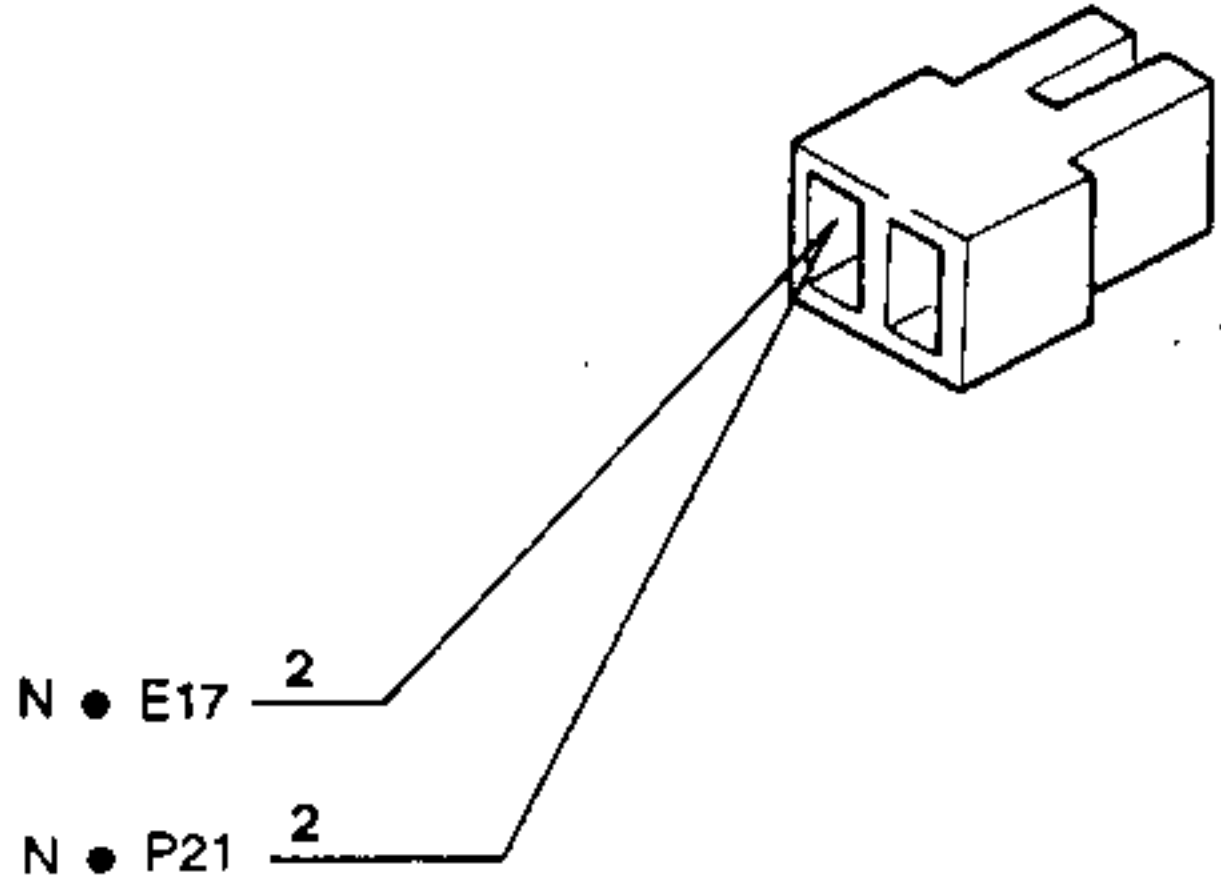
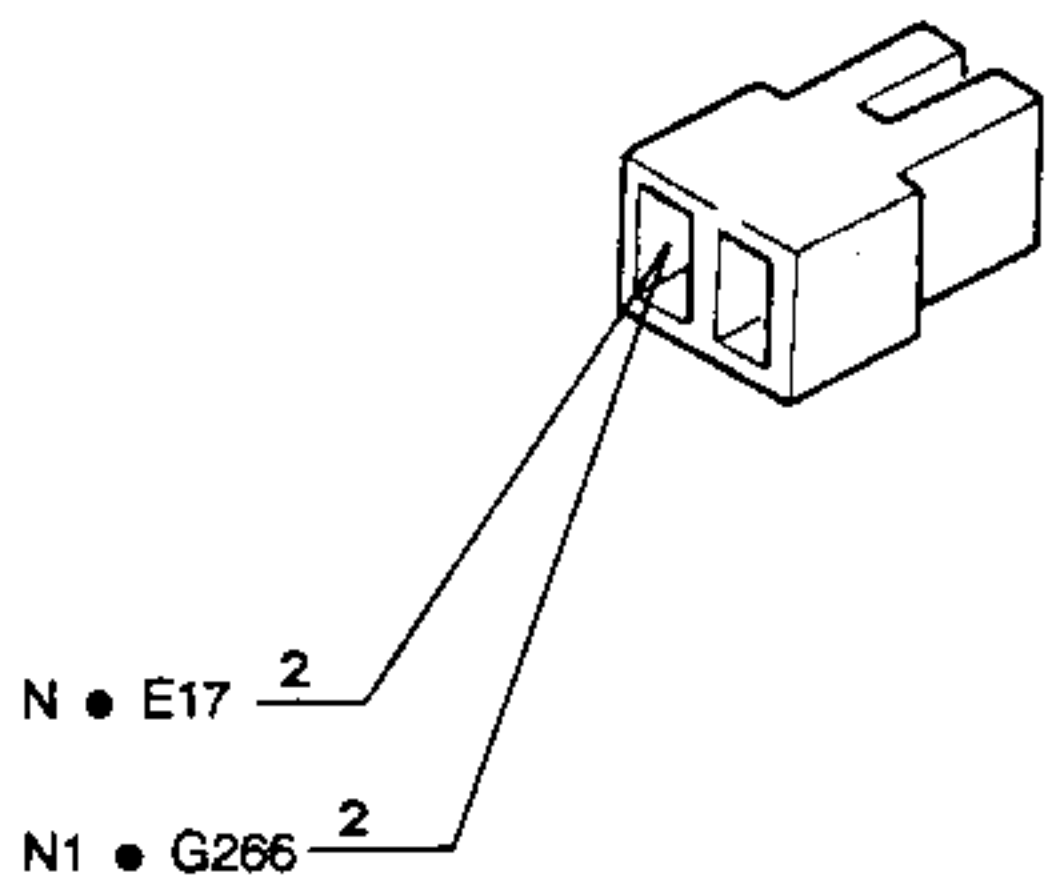
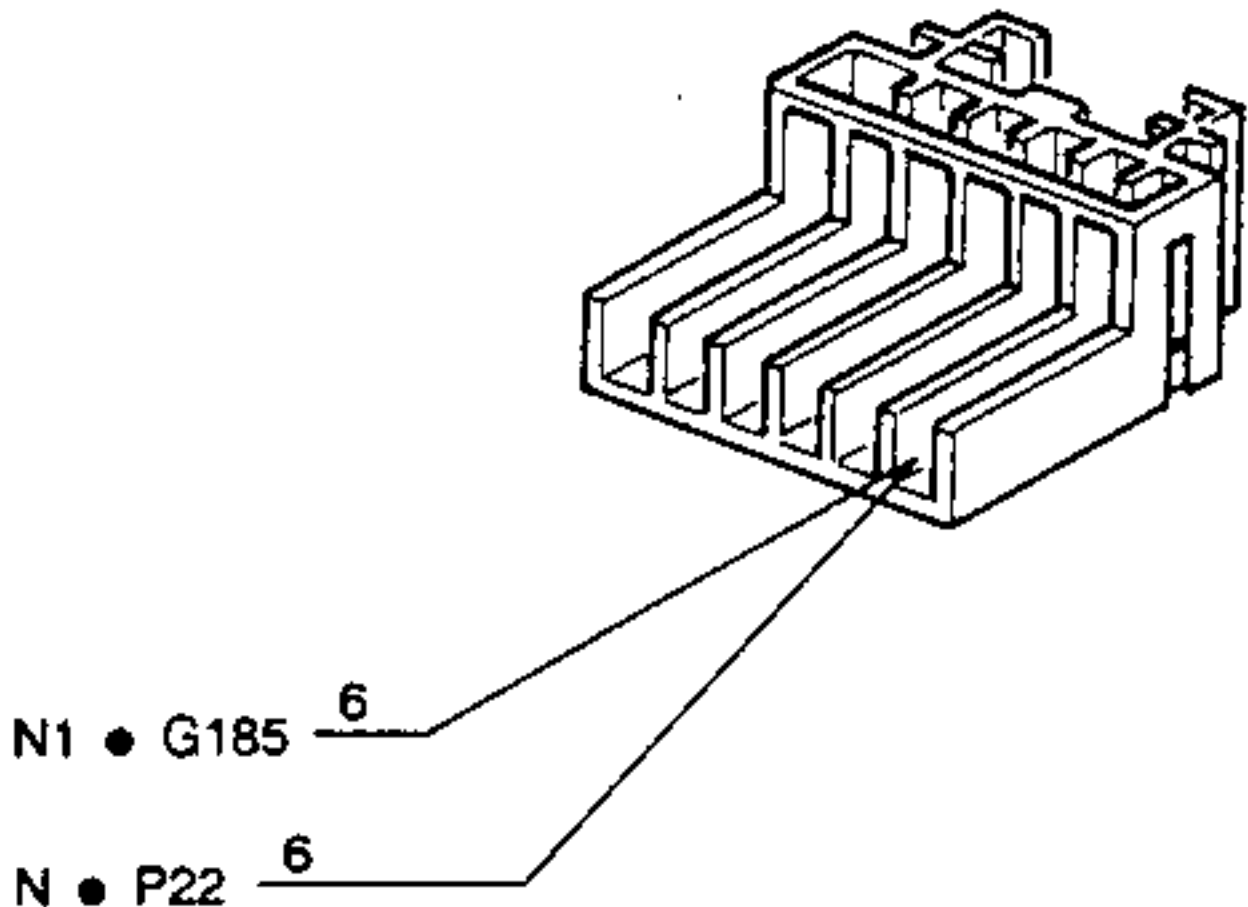
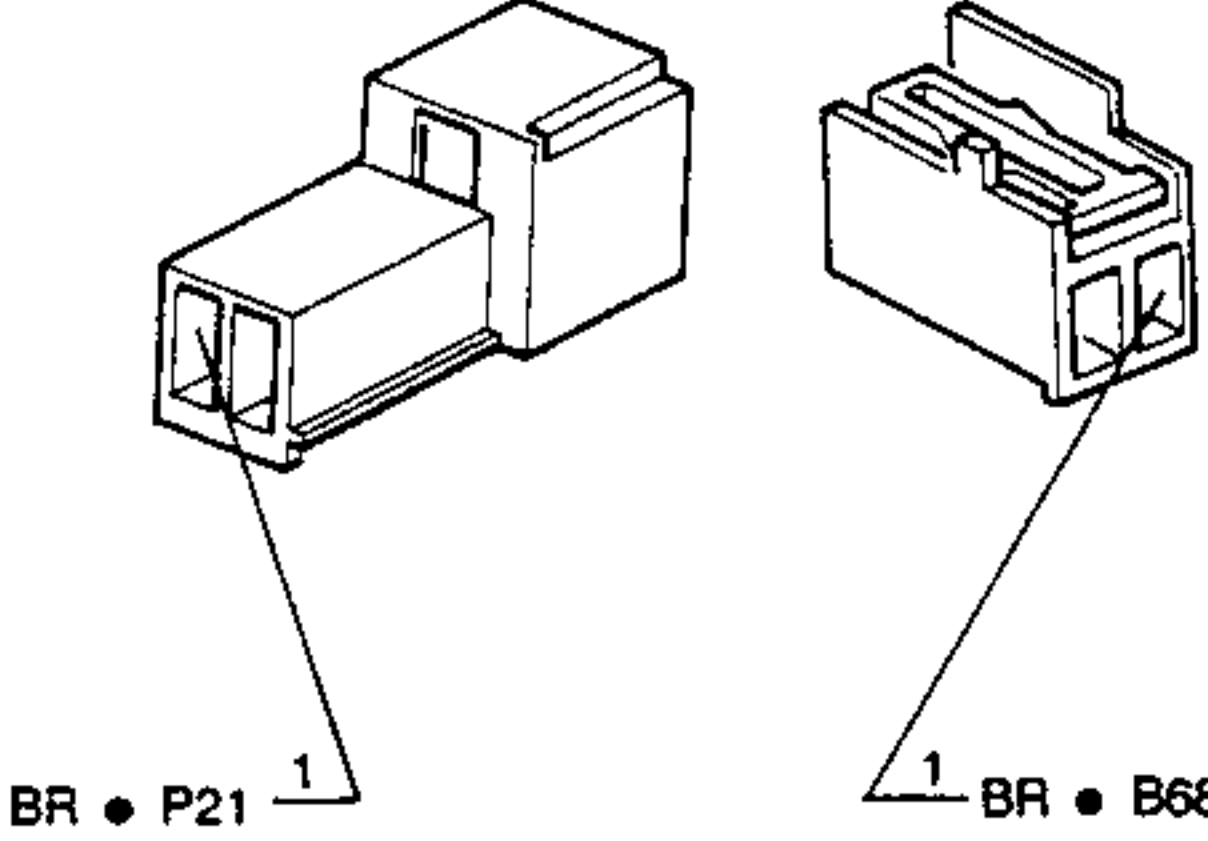
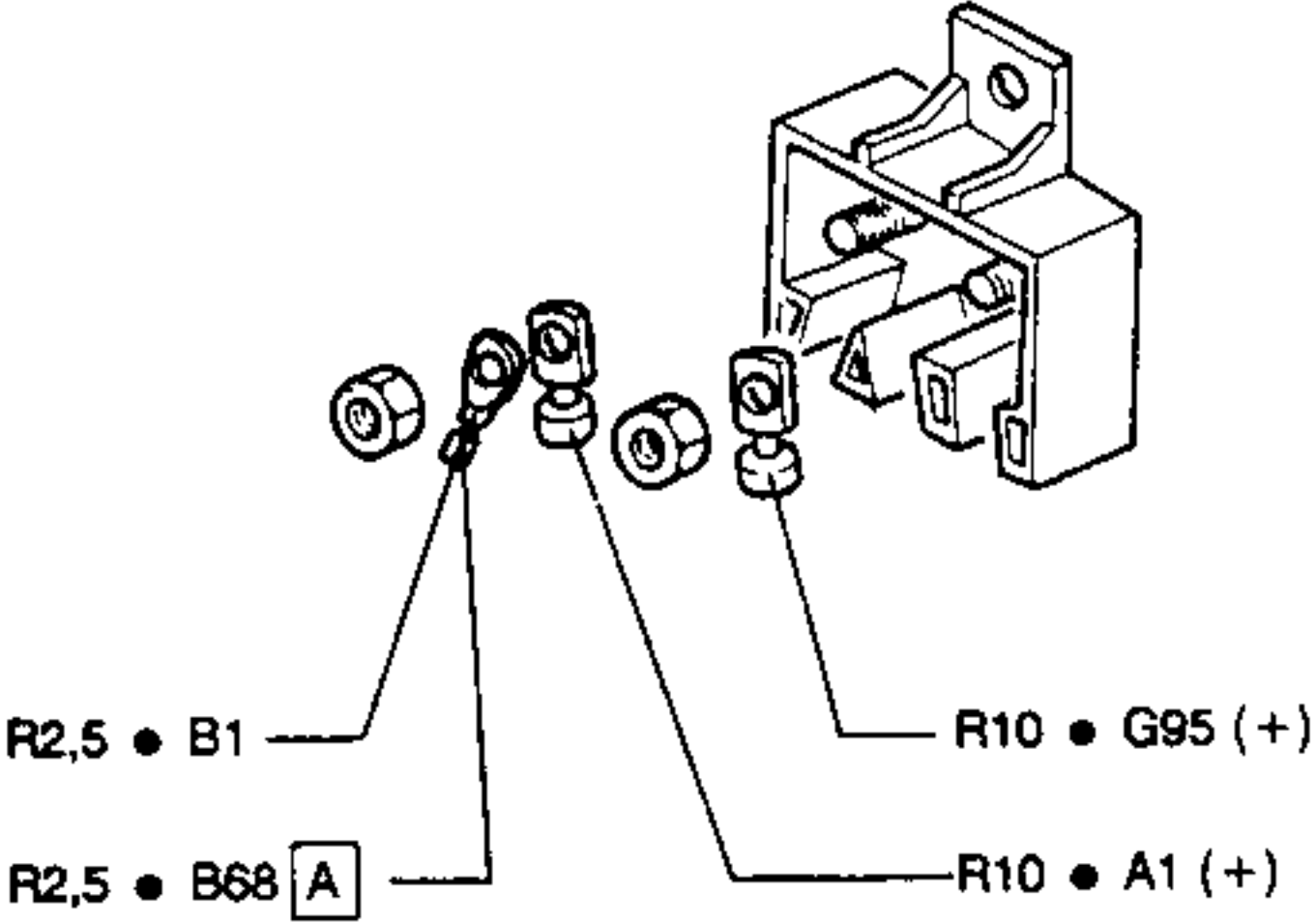
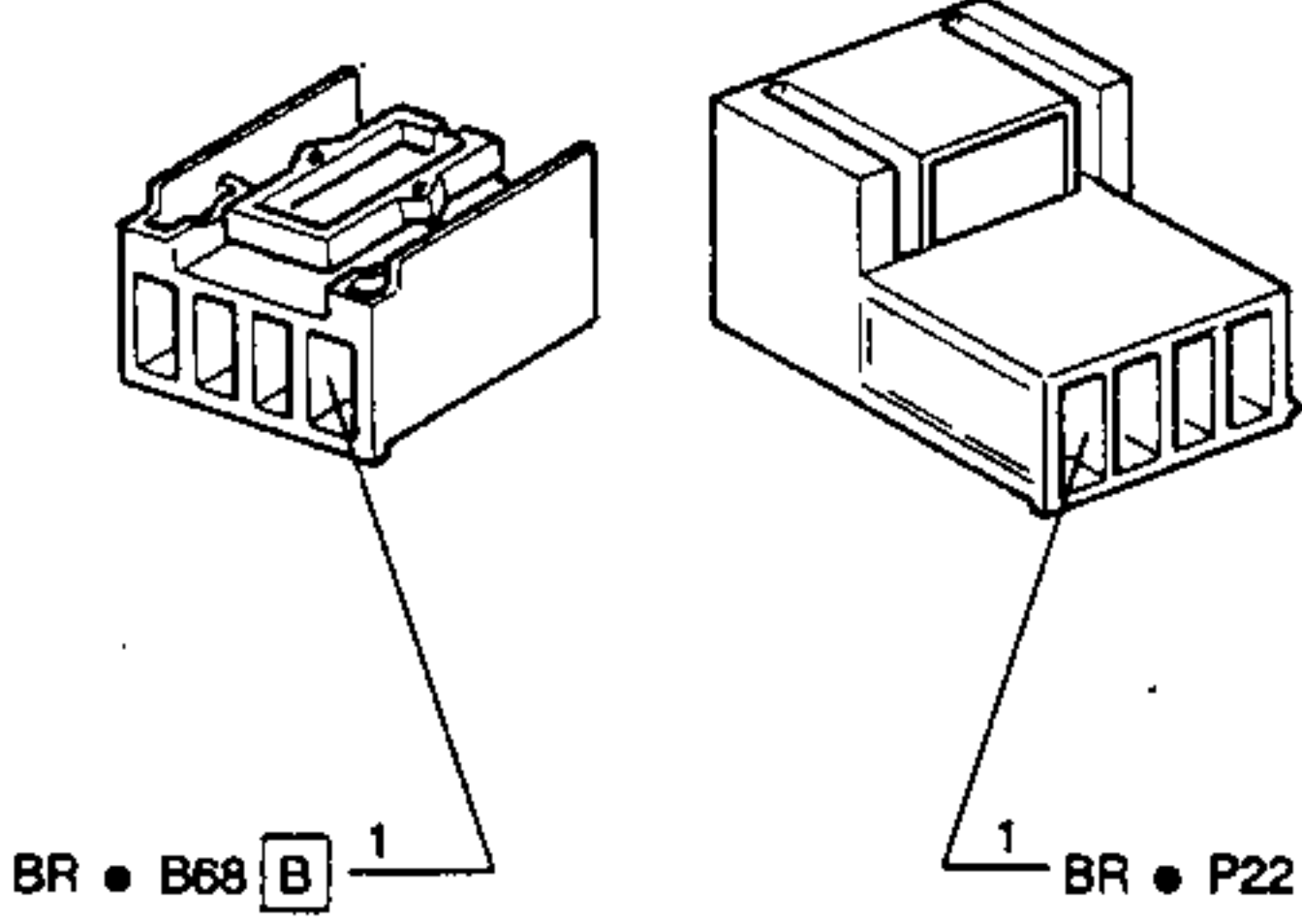


ELECTRICAL SYSTEM

Connectors

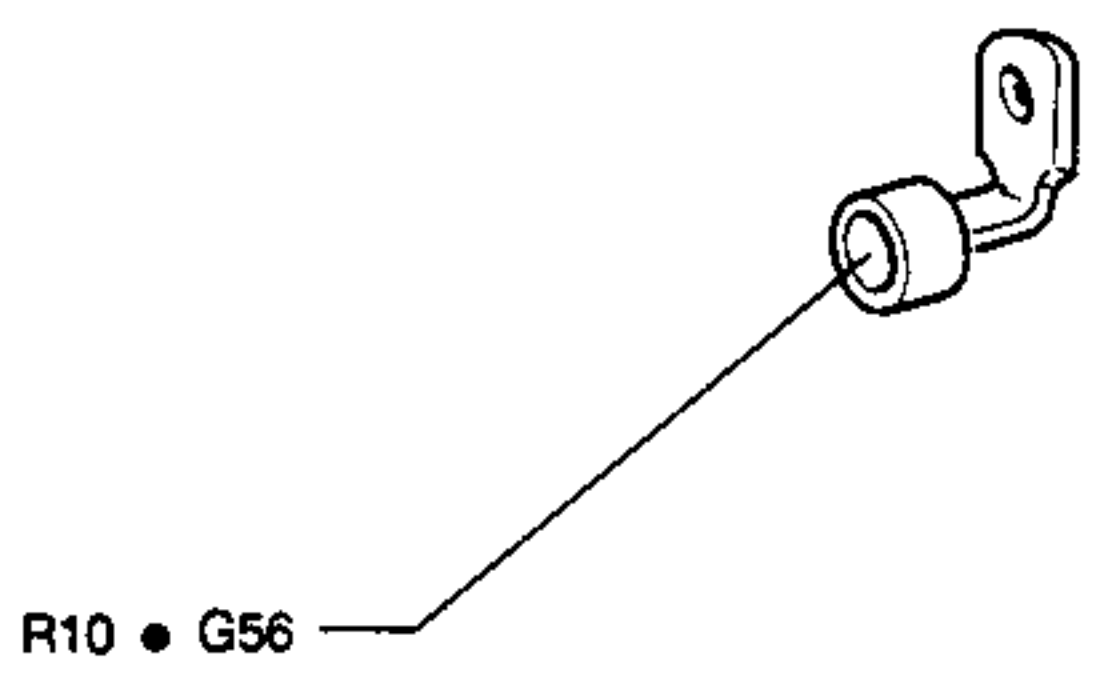
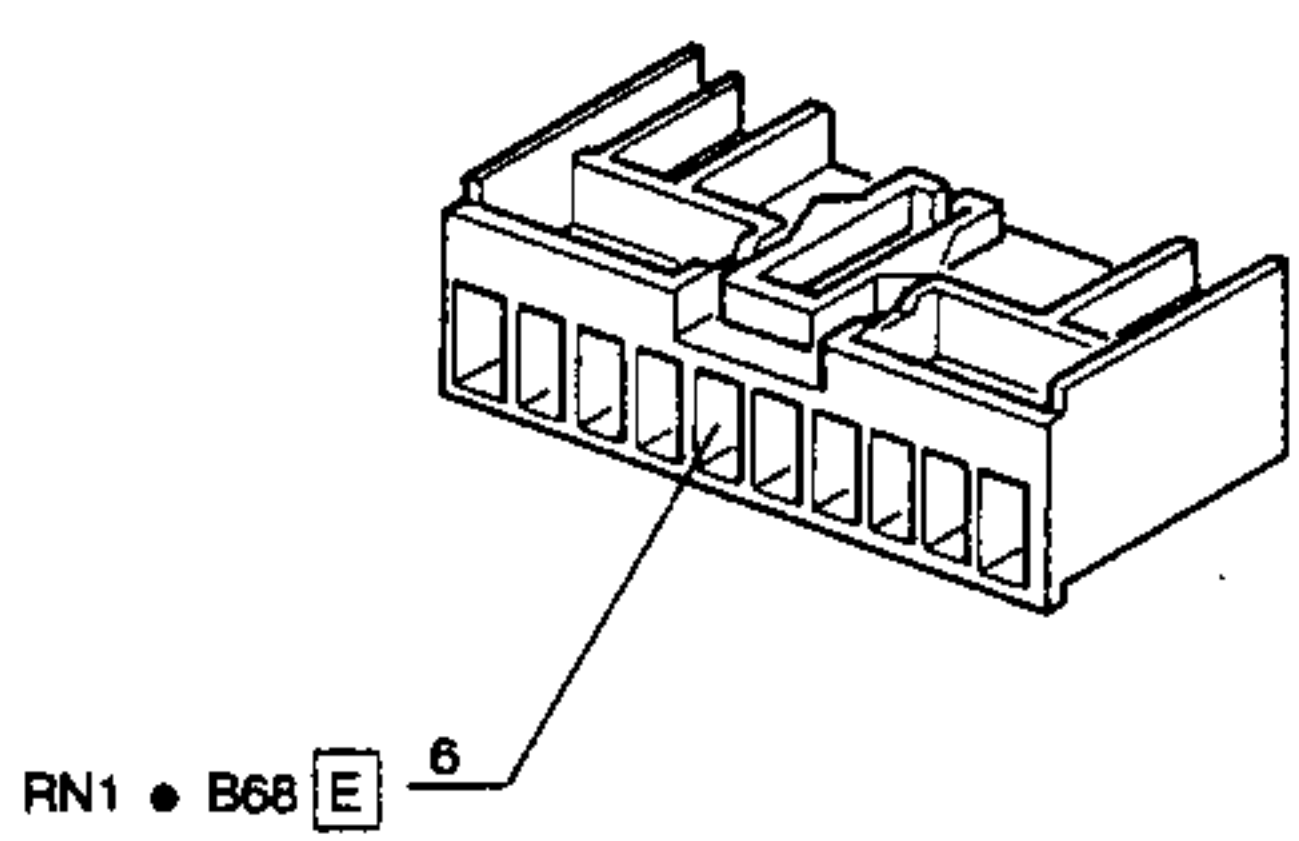
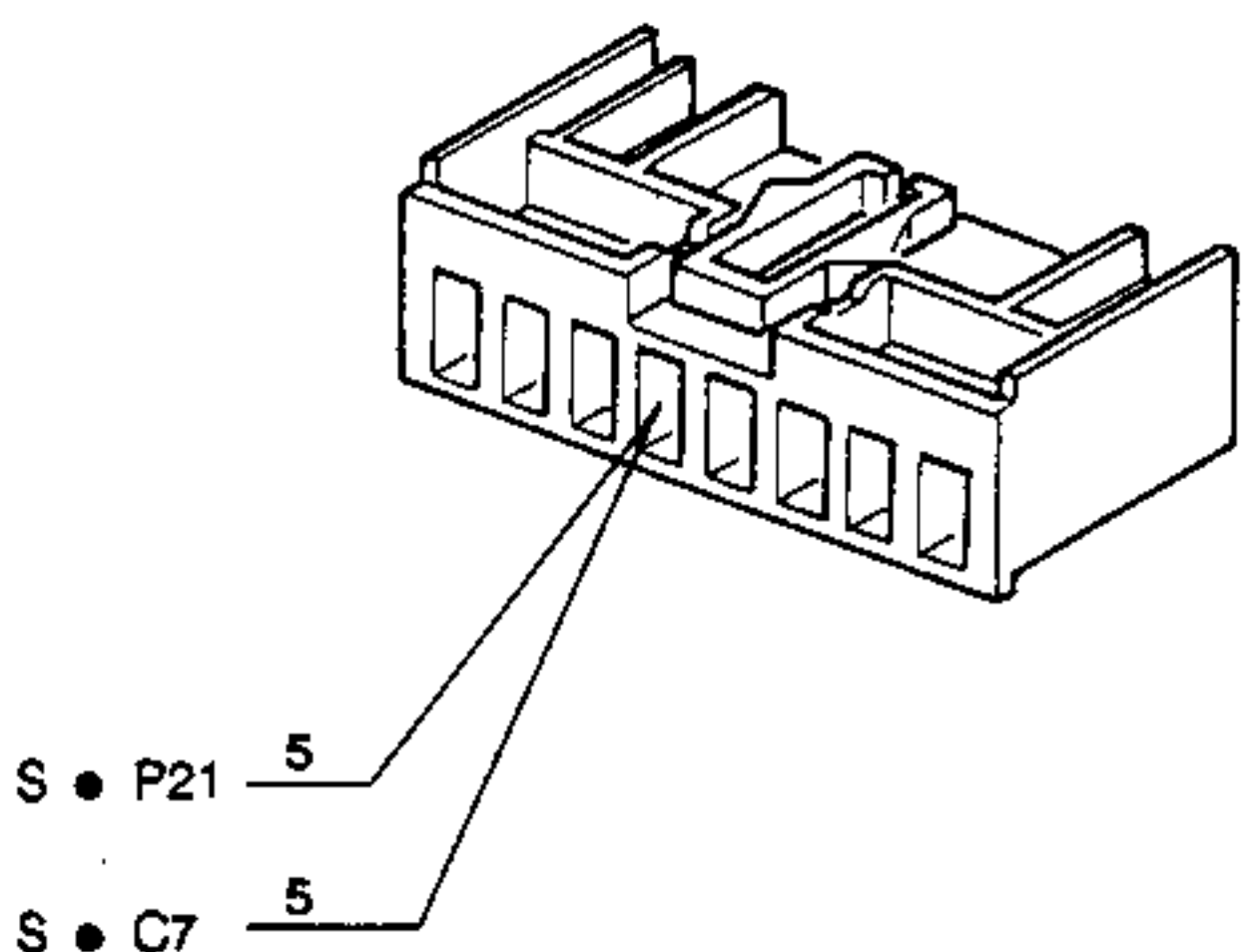
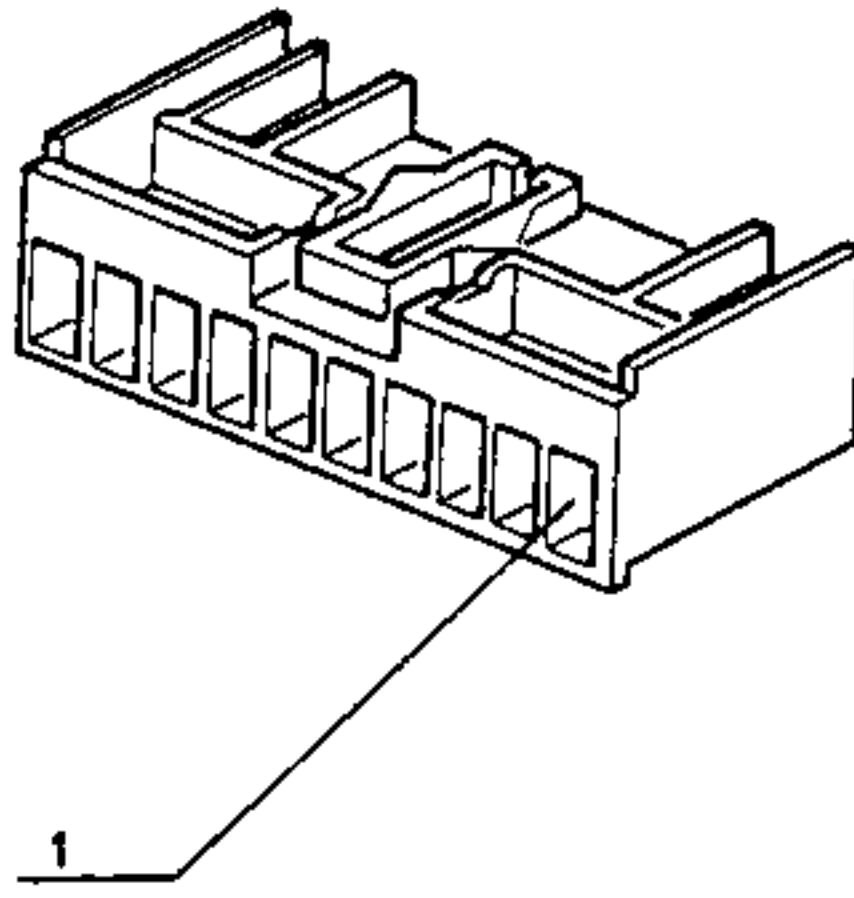
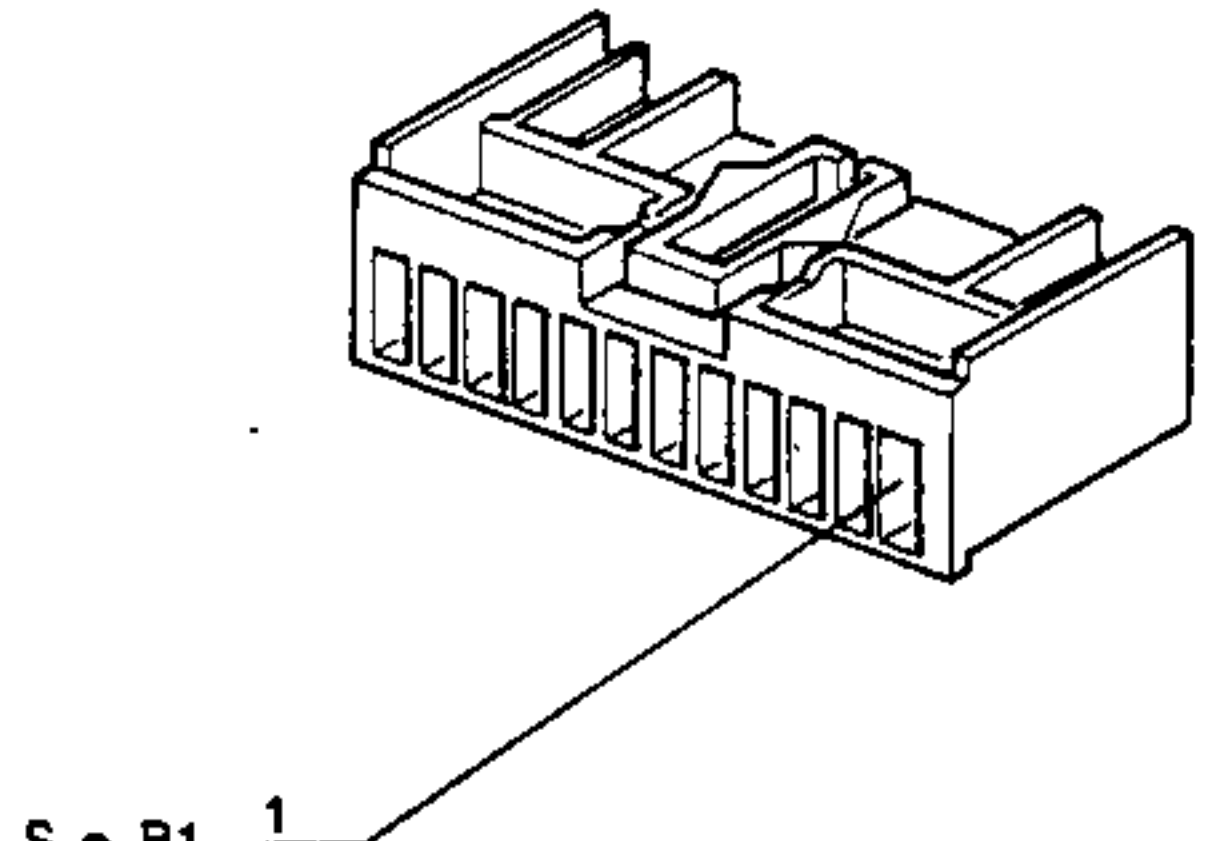
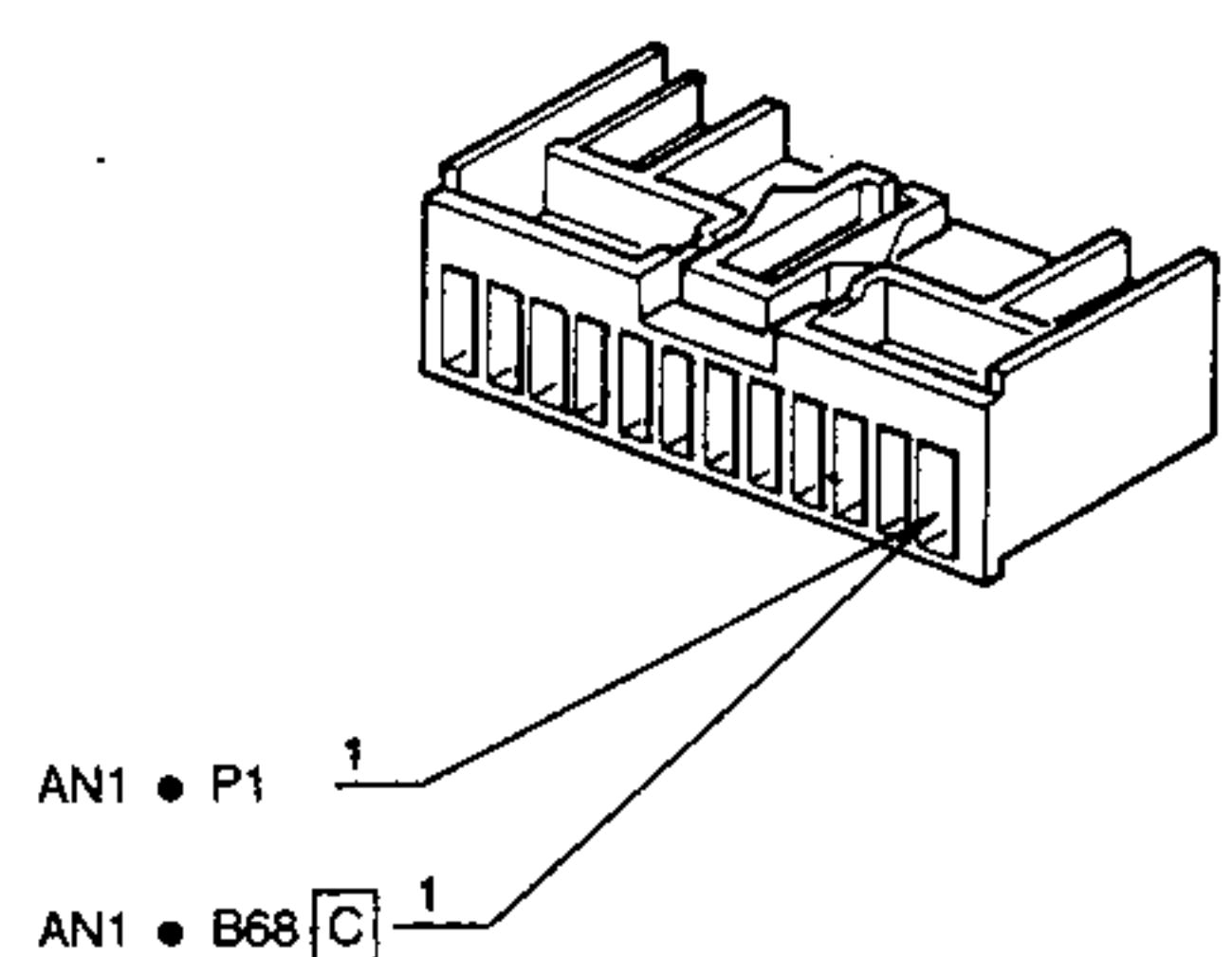
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Turn signal switch unit	B68 B
 <p>S • G95 [H] 1 R2,5 • G56 3</p>	33.90.028	 <p>BR • G73 1</p>	33.90.027
Turn signal switch unit	B68 C	Turn signal switch unit	B68 E
 <p>AN1 • G95 [I] 1 AN1 • B68 [C] 1 AN1 • B68 [C] 4</p>	33.90.027	 <p>RN1 • G95 [B] 1 BR • G37 2</p>	33.90.027

**ELECTRICAL SYSTEM**

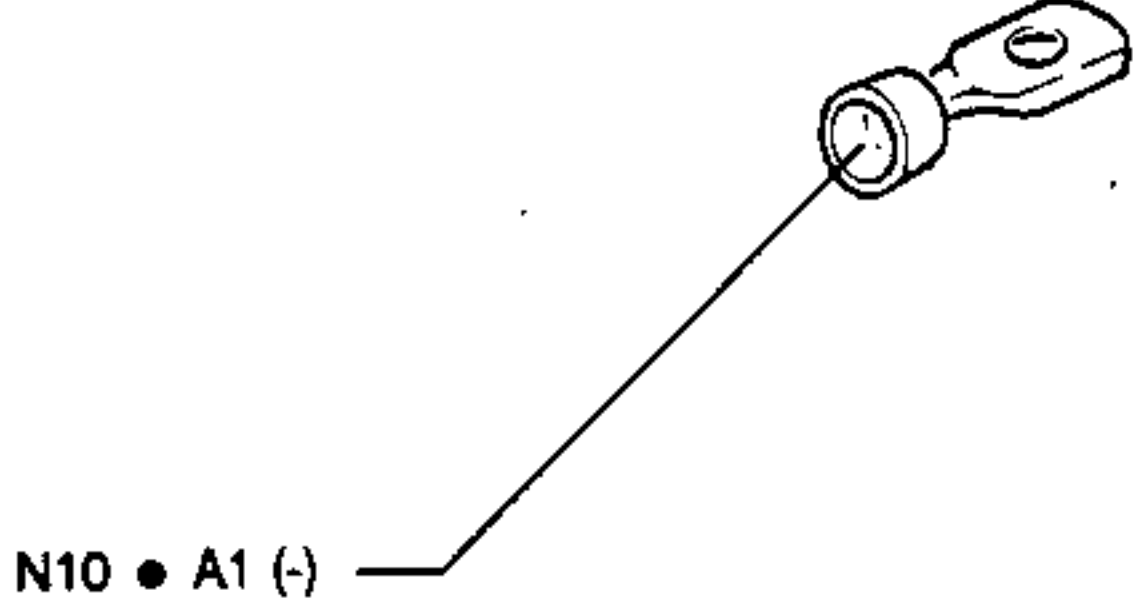
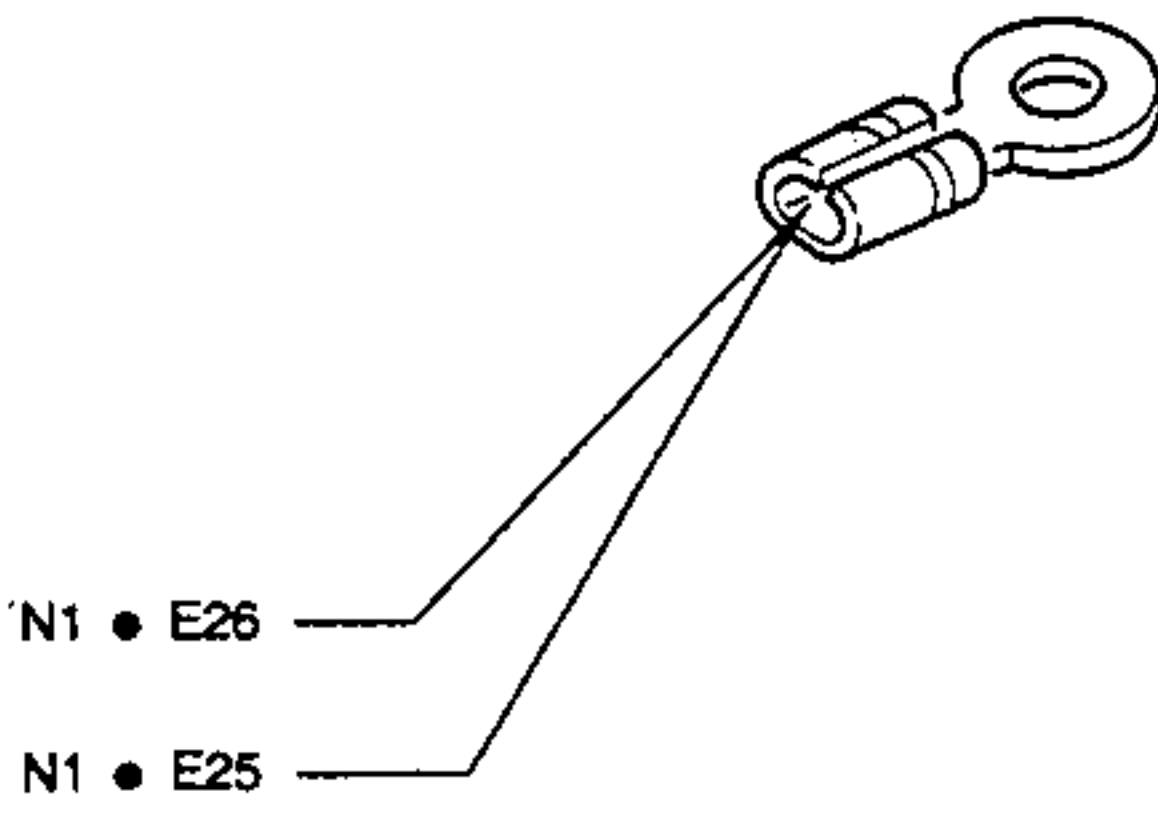
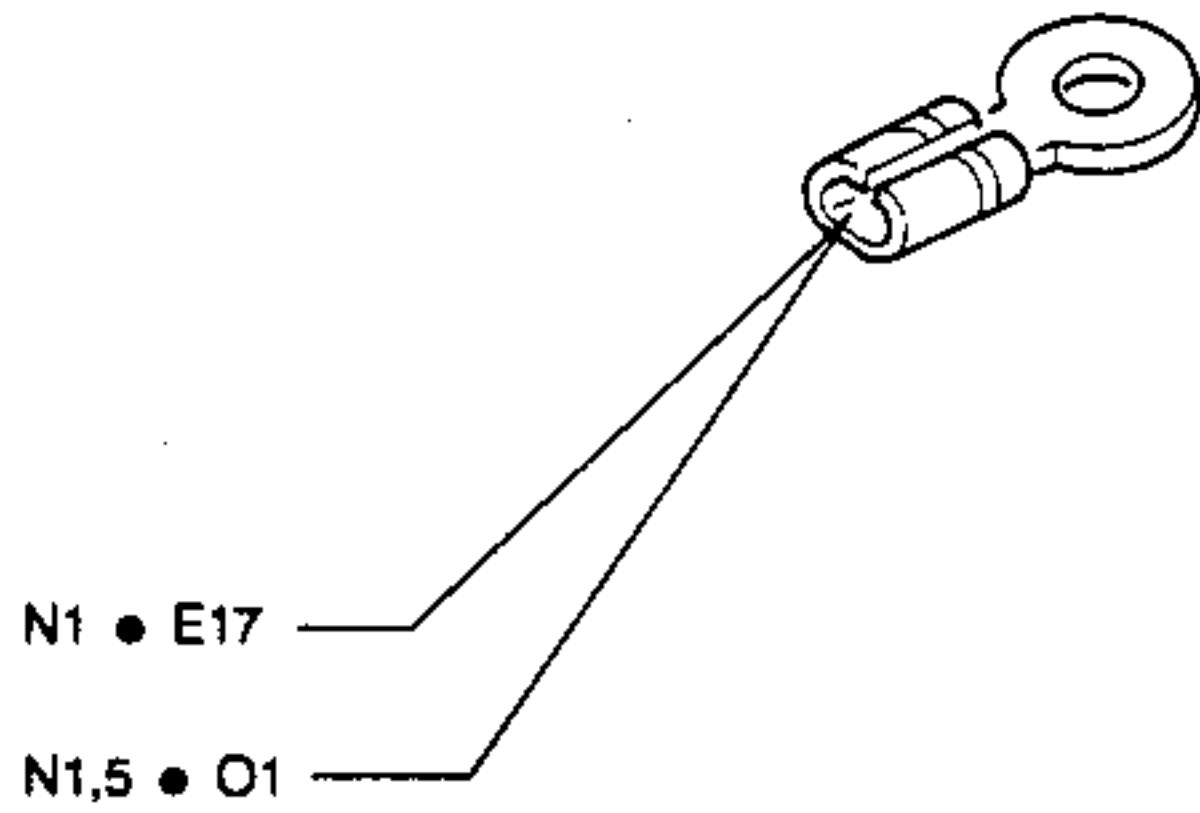
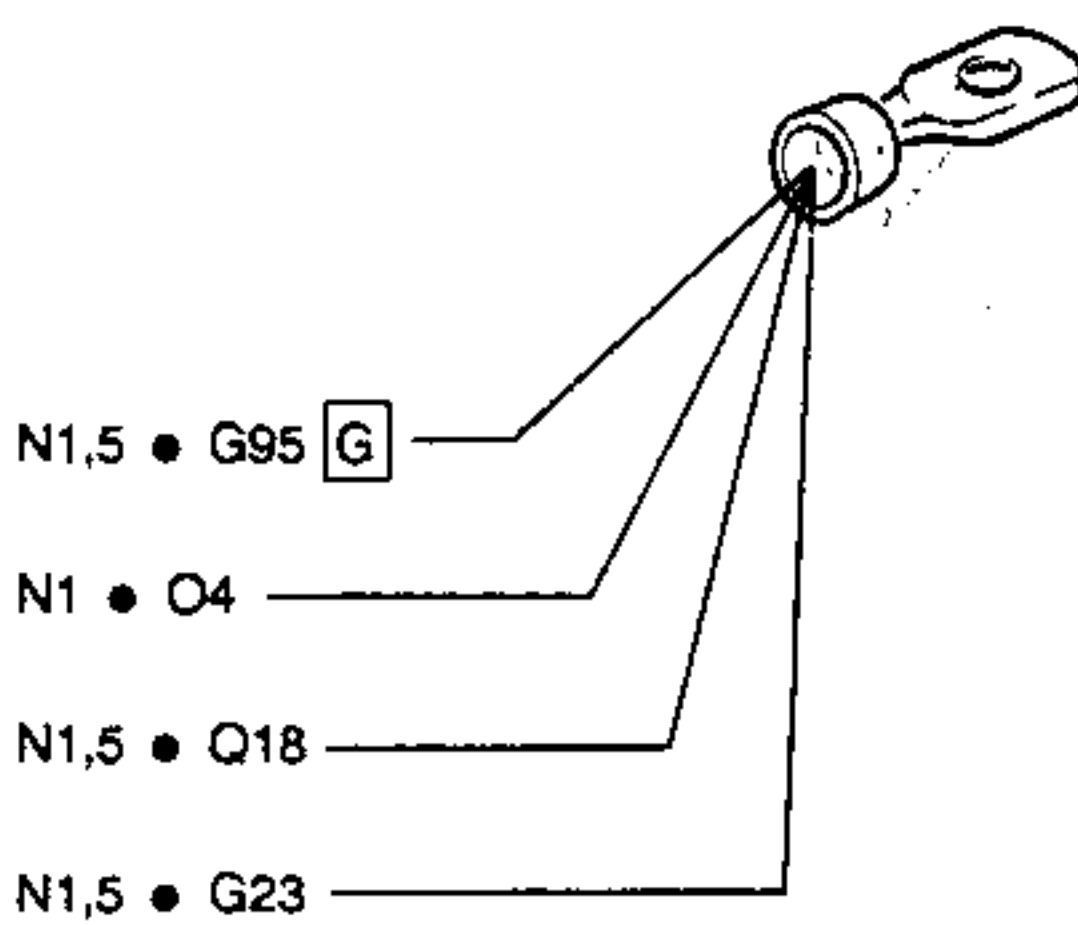
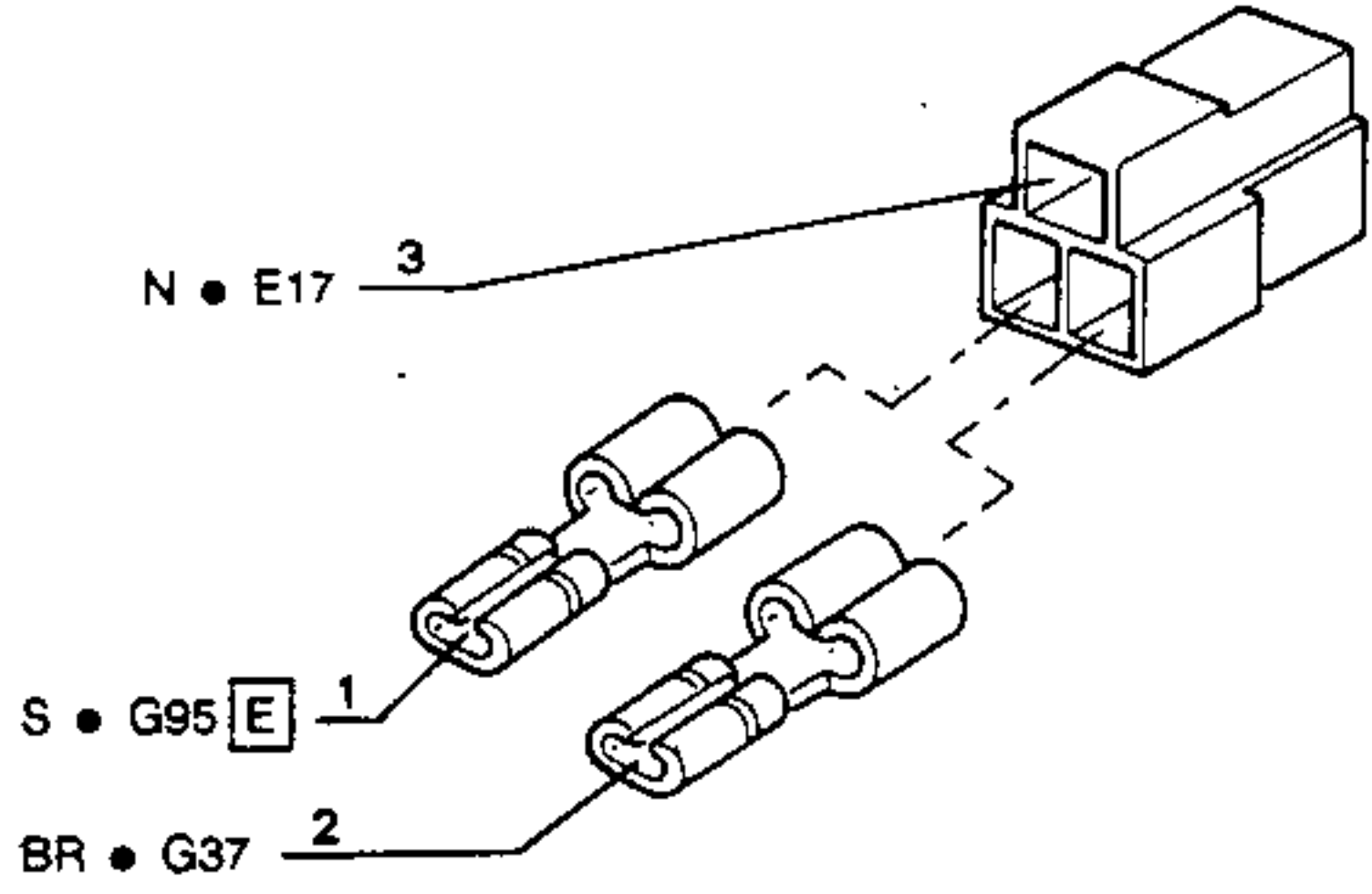
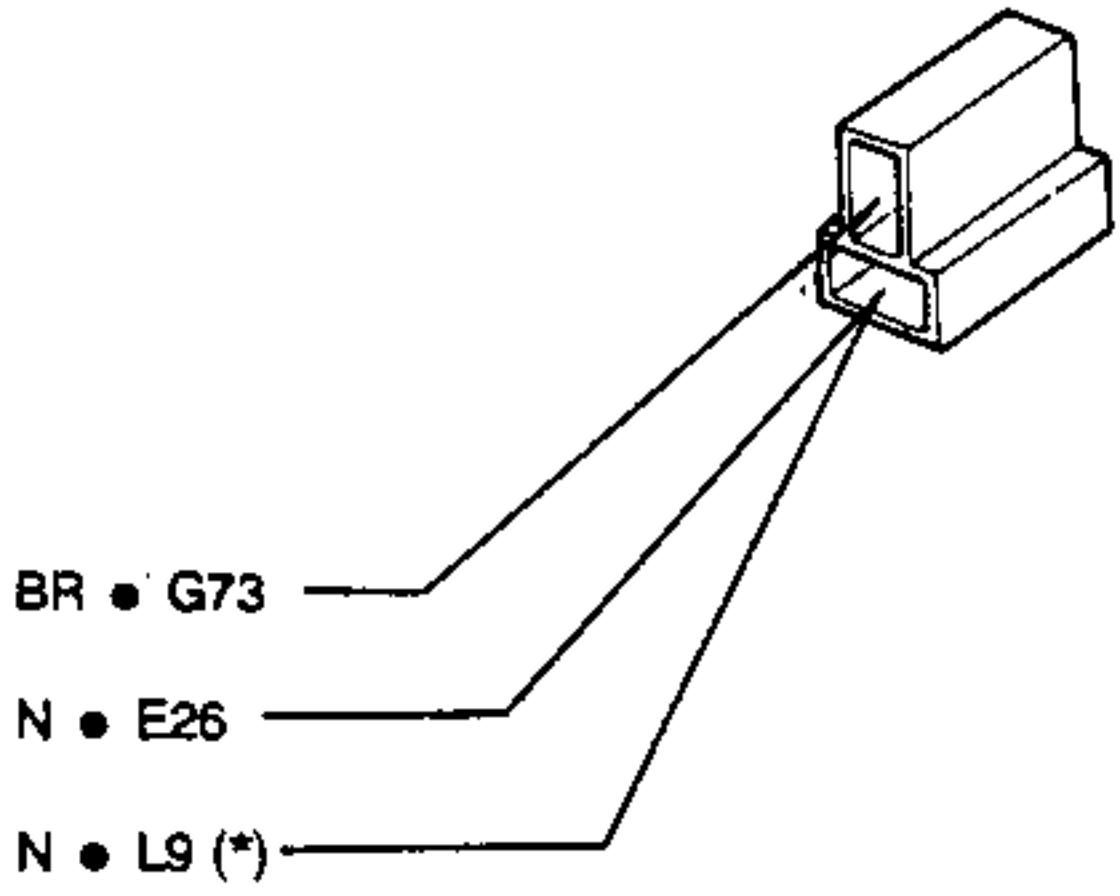
<p align="center"><b>Numberplate light (left)</b></p>	<p align="center"><b>E17</b></p>	<p align="center"><b>Numberplate light (right)</b></p>	<p align="center"><b>E17</b></p>
 <p>N ● E17 2 N ● P21 2</p> <p align="right">33.90.017</p>		 <p>N ● E17 2 N1 ● G266 2</p> <p align="right">33.90.017</p>	
<p align="center"><b>Left tail light</b></p>	<p align="center"><b>E26</b></p>	<p align="center"><b>Wiper signal switch unit</b></p>	<p align="center"><b>G37</b></p>
 <p>N1 ● G185 6 N ● P22 6</p> <p align="right">33.90.033</p>		 <p>BR ● P21 1 BR ● B68 E</p> <p align="right">33.90.019</p>	
<p align="center"><b>Branch terminal board</b></p>	<p align="center"><b>G56</b></p>	<p align="center"><b>Connector for rear services</b></p>	<p align="center"><b>G73</b></p>
 <p>R2,5 ● B1 R2,5 ● B68 A R10 ● G95 (+) R10 ● A1 (+)</p> <p align="right">33.90.011</p>		 <p>BR ● B68 B BR ● P22</p> <p align="right">33.90.018</p>	



# ELECTRICAL SYSTEM

<p><b>Central fusebox (+)</b></p>  <p>R10 • G56</p>	<p><b>G95</b></p>	<p><b>Central fusebox</b></p>  <p>RN1 • B68 <span style="border: 1px solid black; padding: 0 2px;">E</span> 6</p>	<p><b>G95 <span style="border: 1px solid black; padding: 0 2px;">B</span></b></p>
33.90.006		33.90.005	
<p><b>Central fusebox</b></p>  <p>S • P21 5 S • C7 5</p>	<p><b>G95 <span style="border: 1px solid black; padding: 0 2px;">E</span></b></p>	<p><b>Central fusebox</b></p>  <p>N1,5 • G283 1</p>	<p><b>G95 <span style="border: 1px solid black; padding: 0 2px;">G</span></b></p>
33.90.003		33.90.005	
<p><b>Central fusebox</b></p>  <p>S • B1 1</p>	<p><b>G95 <span style="border: 1px solid black; padding: 0 2px;">H</span></b></p>	<p><b>Central fusebox</b></p>  <p>AN1 • P1 1 AN1 • B68 <span style="border: 1px solid black; padding: 0 2px;">C</span> 1</p>	<p><b>G95 <span style="border: 1px solid black; padding: 0 2px;">I</span></b></p>
33.90.004		33.90.004	

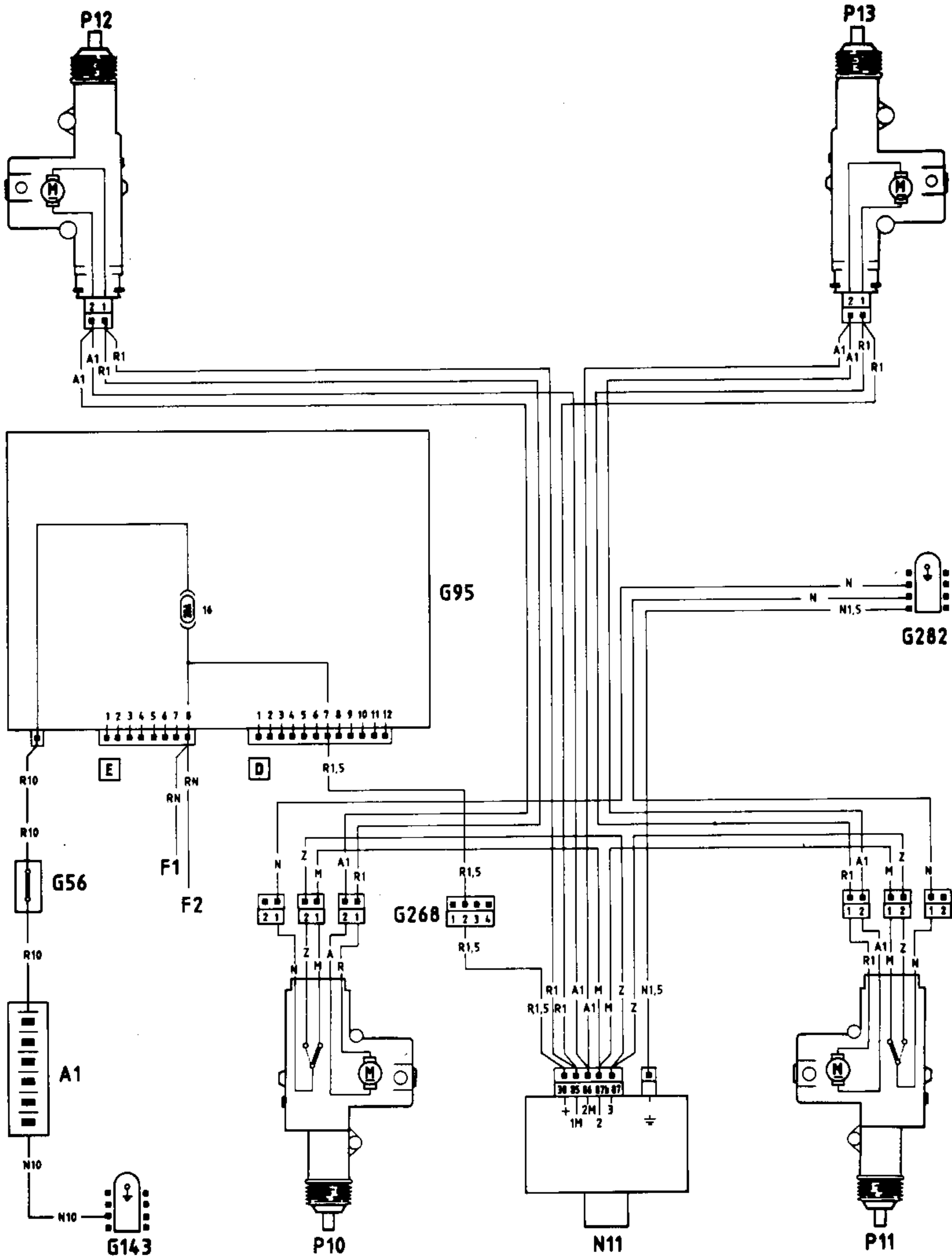
# ELECTRICAL SYSTEM

<p><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>  <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>	<p><b>Luggage compartment earth - left side</b></p> <p style="text-align: right;"><b>G185</b></p>  <p>N1 • E26</p> <p>N1 • E25</p> <p style="text-align: right;">33.90.032</p>
<p><b>Boot lid earth</b></p> <p style="text-align: right;"><b>G266</b></p>  <p>N1 • E17</p> <p>N1,5 • O1</p> <p style="text-align: right;">33.90.032</p>	<p><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>  <p>N1,5 • G95 <span style="border: 1px solid black; padding: 0 2px;">G</span></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p style="text-align: right;">33.90.001</p>
<p><b>Rear window wiper motor</b></p> <p style="text-align: right;"><b>P21</b></p>  <p>N • E17 3</p> <p>S • G95 <span style="border: 1px solid black; padding: 0 2px;">E</span> 1</p> <p>BR • G37 2</p> <p style="text-align: right;">33.90.021 - 33.90.035</p>	<p><b>Rear window washer pump</b></p> <p style="text-align: right;"><b>P22</b></p>  <p>BR • G73</p> <p>N • E26</p> <p>N • L9 (*)</p> <p style="text-align: right;">33.90.020</p>

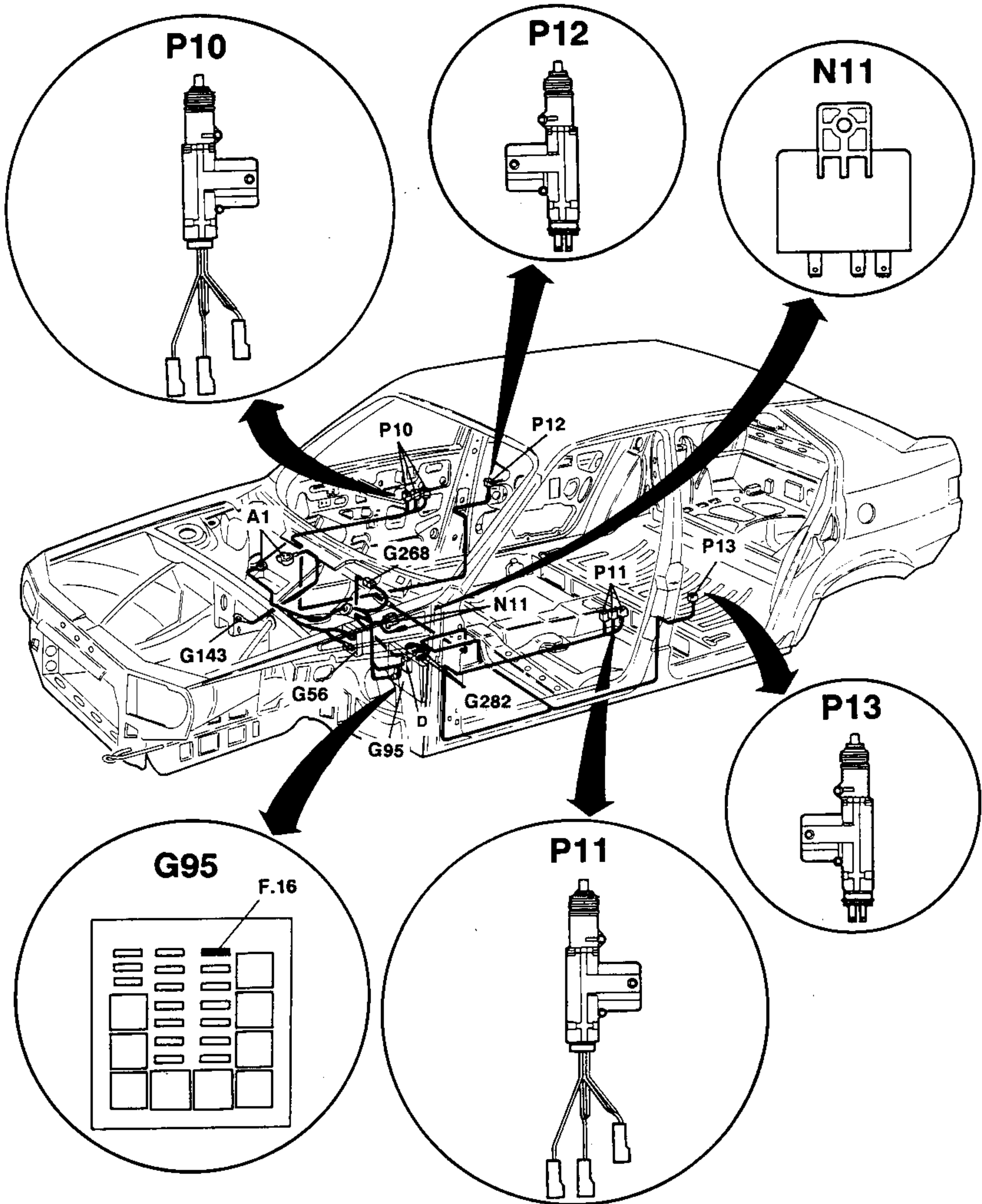
(\*) Specific to 4 x 4 version

DOOR LOCK

Wiring diagram

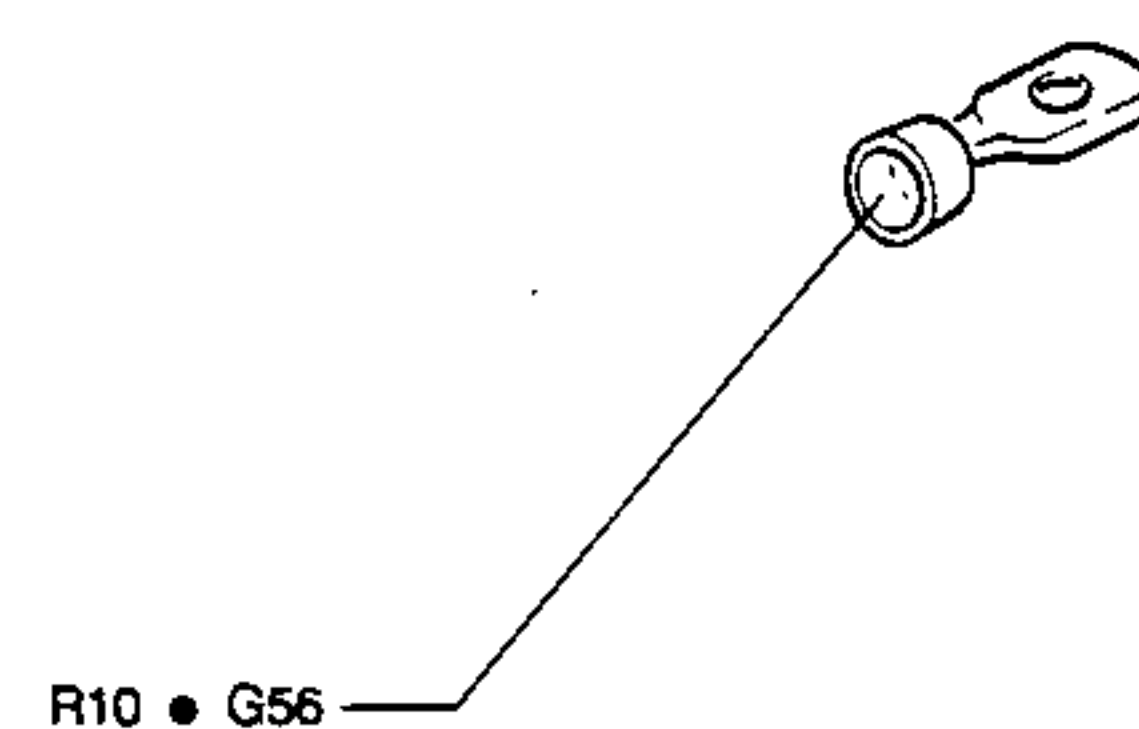
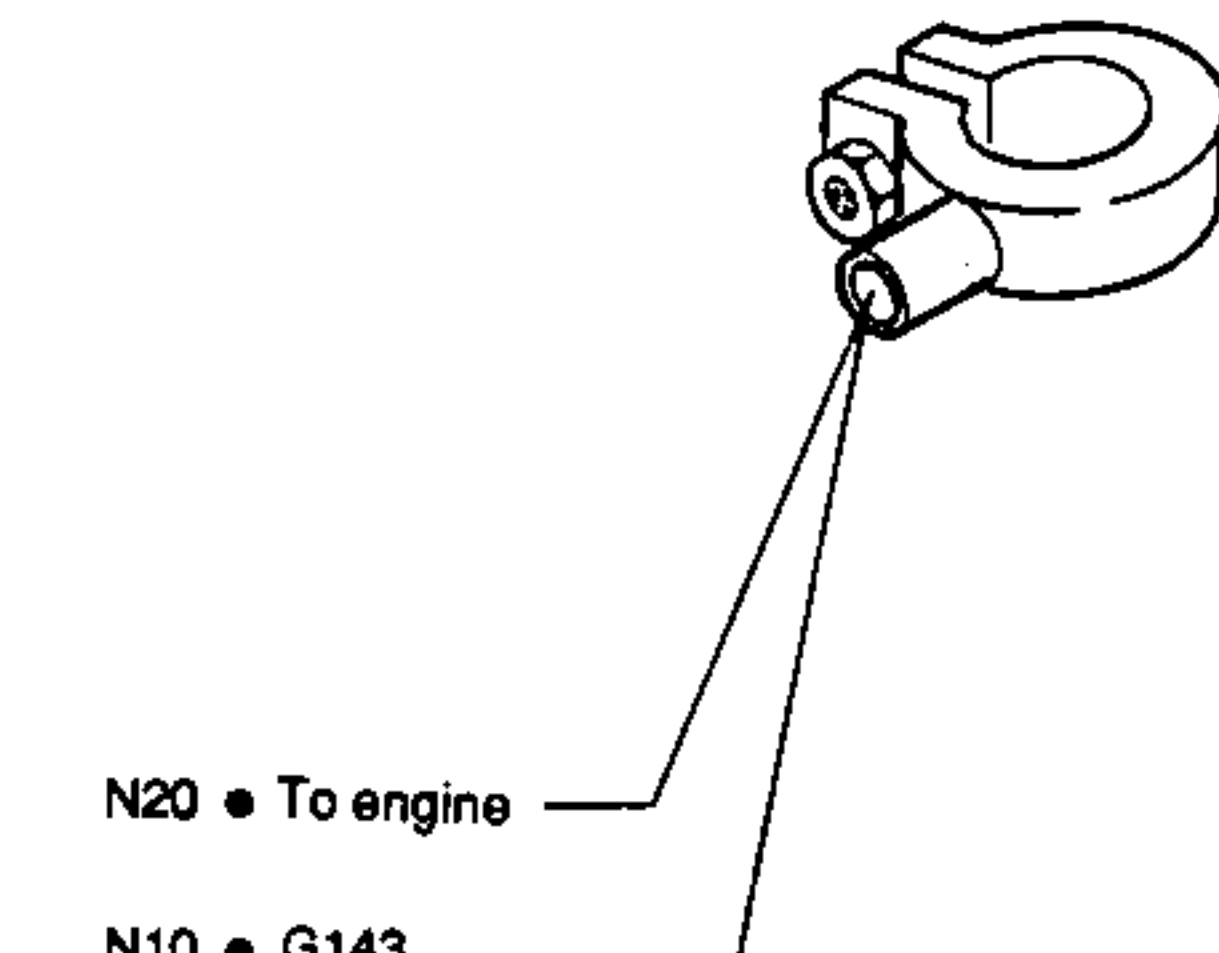
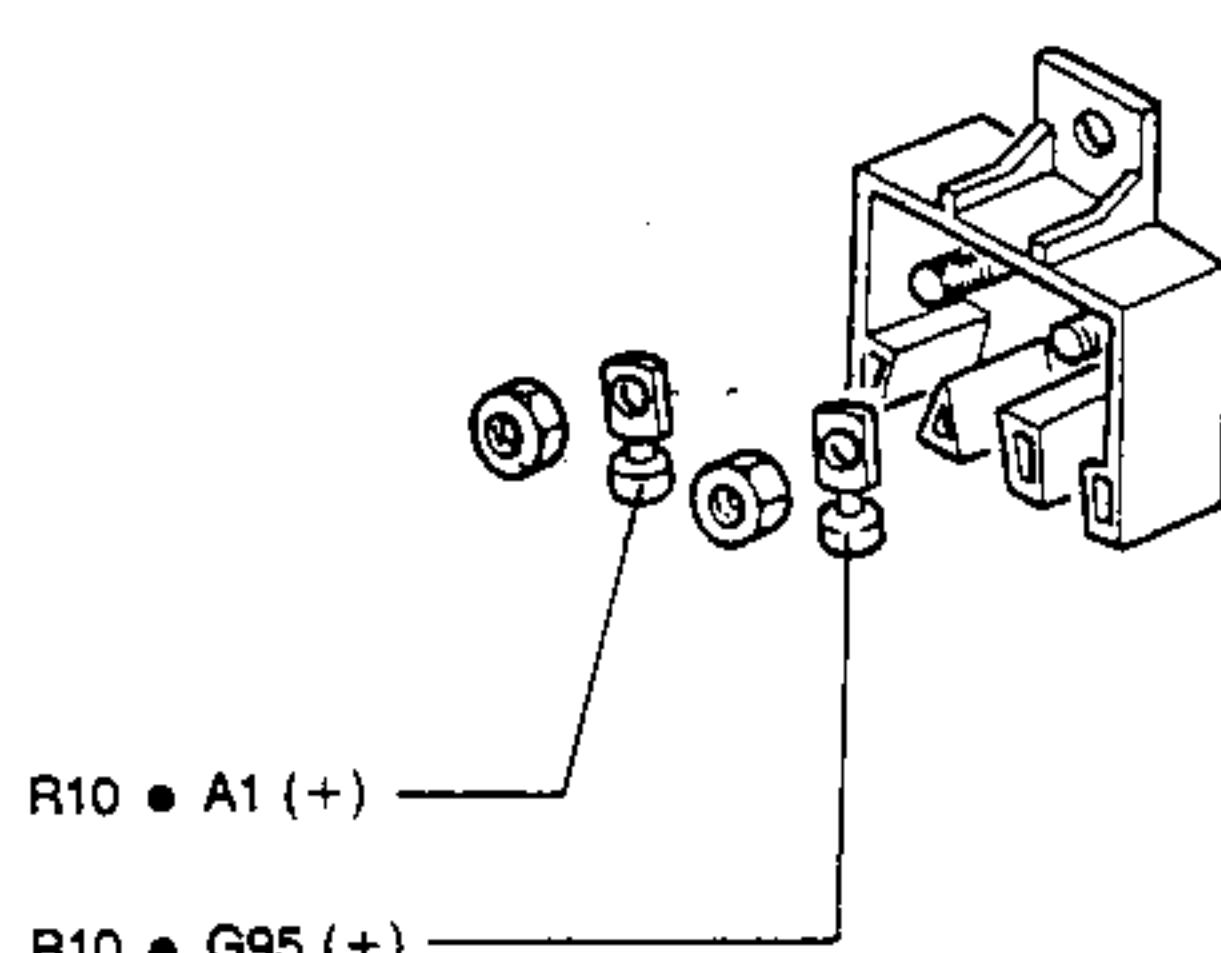
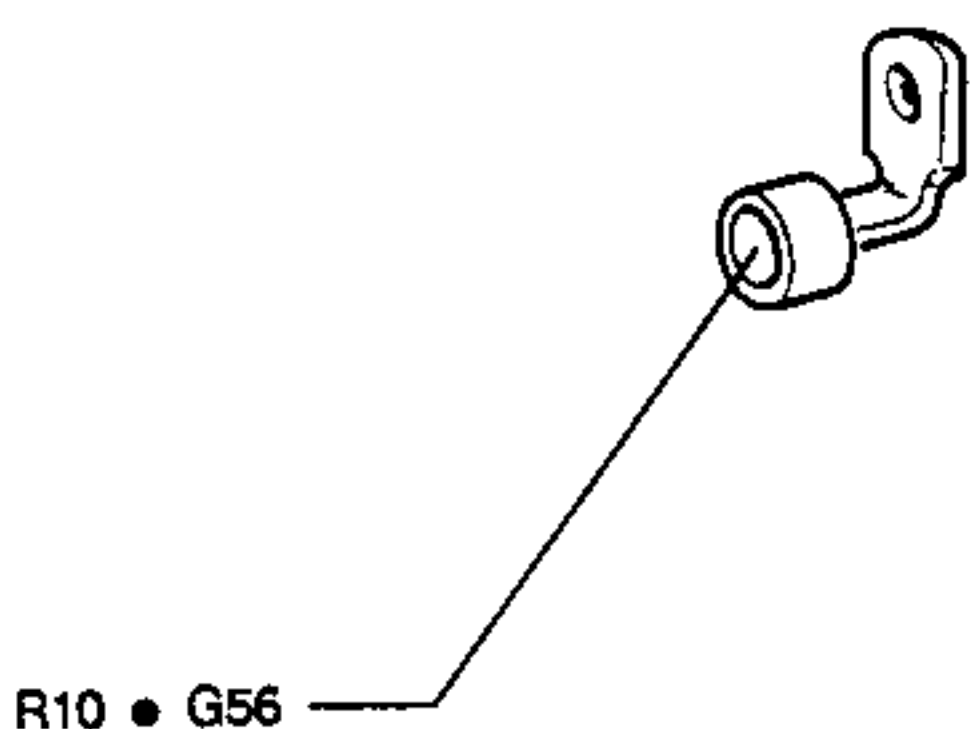
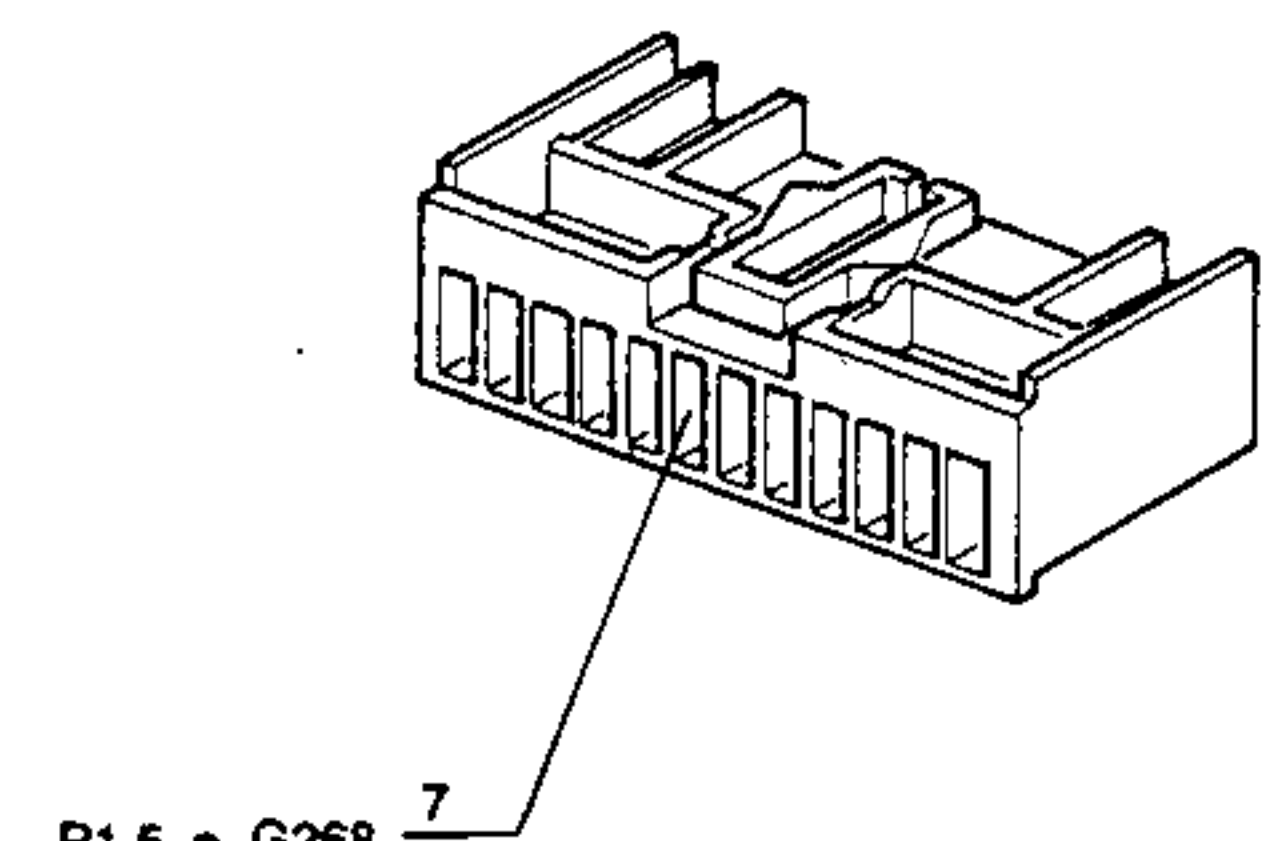
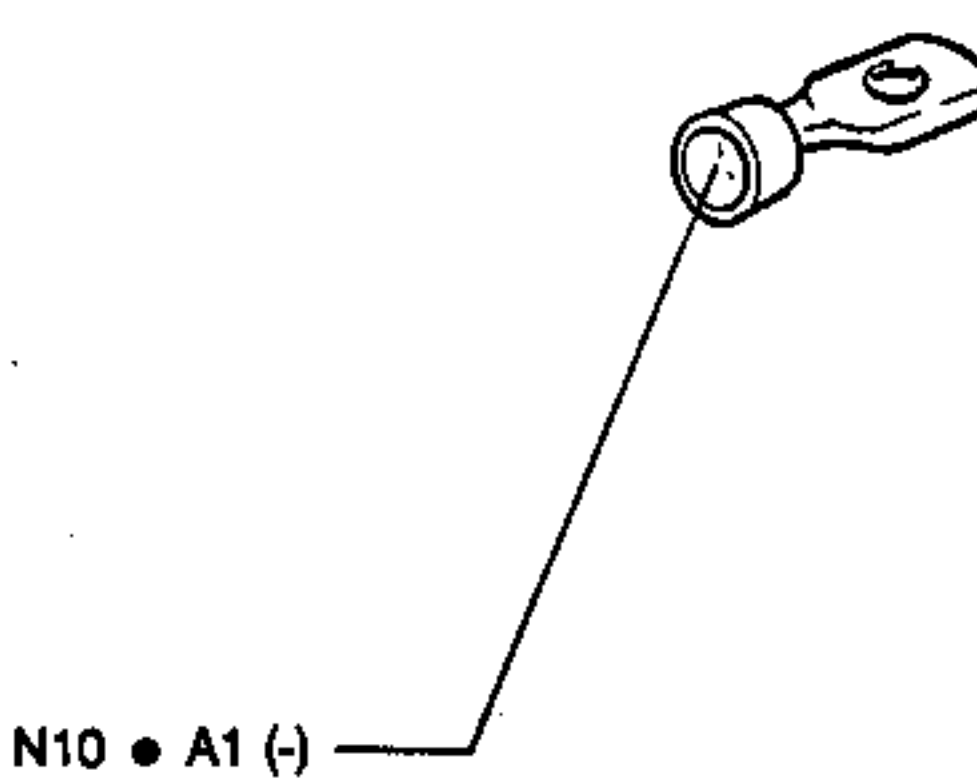


Wiring

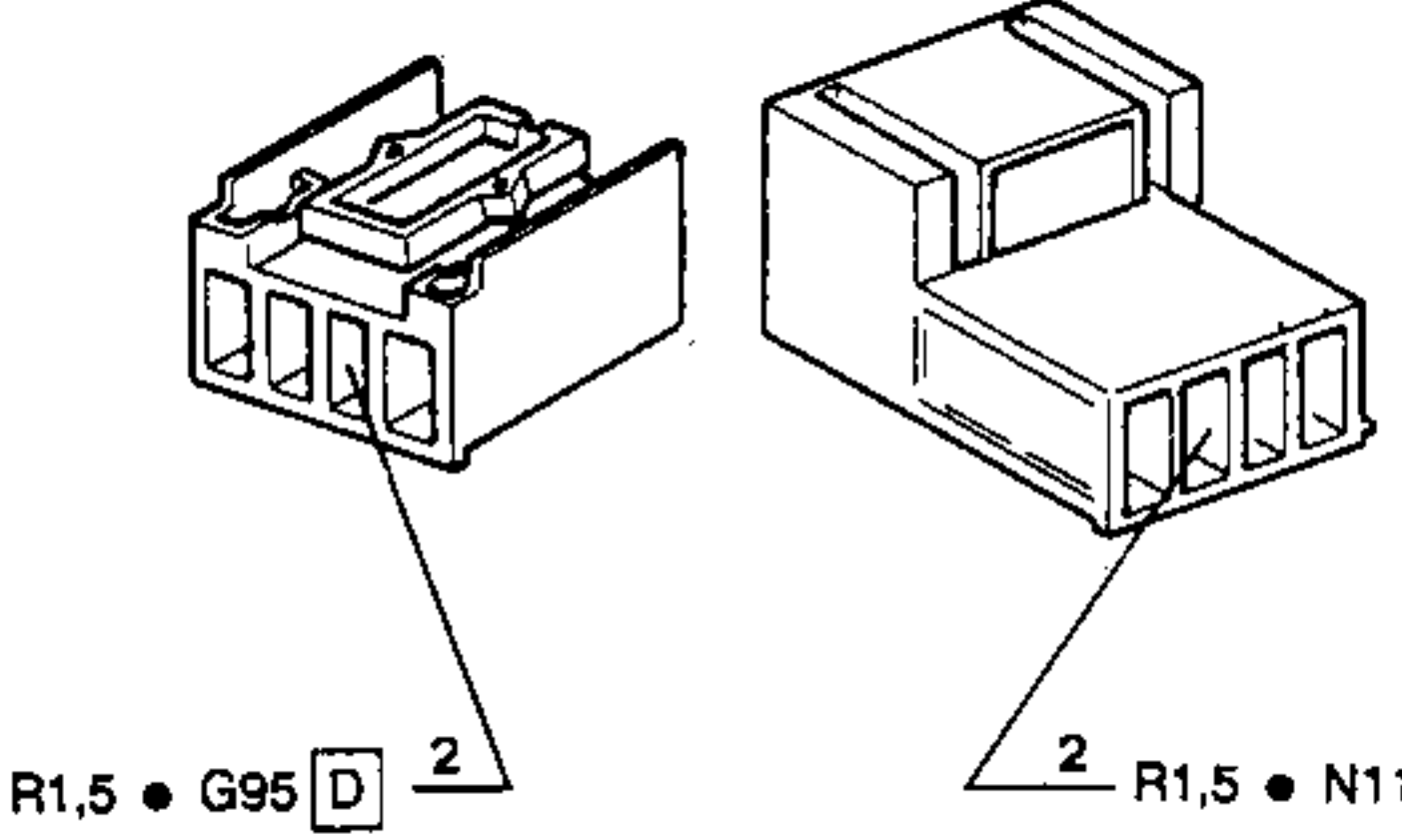
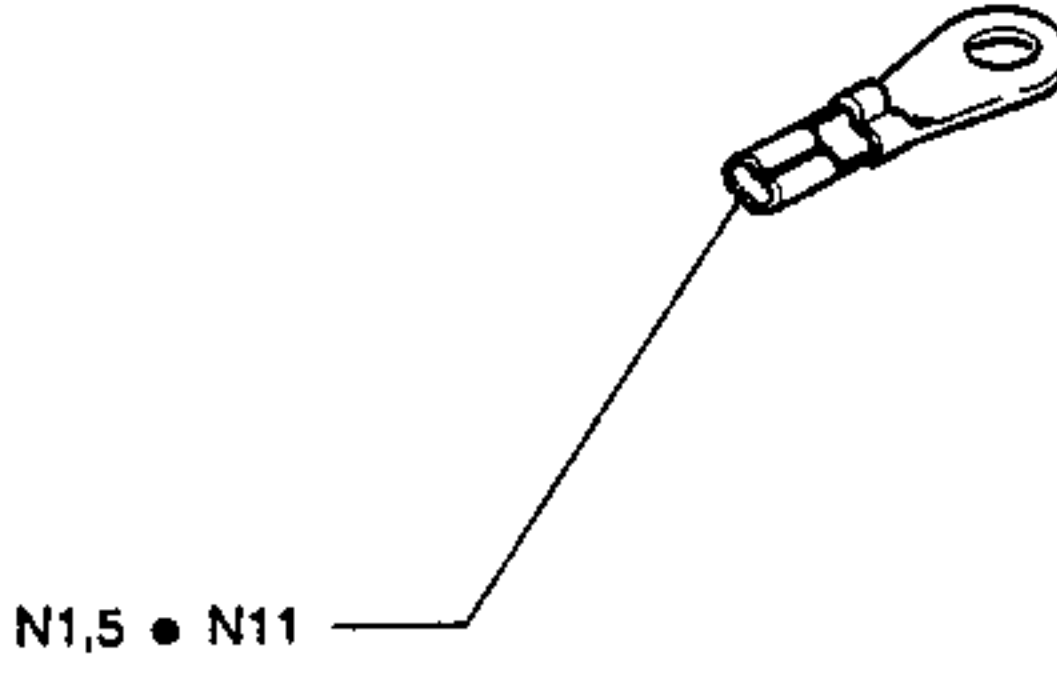
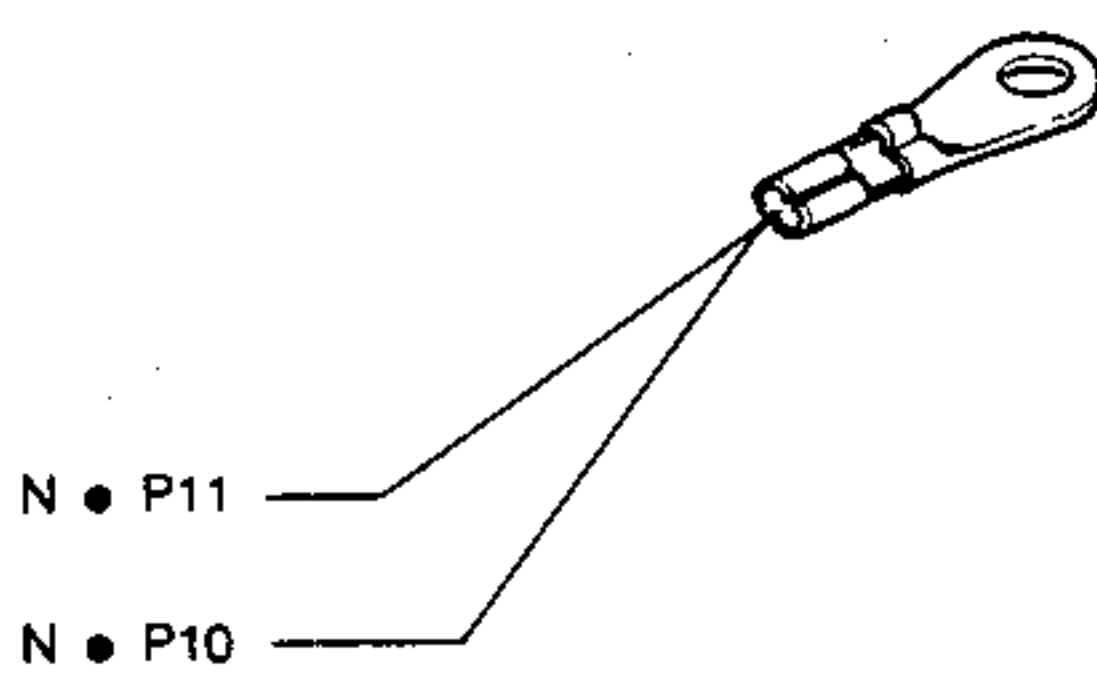
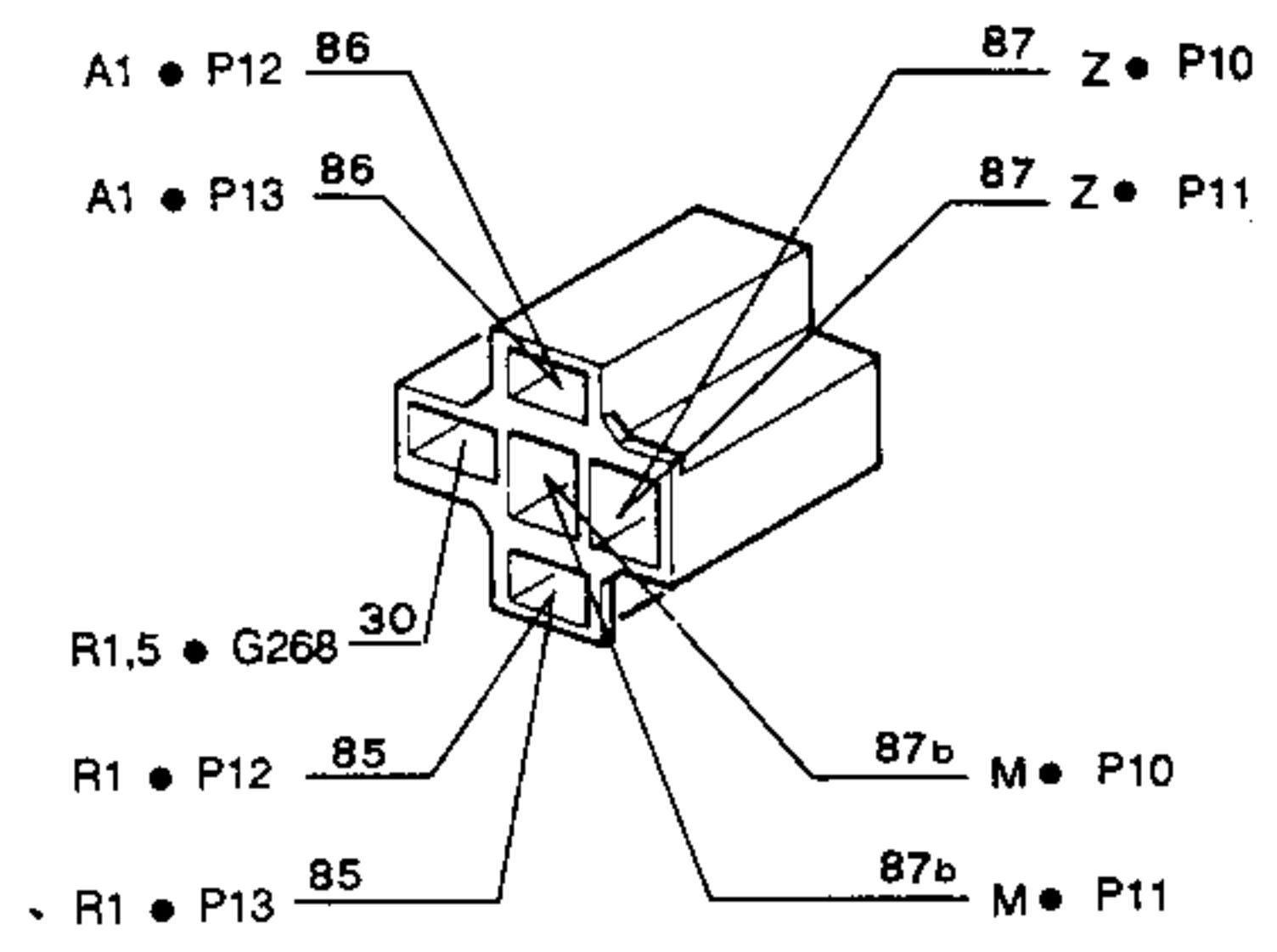
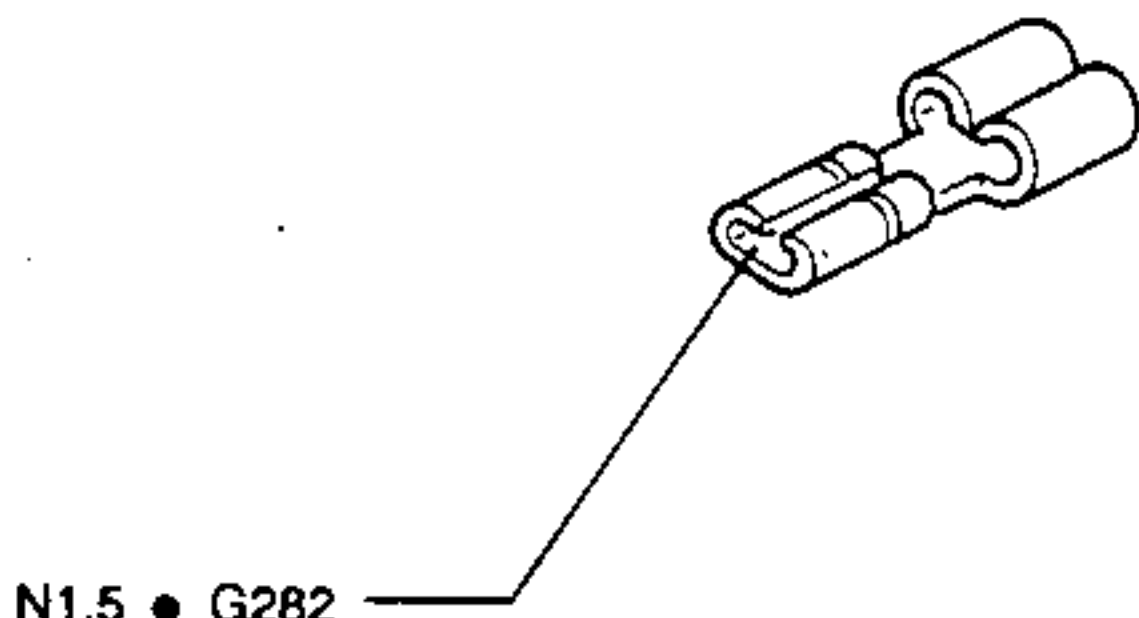
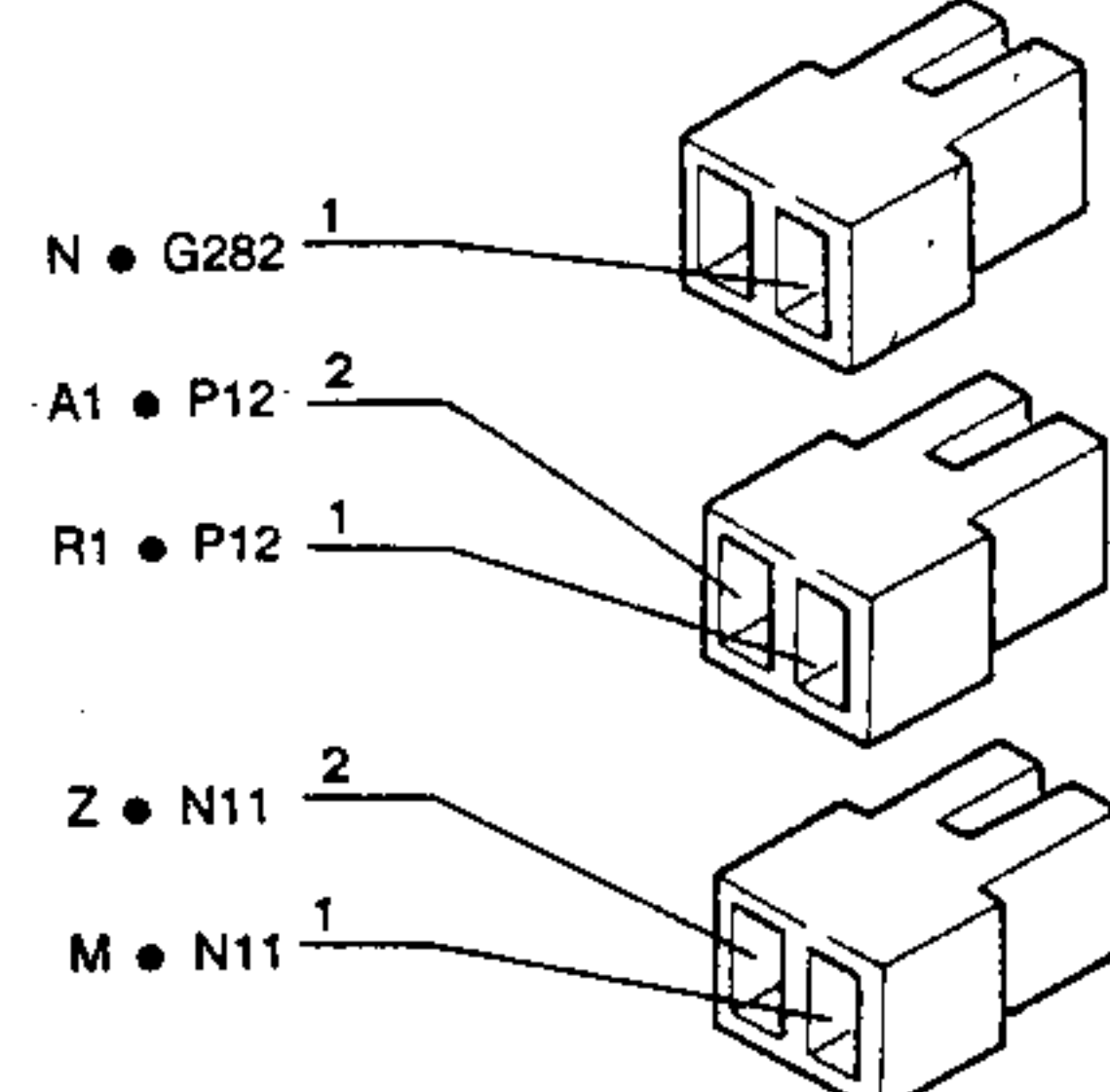


# ELECTRICAL SYSTEM

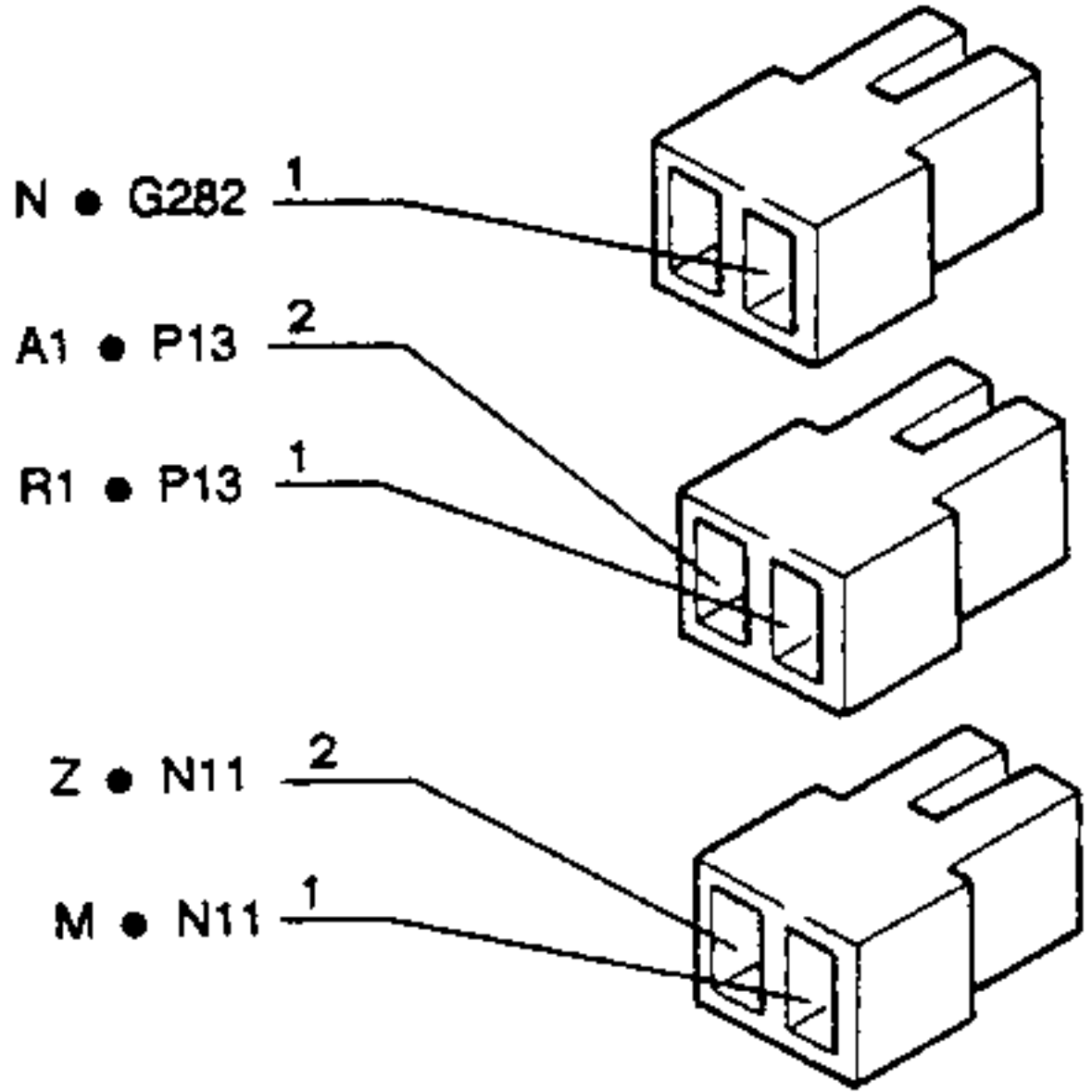
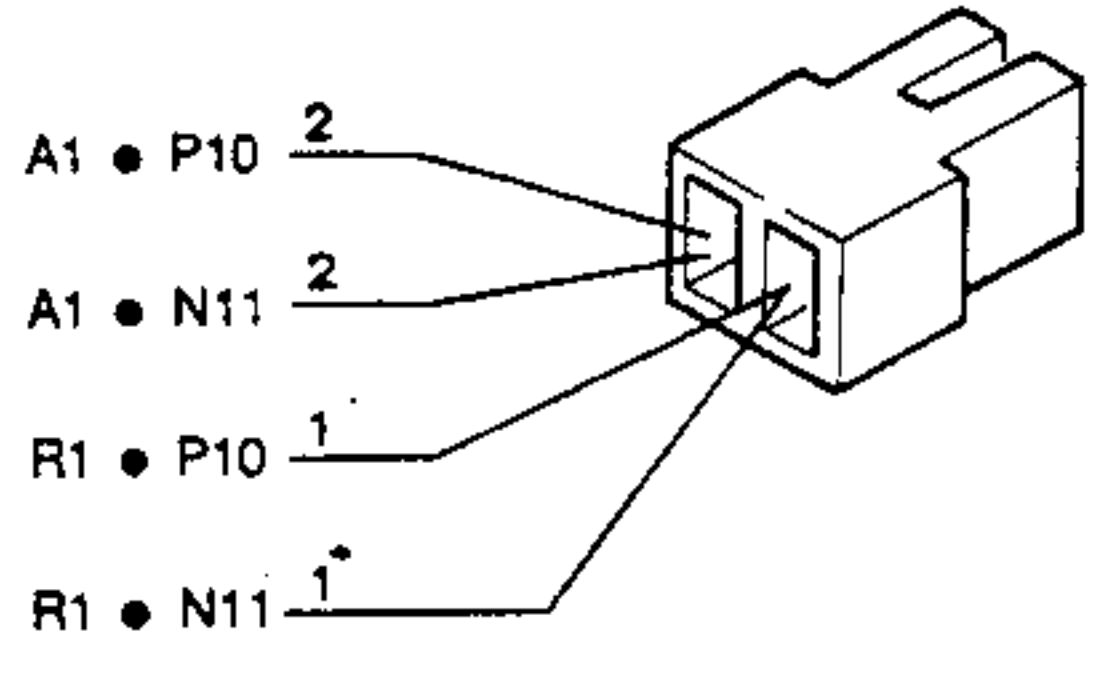
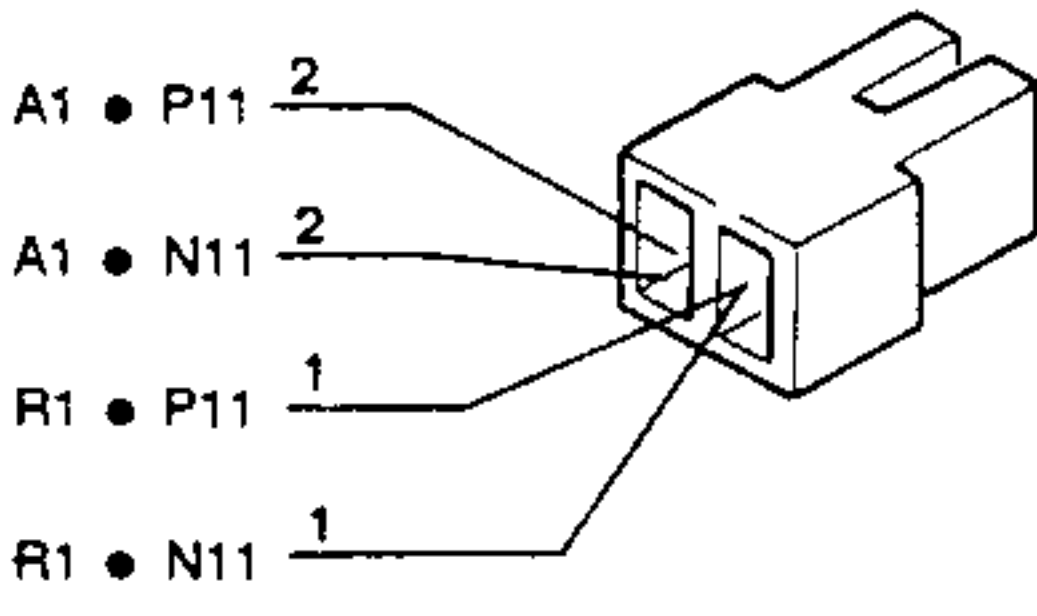
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 ● G56</p>	33.90.001	 <p>N20 ● To engine</p> <p>N10 ● G143</p>	33.90.002
Branch terminal board	G56	Central fusebox (+)	G95
 <p>R10 ● A1 (+)</p> <p>R10 ● G95 (+)</p>	33.90.009	 <p>R10 ● G56</p>	33.90.006
Central fusebox	G95 D	Central service compartment earth	G143
 <p>R1,5 ● G268 7</p>	33.90.004	 <p>N10 ● A1 (-)</p>	33.90.001

# ELECTRICAL SYSTEM

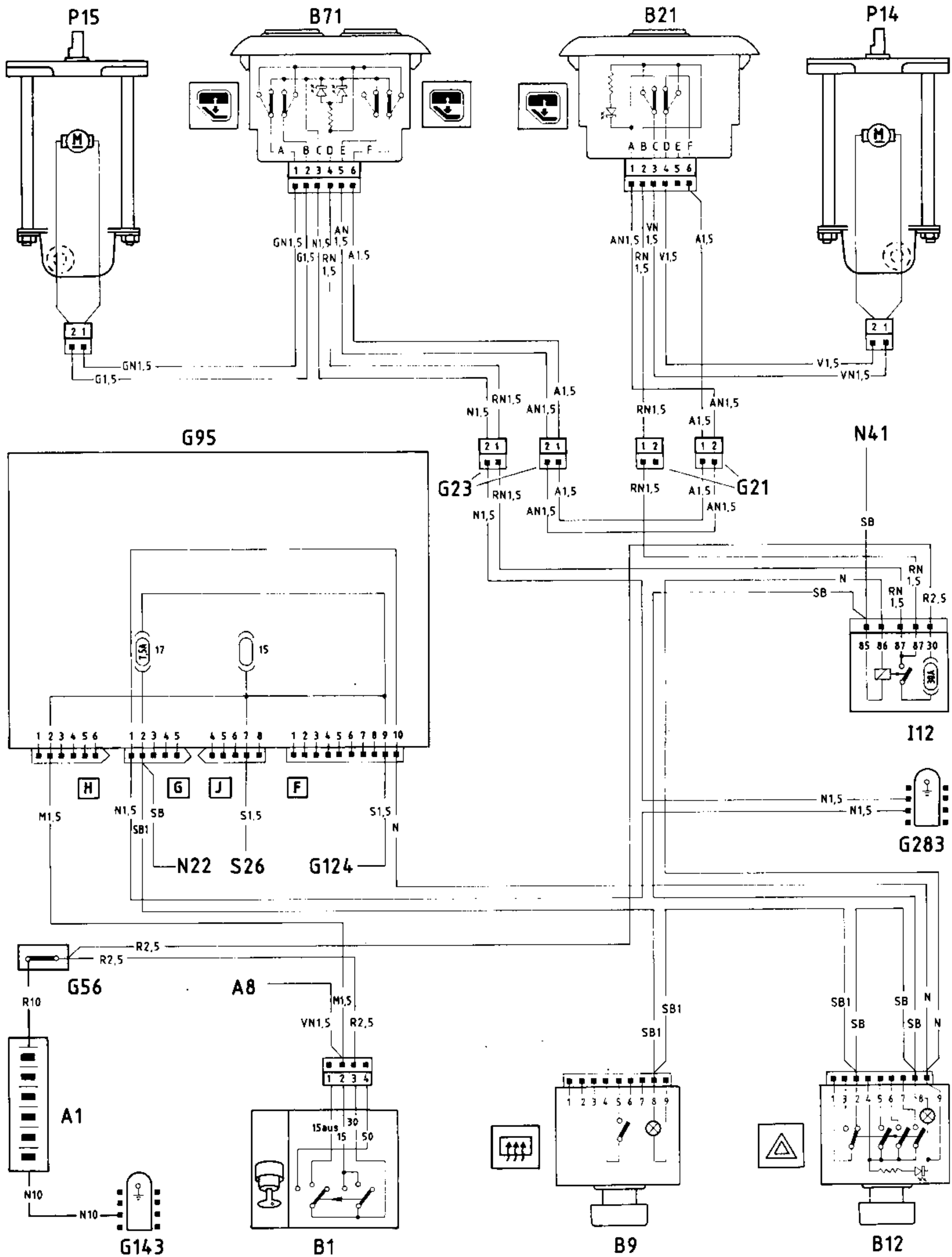
<p style="text-align: center;"><b>Door lock wiring and handbrake switch wiring connector</b></p> <p style="text-align: right;"><b>G268</b></p>	<p style="text-align: center;"><b>Earth on front tunnel</b></p> <p style="text-align: right;"><b>G282</b></p>
 <p style="text-align: right;">33.90.018</p>	 <p style="text-align: right;">33.90.014</p>
<p style="text-align: center;"><b>Earth on front tunnel</b></p> <p style="text-align: right;"><b>G282</b></p>	<p style="text-align: center;"><b>Door lock control unit</b></p> <p style="text-align: right;"><b>N11</b></p>
 <p style="text-align: right;">33.90.014</p>	 <p style="text-align: right;">33.90.023</p>
<p style="text-align: center;"><b>Door lock control unit (-)</b></p> <p style="text-align: right;"><b>N11</b></p>	<p style="text-align: center;"><b>Front right door locking motor</b></p> <p style="text-align: right;"><b>P10</b></p>
 <p style="text-align: right;">33.90.021</p>	 <p style="text-align: right;">33.90.017</p>

ELECTRICAL SYSTEM

Front left door locking motor	P11	Rear right door locking motor	P12
 <p>N ● G282 1</p> <p>A1 ● P13 2</p> <p>R1 ● P13 1</p> <p>Z ● N11 2</p> <p>M ● N11 1</p>	33.90.017	 <p>A1 ● P10 2</p> <p>A1 ● N11 2</p> <p>R1 ● P10 1</p> <p>R1 ● N11 1</p>	33.90.017
Rear left door locking motor	P13		
 <p>A1 ● P11 2</p> <p>A1 ● N11 2</p> <p>R1 ● P11 1</p> <p>R1 ● N11 1</p>	33.90.017		

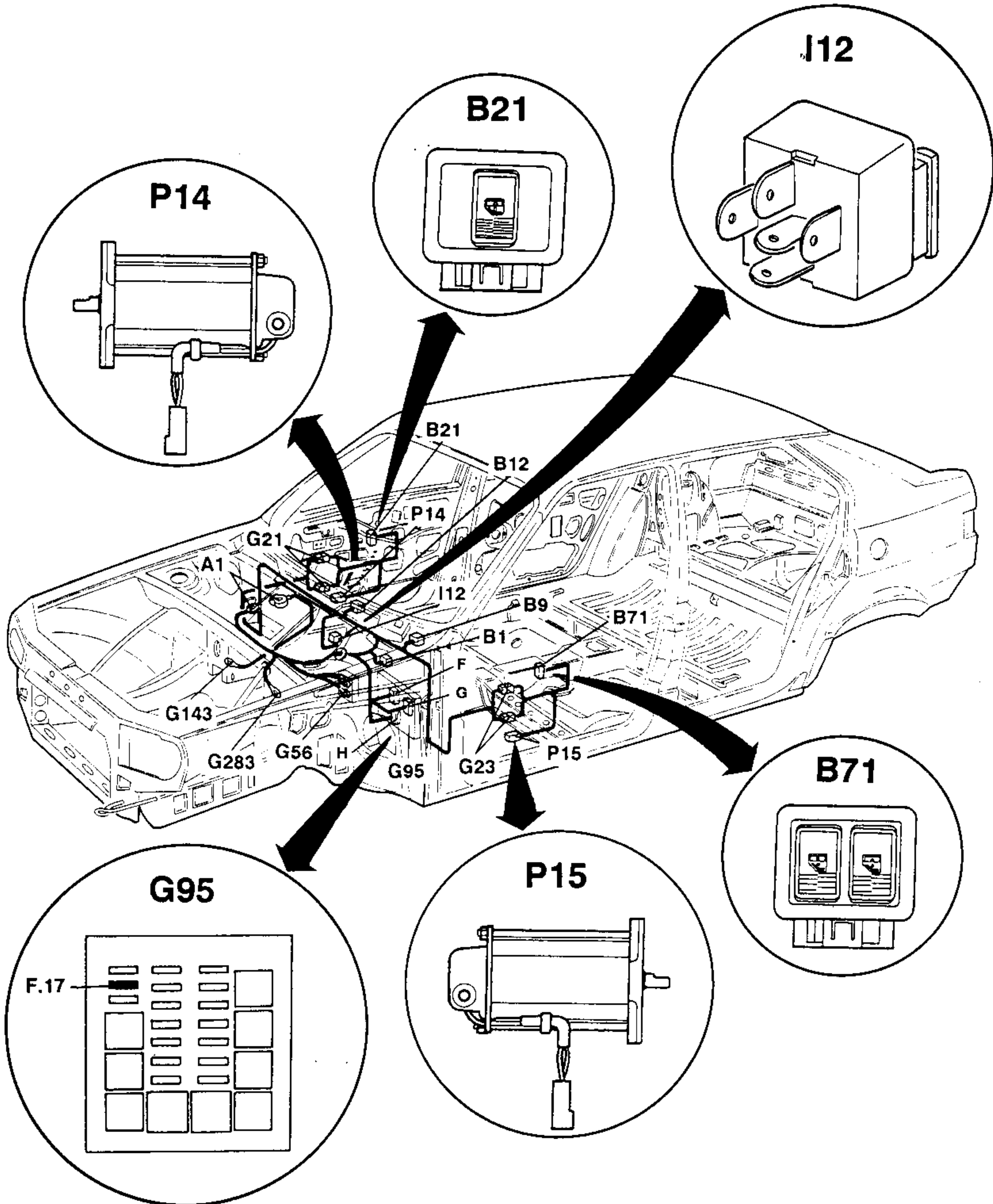
POWER WINDOWS

Wiring diagram



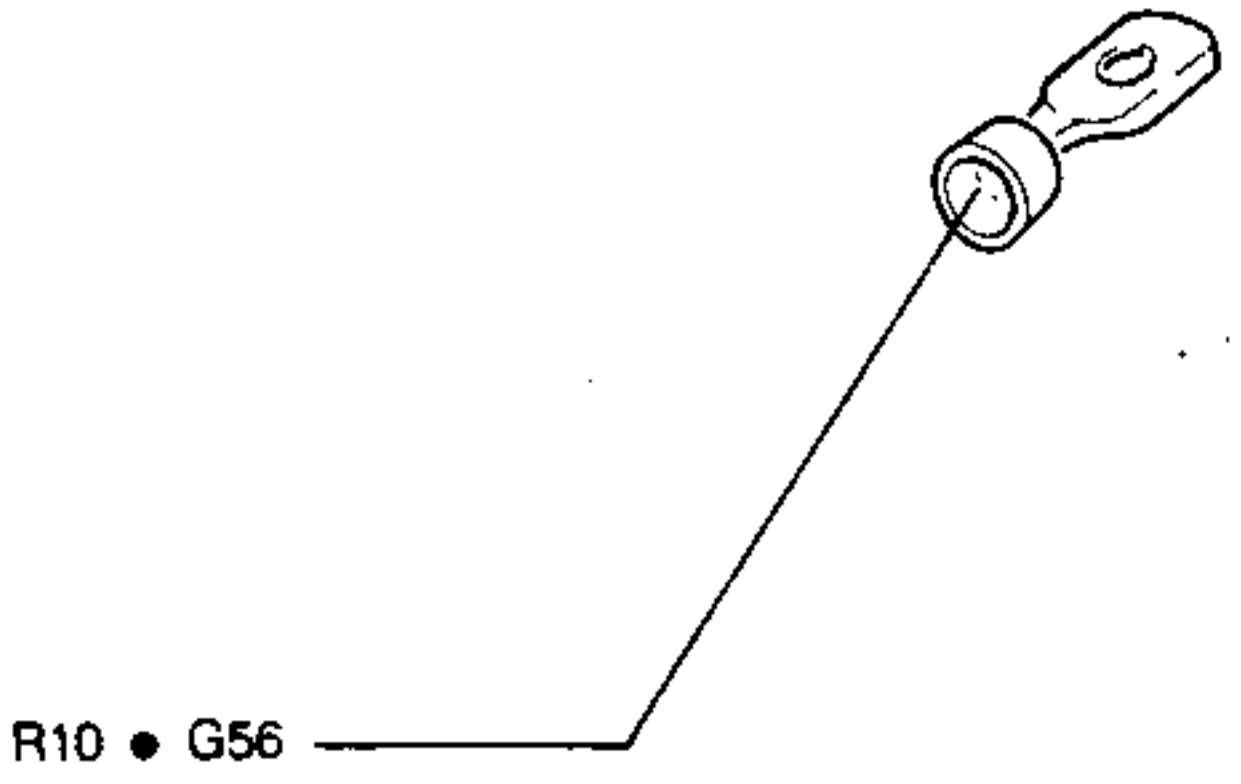
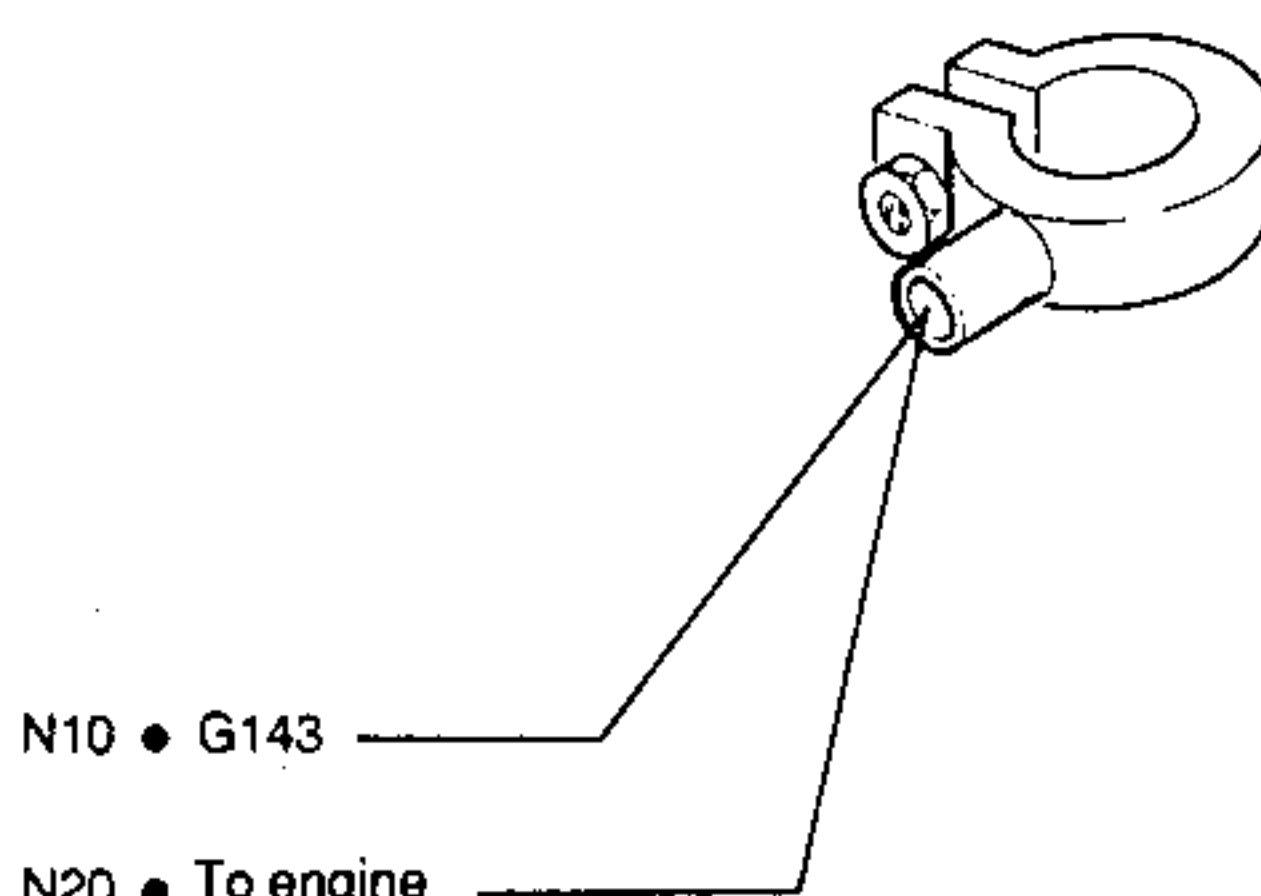
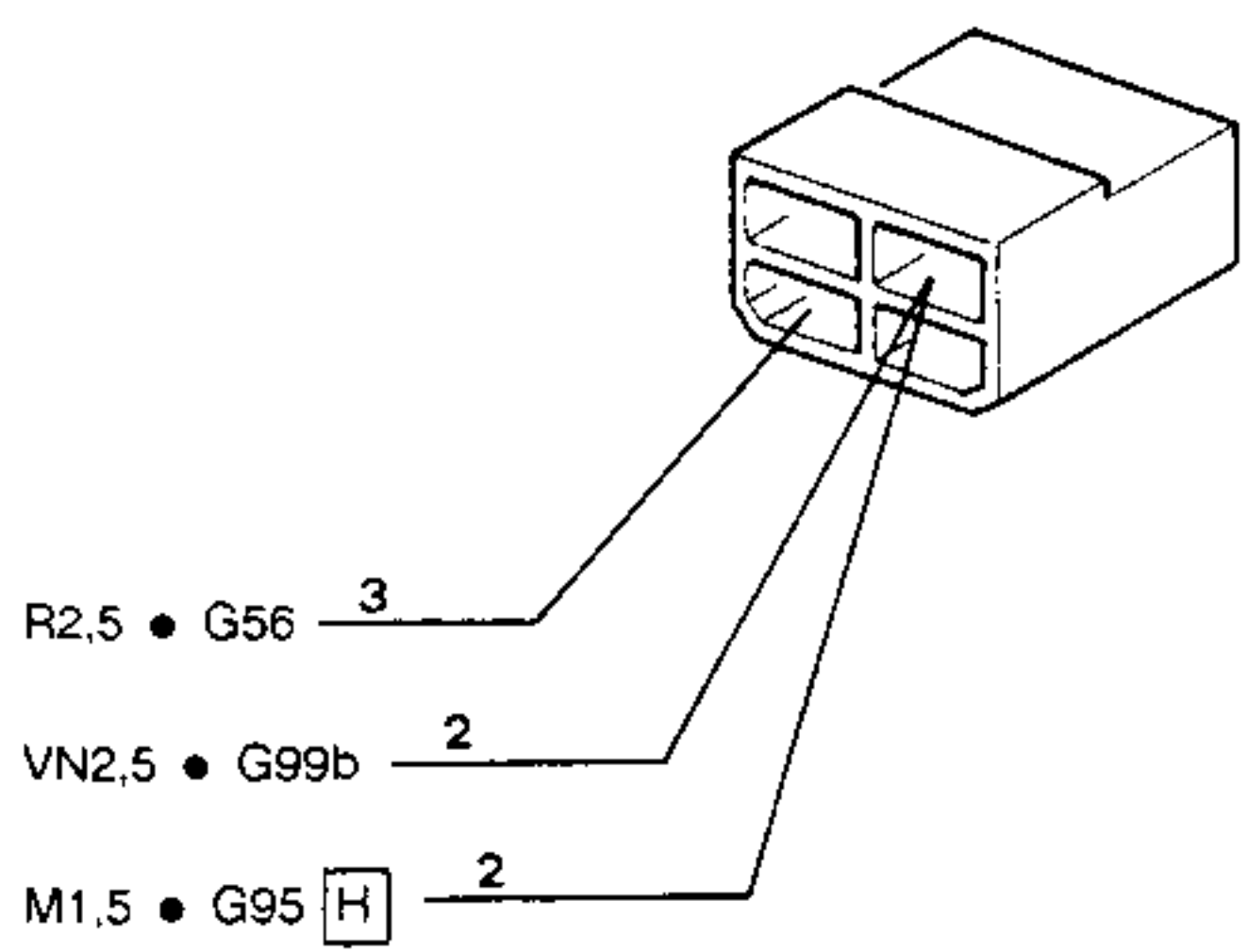
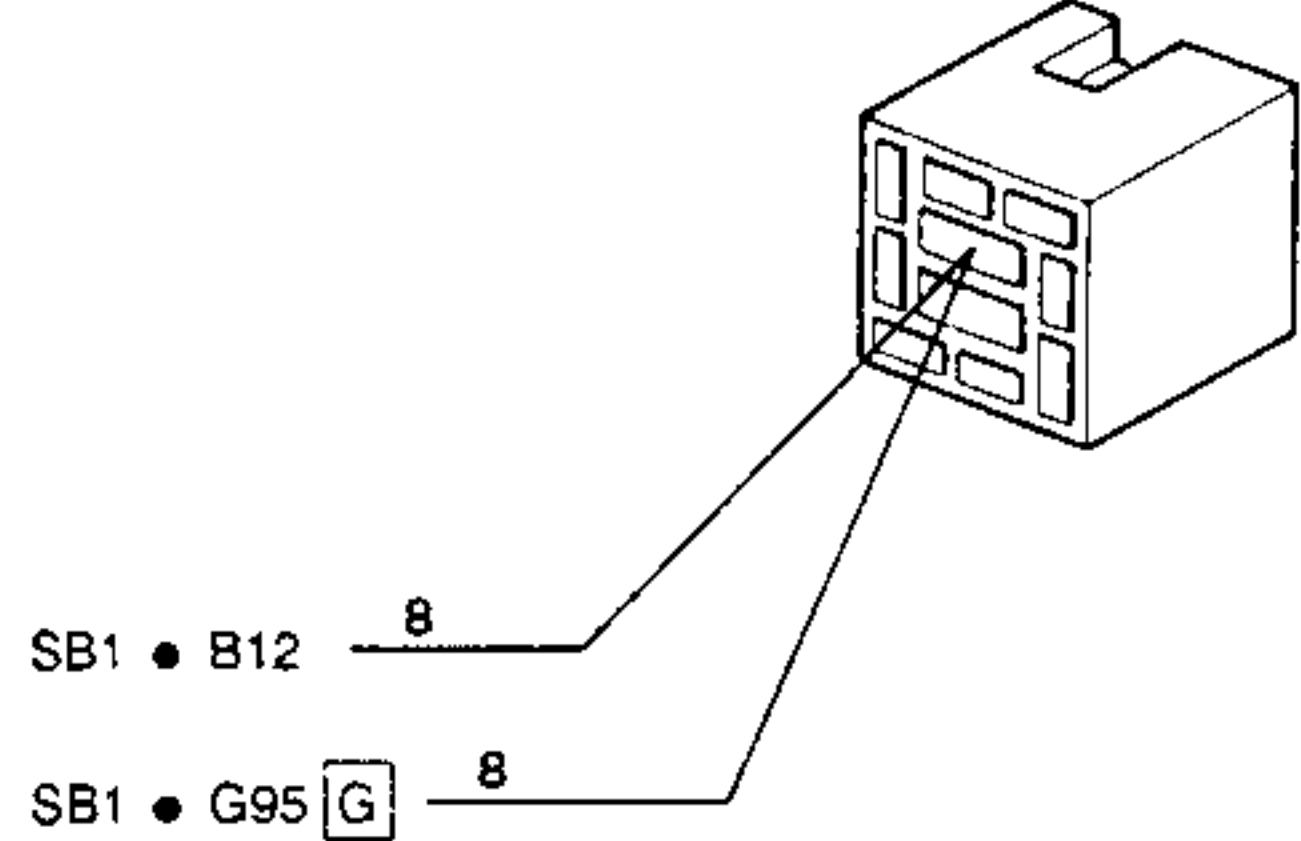
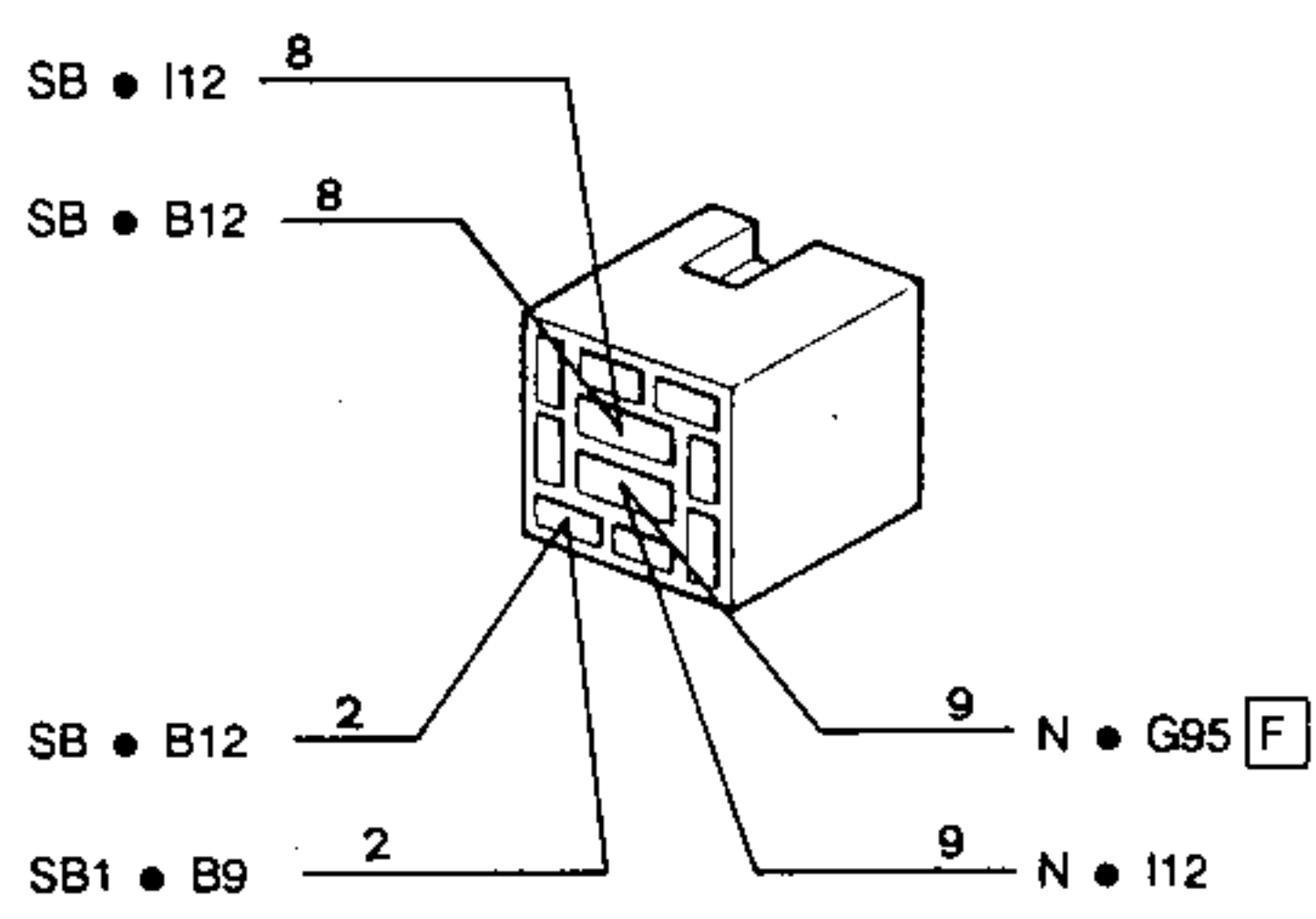
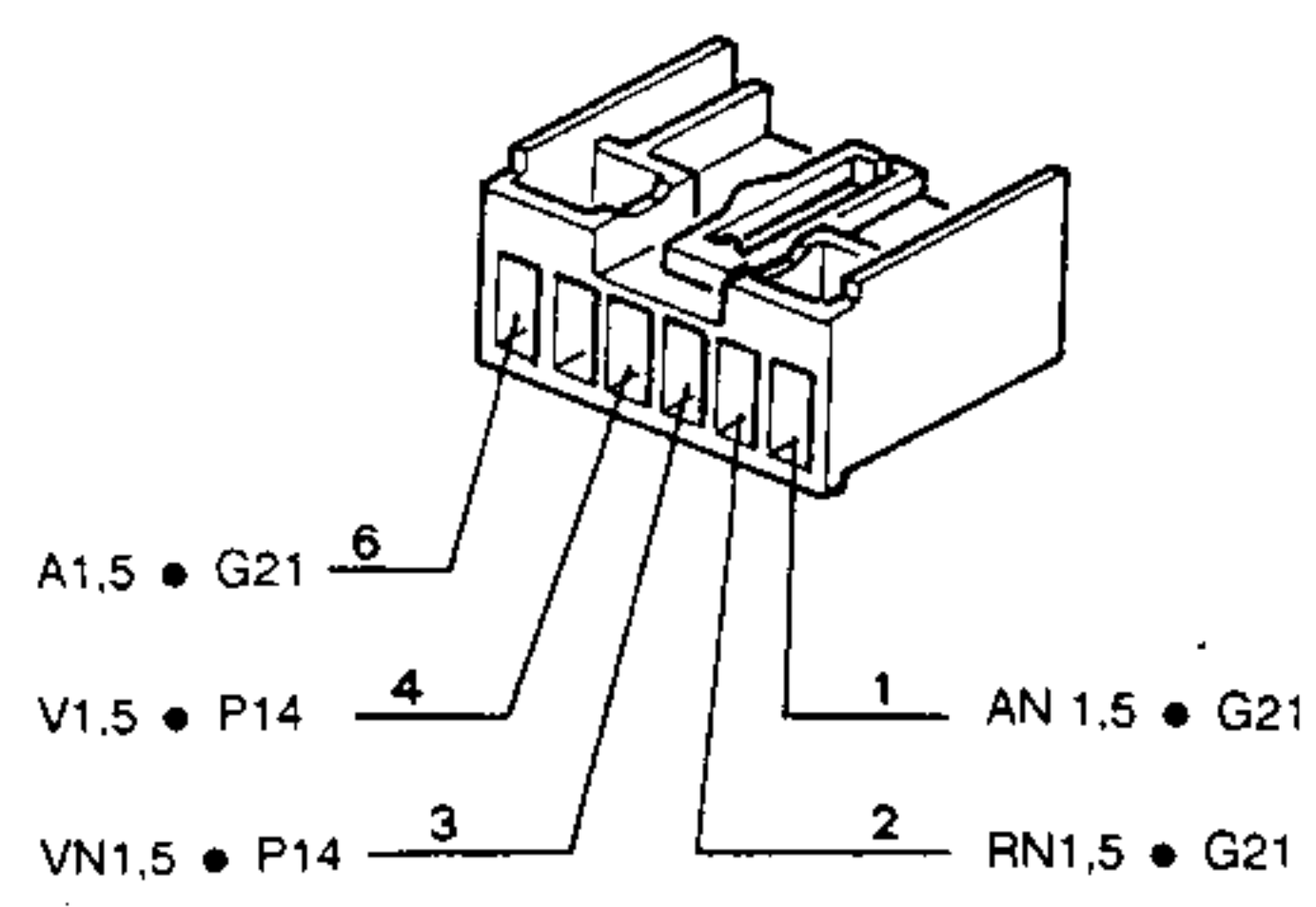


Wiring

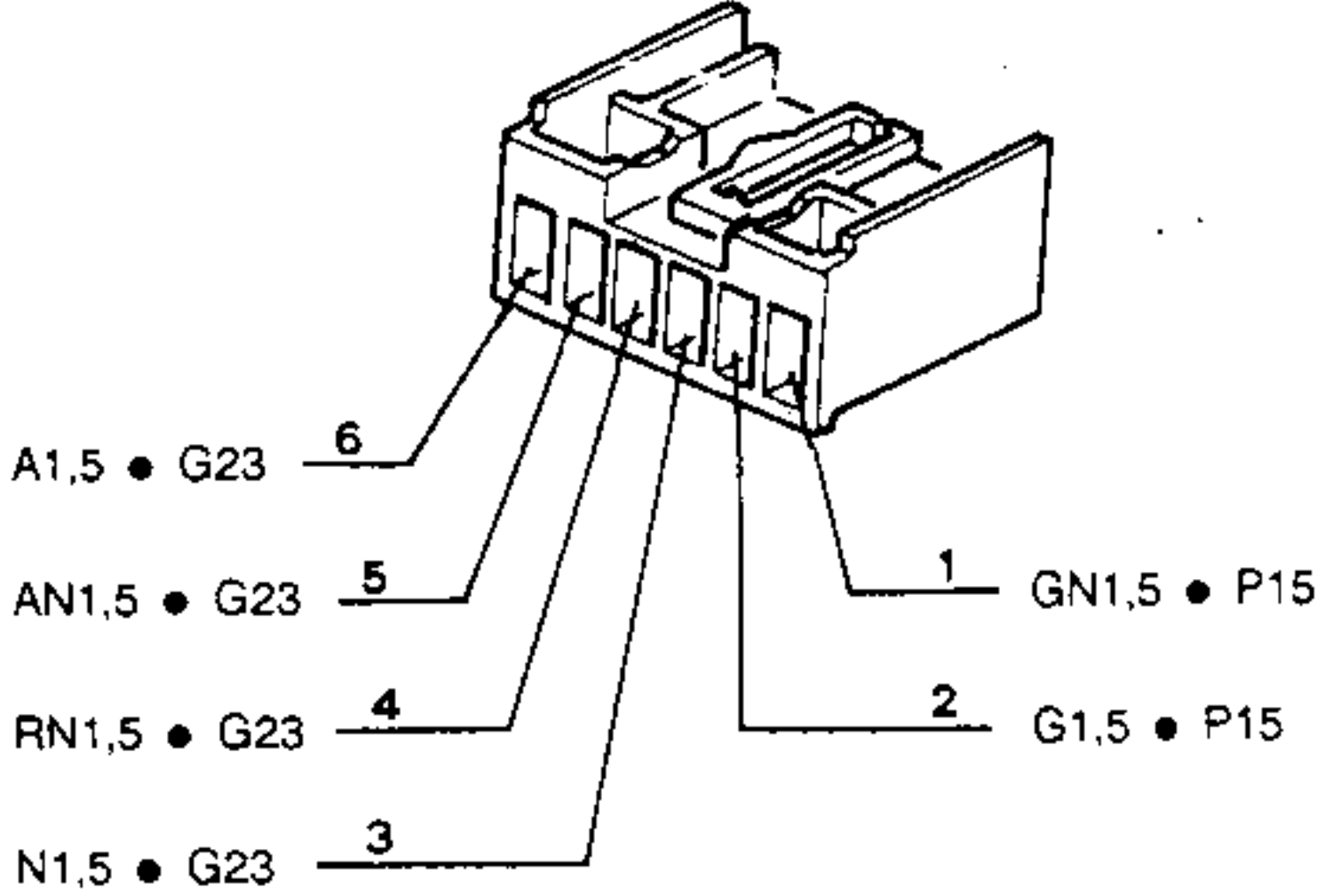
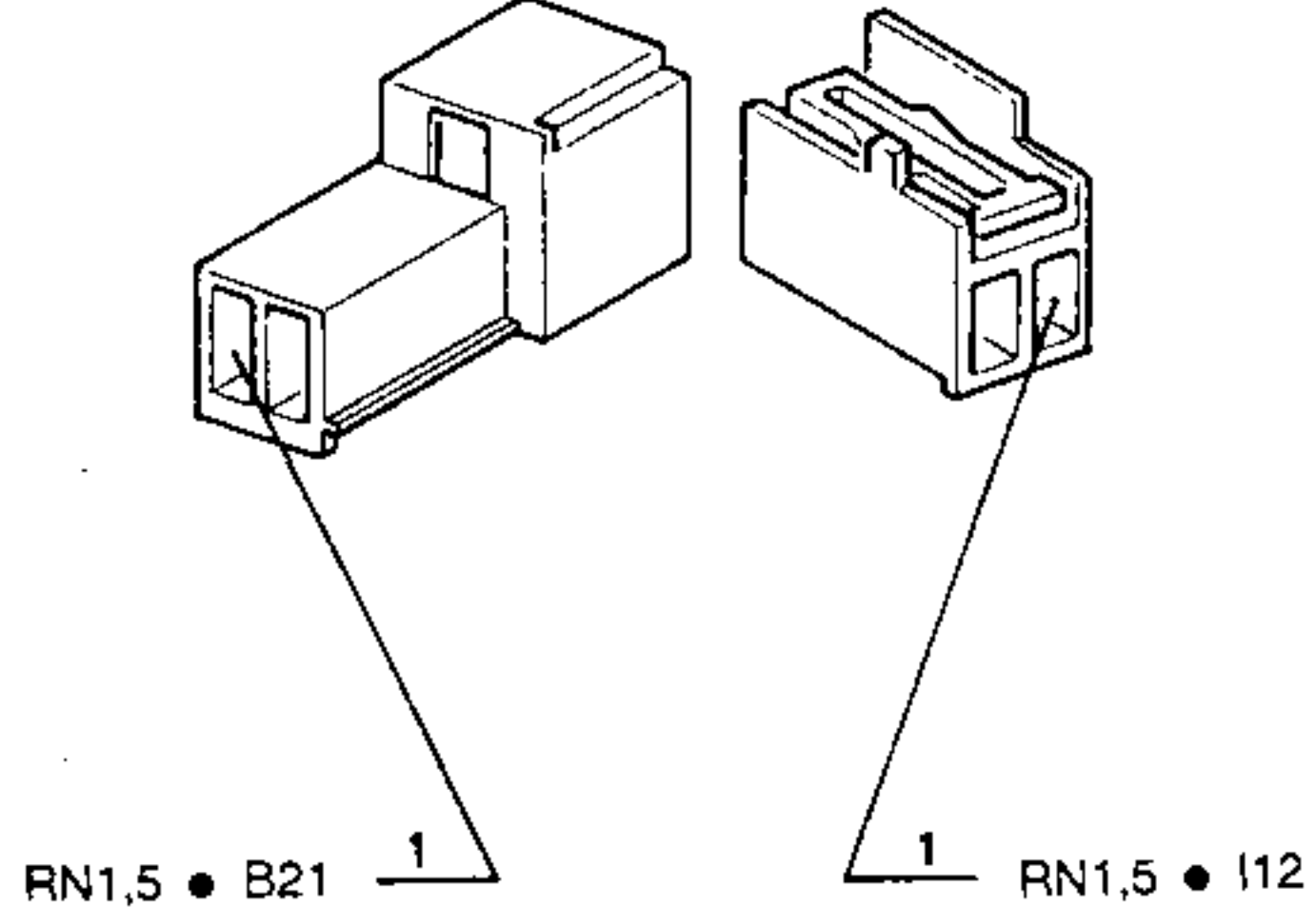
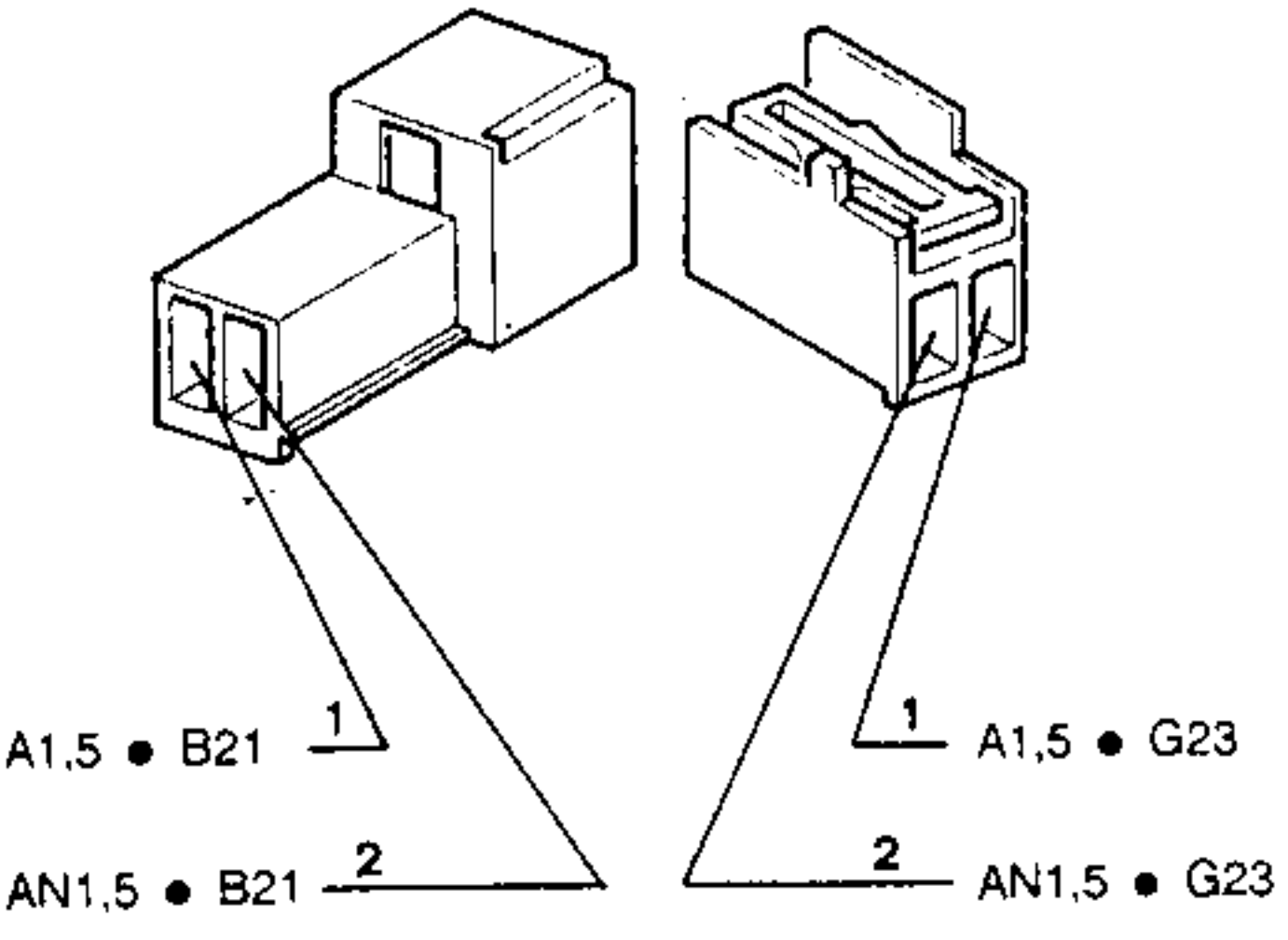
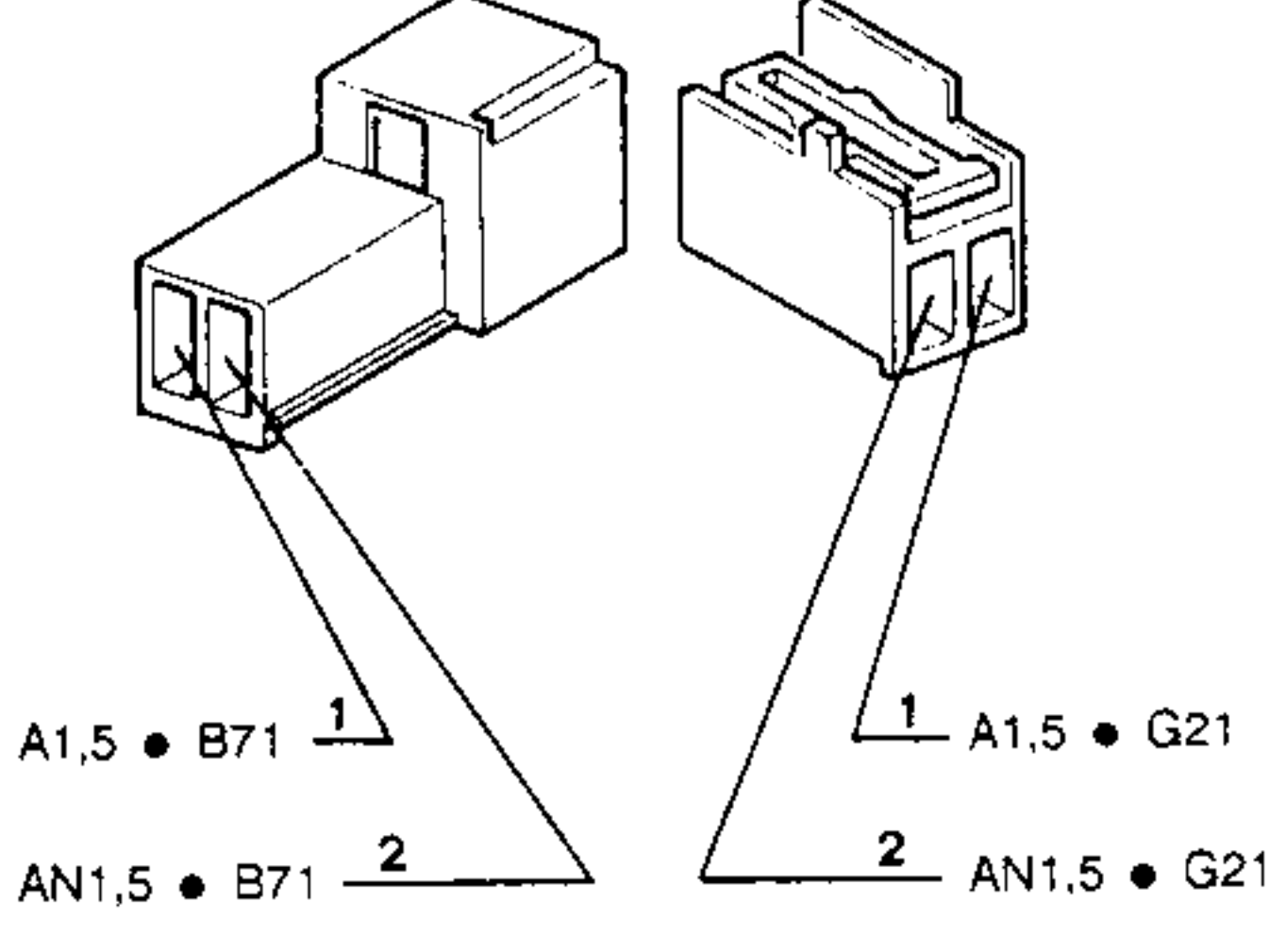
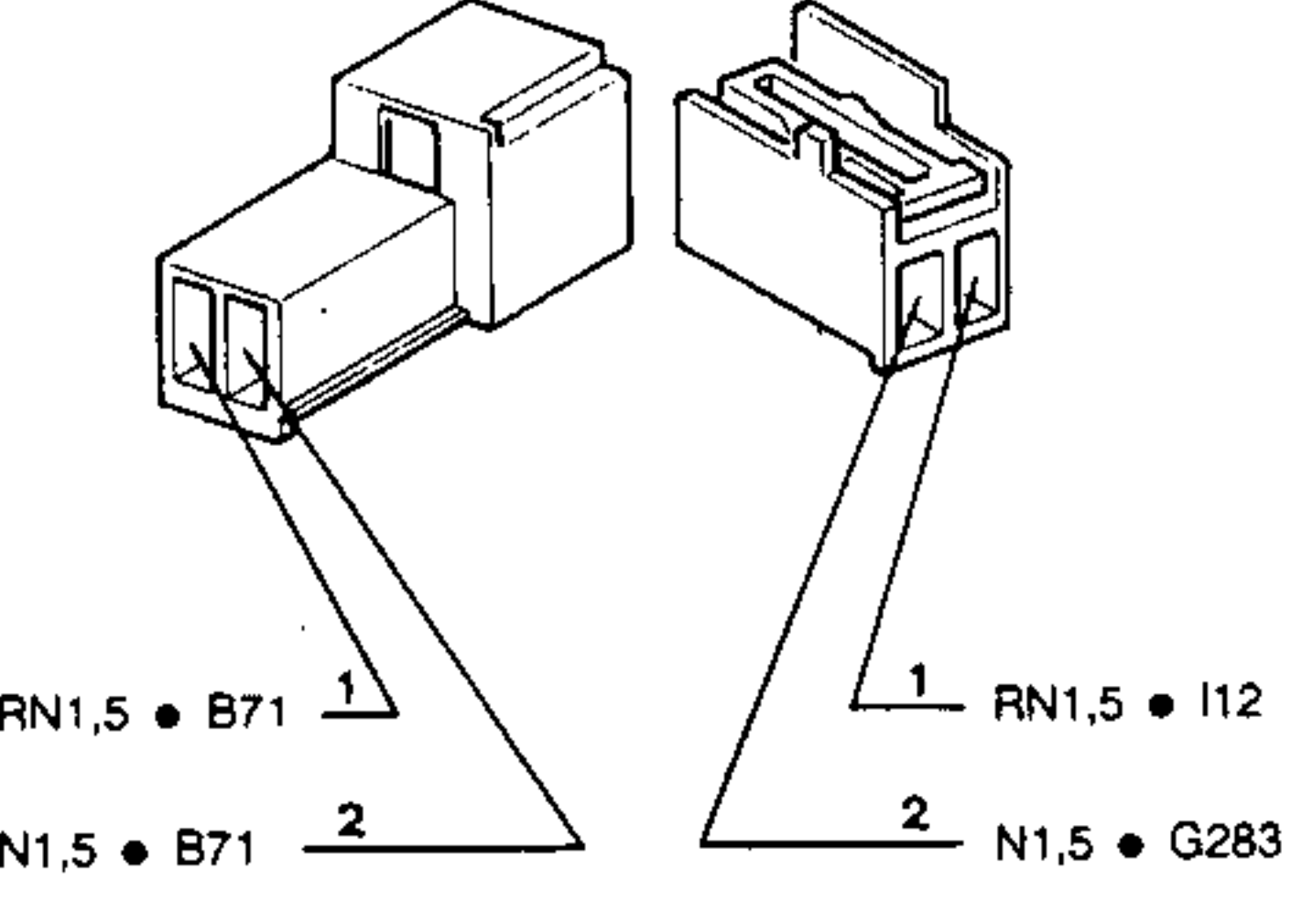
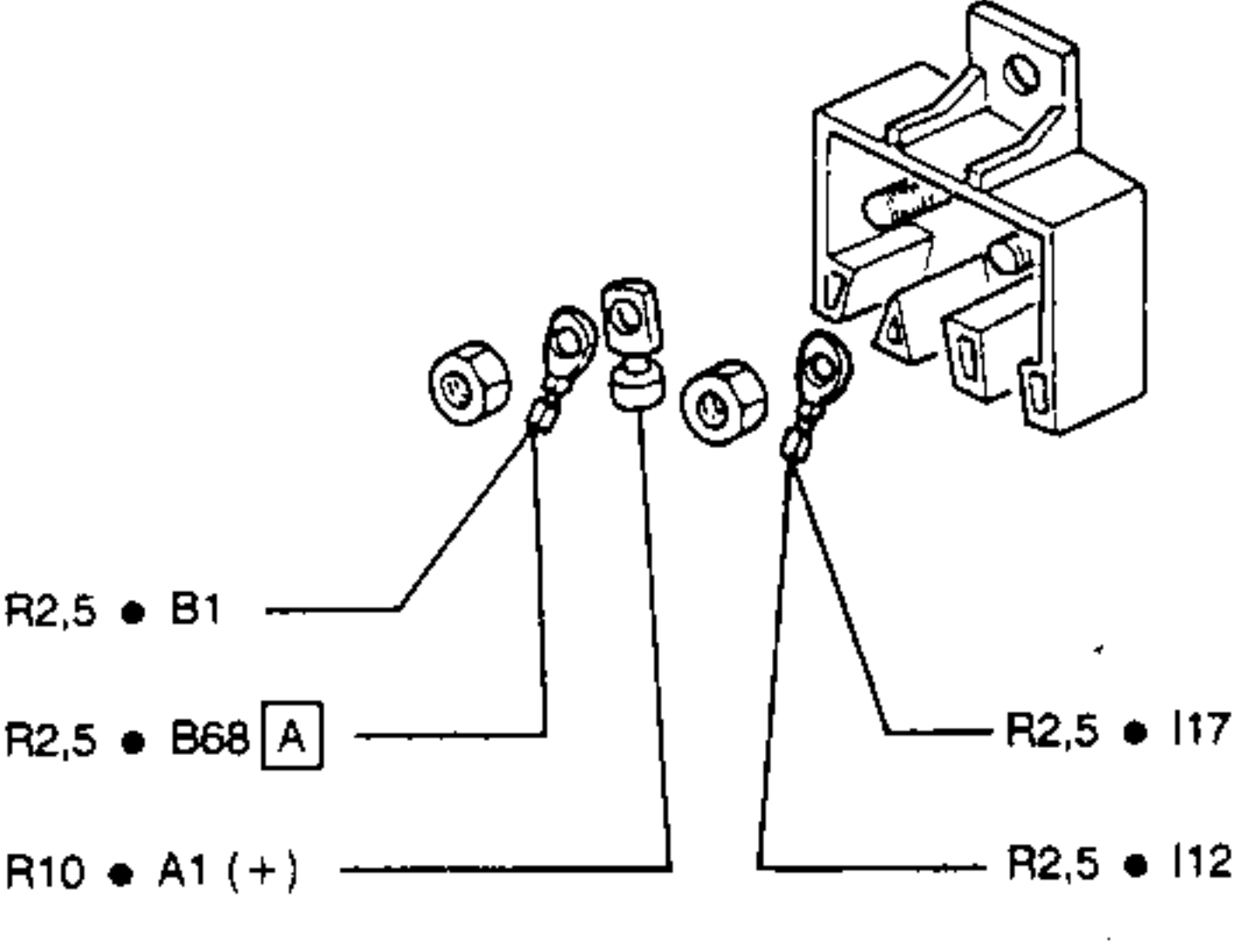


# ELECTRICAL SYSTEM

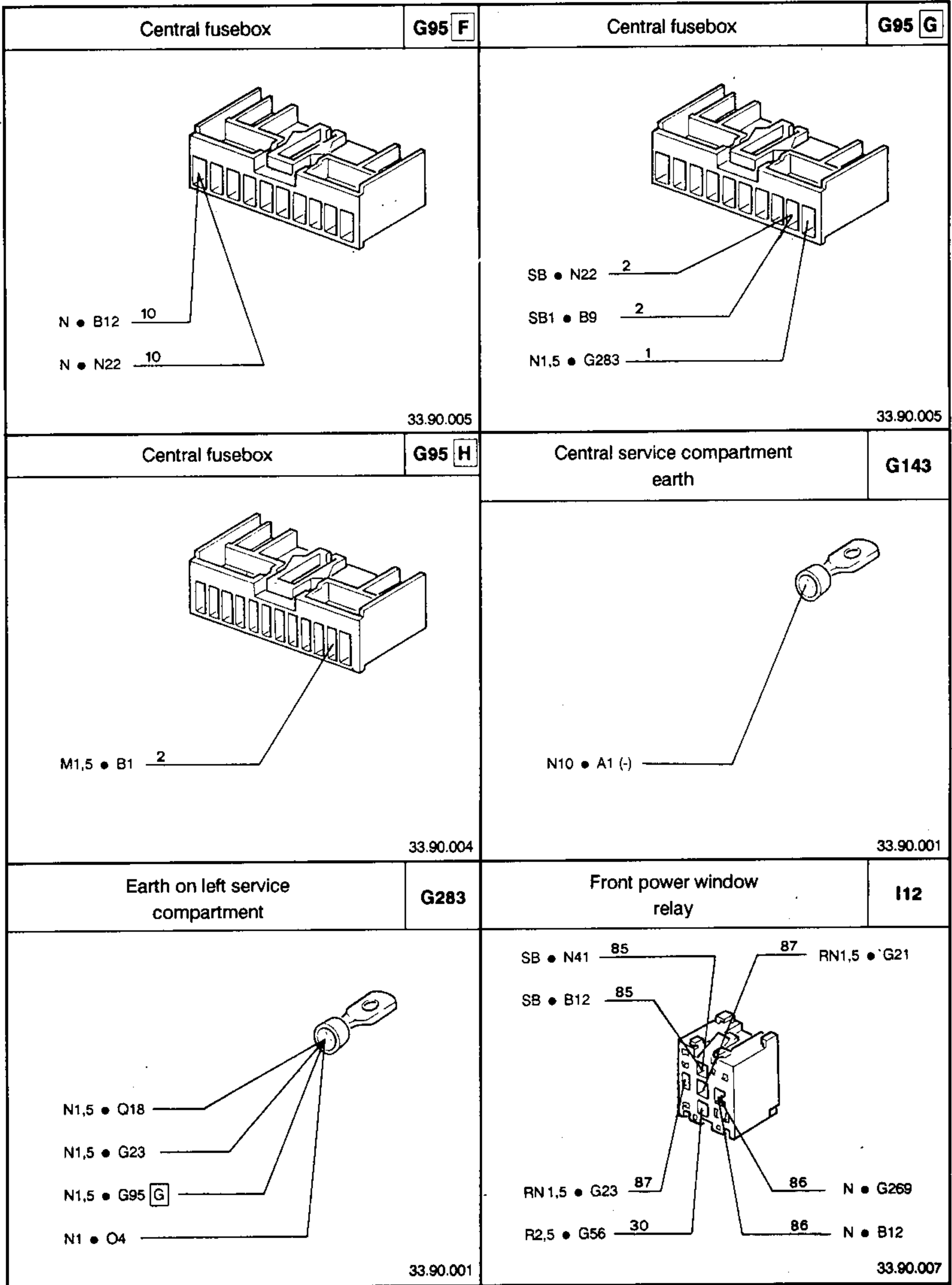
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
	33.90.001		33.90.002
Ignition switch	B1	Heated rear window control switch	B9
 <p>R2,5 • G56 3 VN2,5 • G99b 2 M1,5 • G95 [H] 2</p>		 <p>SB1 • B12 8 SB1 • G95 [G] 8</p>	
	33.90.028		33.90.008
Hazard warning lights control switch	B12	Front right power window control switch	B21
 <p>SB • I12 8 SB • B12 8 SB • B12 2 SB1 • B9 2 N • G95 [F] 9 N • I12 9</p>		 <p>A1,5 • G21 6 V1,5 • P14 4 VN1,5 • P14 3 AN 1,5 • G21 1 RN1,5 • G21 2</p>	
	33.90.008		33.90.025

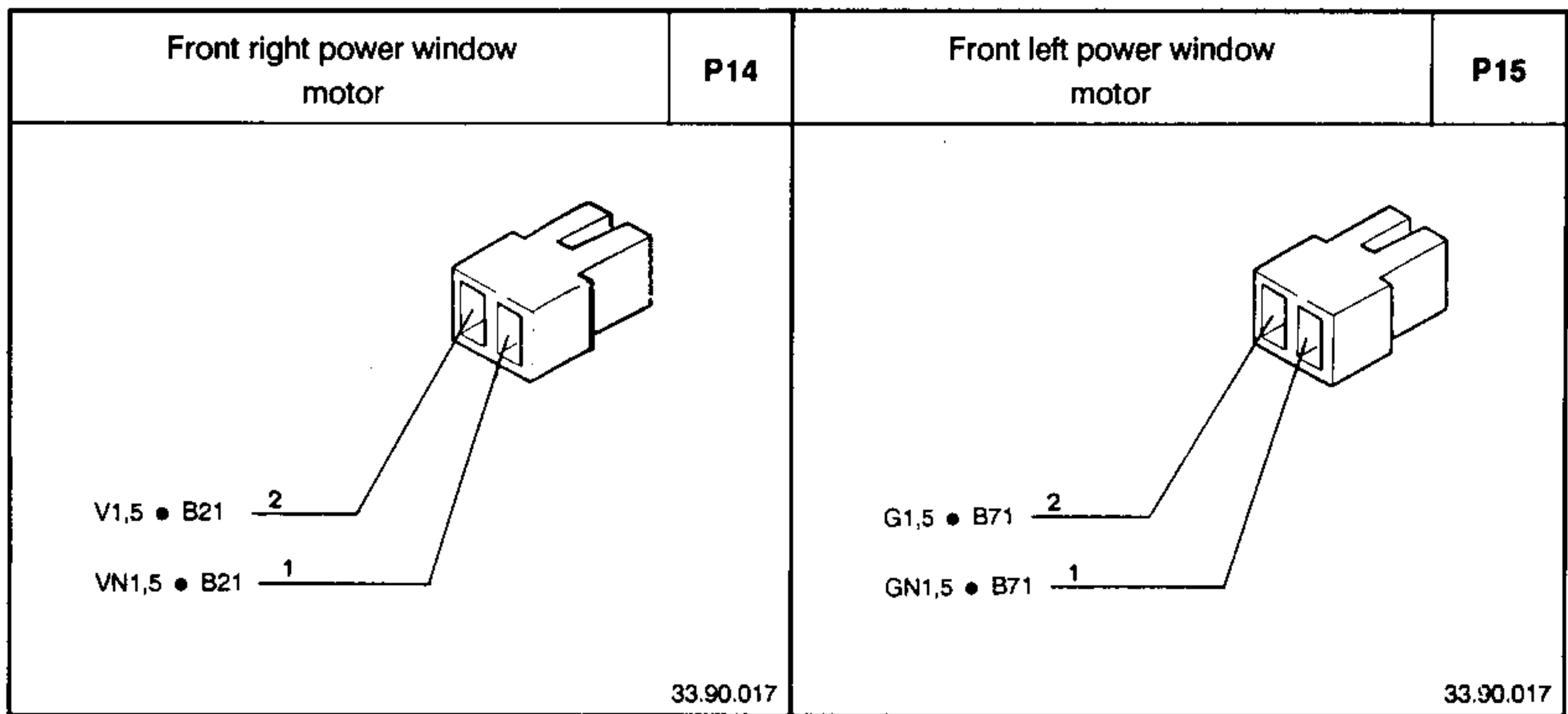
# ELECTRICAL SYSTEM

<p style="text-align: center;"><b>Front left and right power window double control switch</b></p>	<b>B71</b>	<p style="text-align: center;"><b>Connector for front right door wiring</b></p>	<b>G21</b>
			
33.90.025		33.90.019	
<p style="text-align: center;"><b>Connector for front right door wiring</b></p>	<b>G21</b>	<p style="text-align: center;"><b>Connector for front left door wiring</b></p>	<b>G23</b>
			
33.90.019		33.90.019	
<p style="text-align: center;"><b>Connector fro front left door wiring</b></p>	<b>G23</b>	<p style="text-align: center;"><b>Branch terminal board</b></p>	<b>G56</b>
			
33.90.019		33.90.075	

# ELECTRICAL SYSTEM



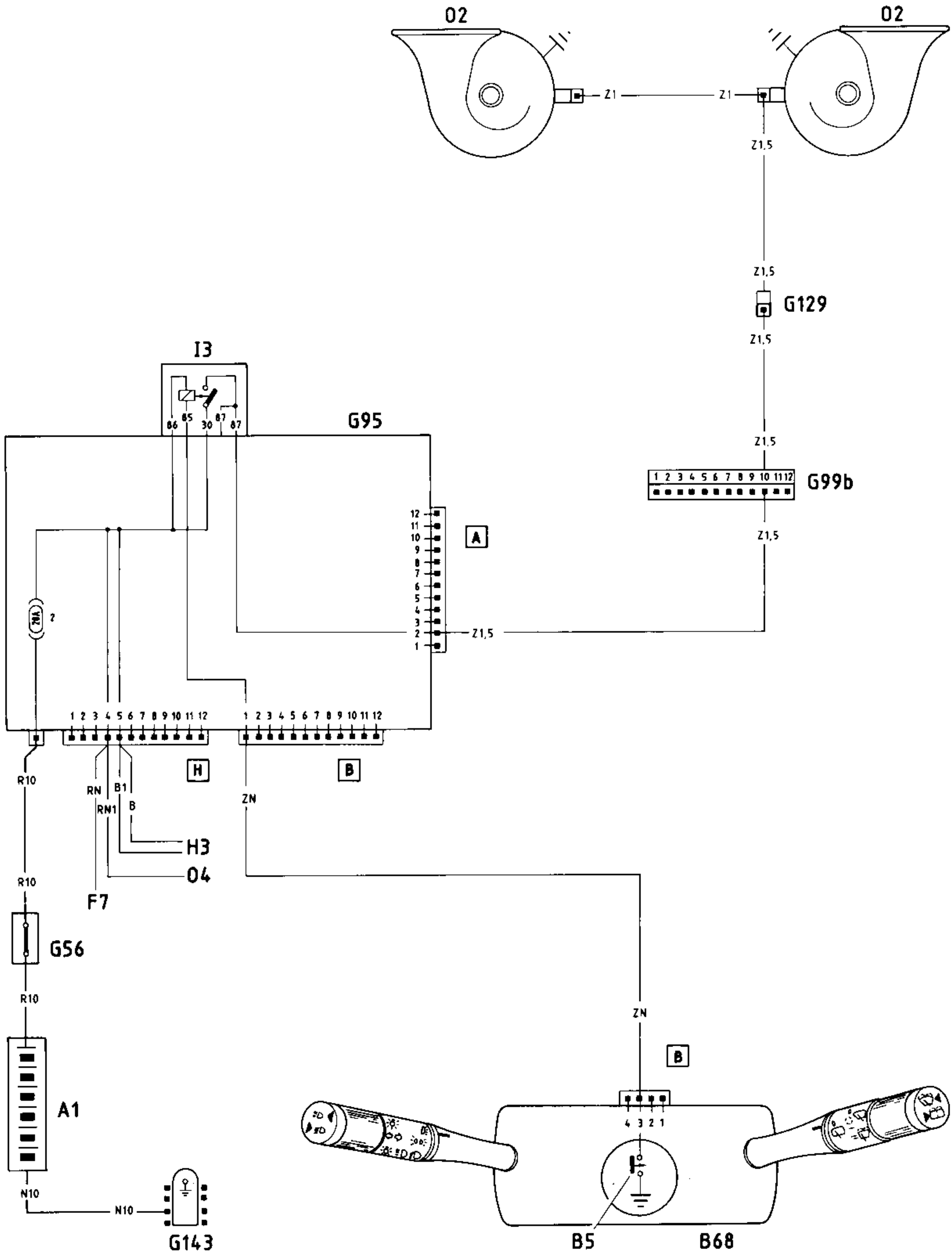
ELECTRICAL SYSTEM



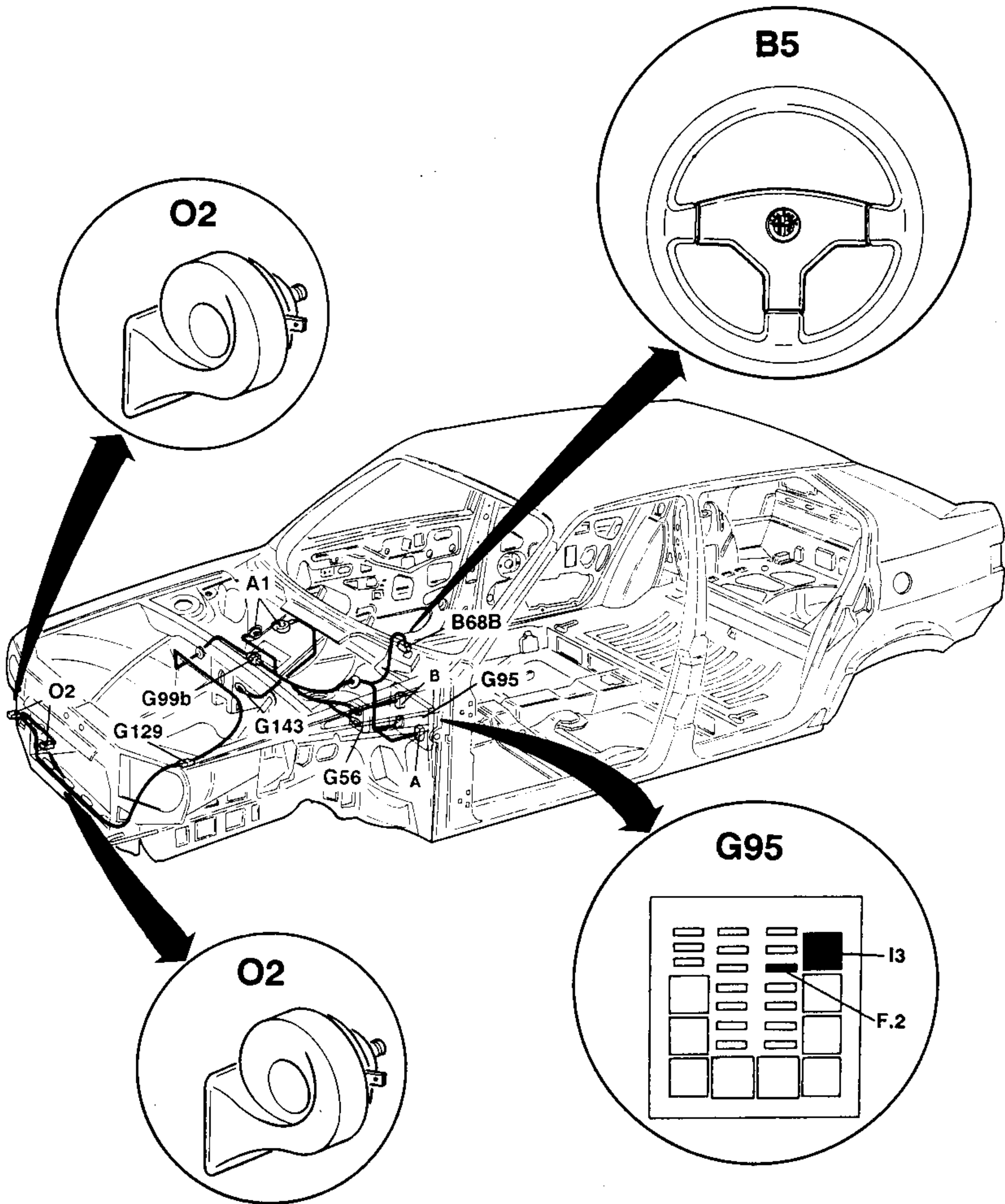
# ELECTRICAL SYSTEM

## HORNS

### Wiring diagram

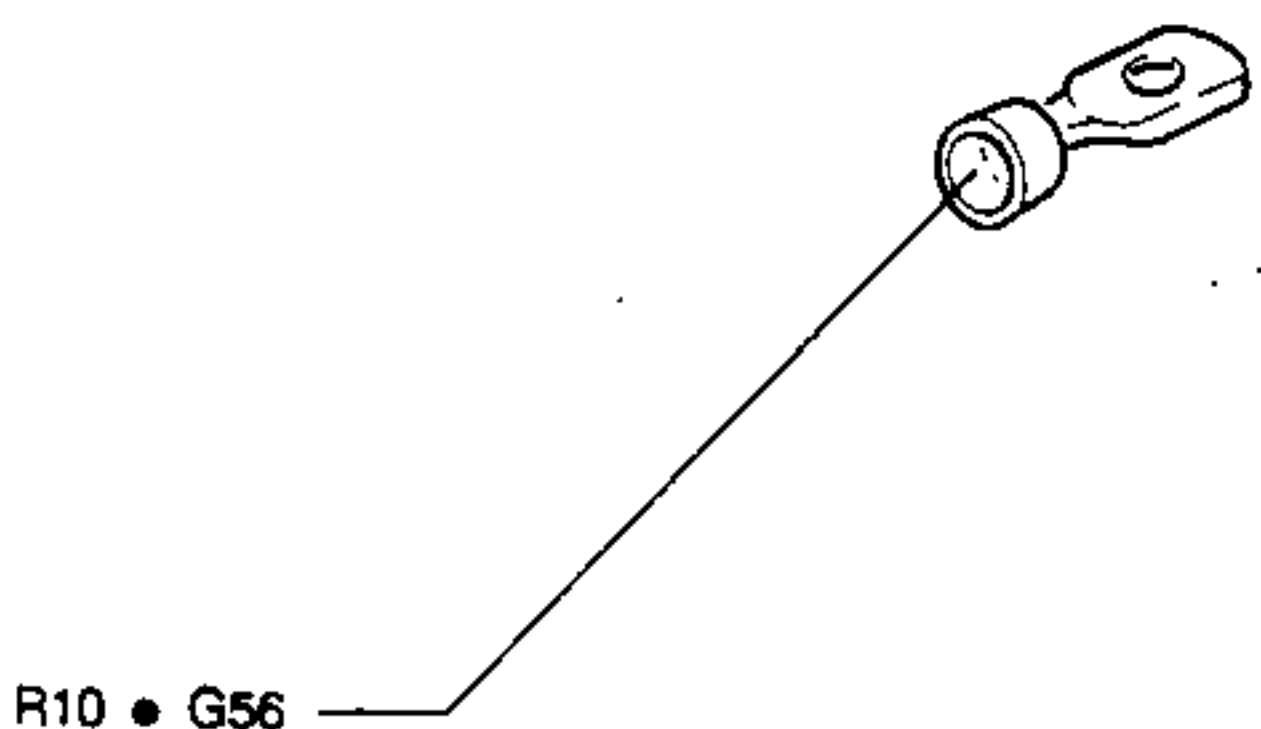
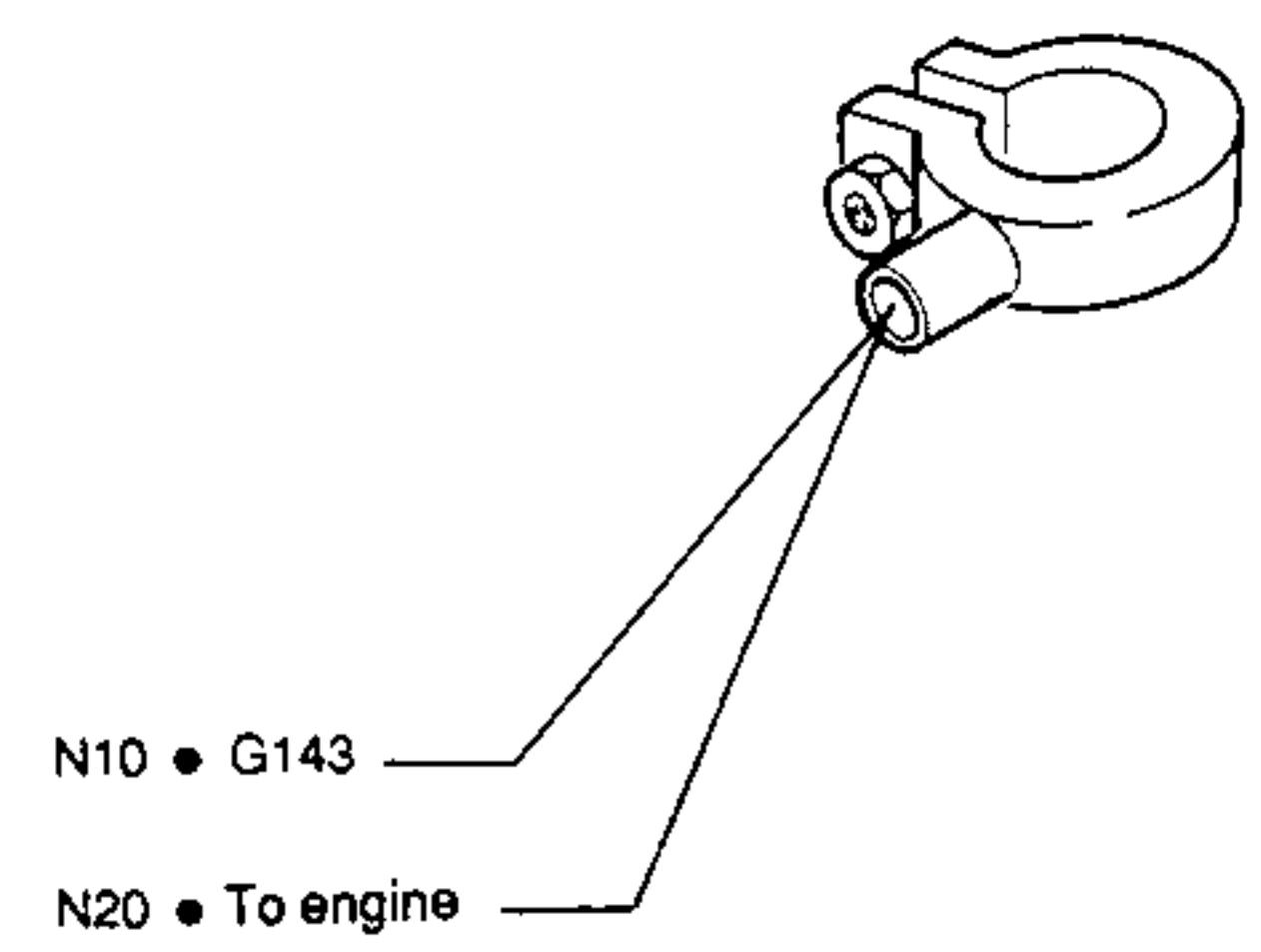
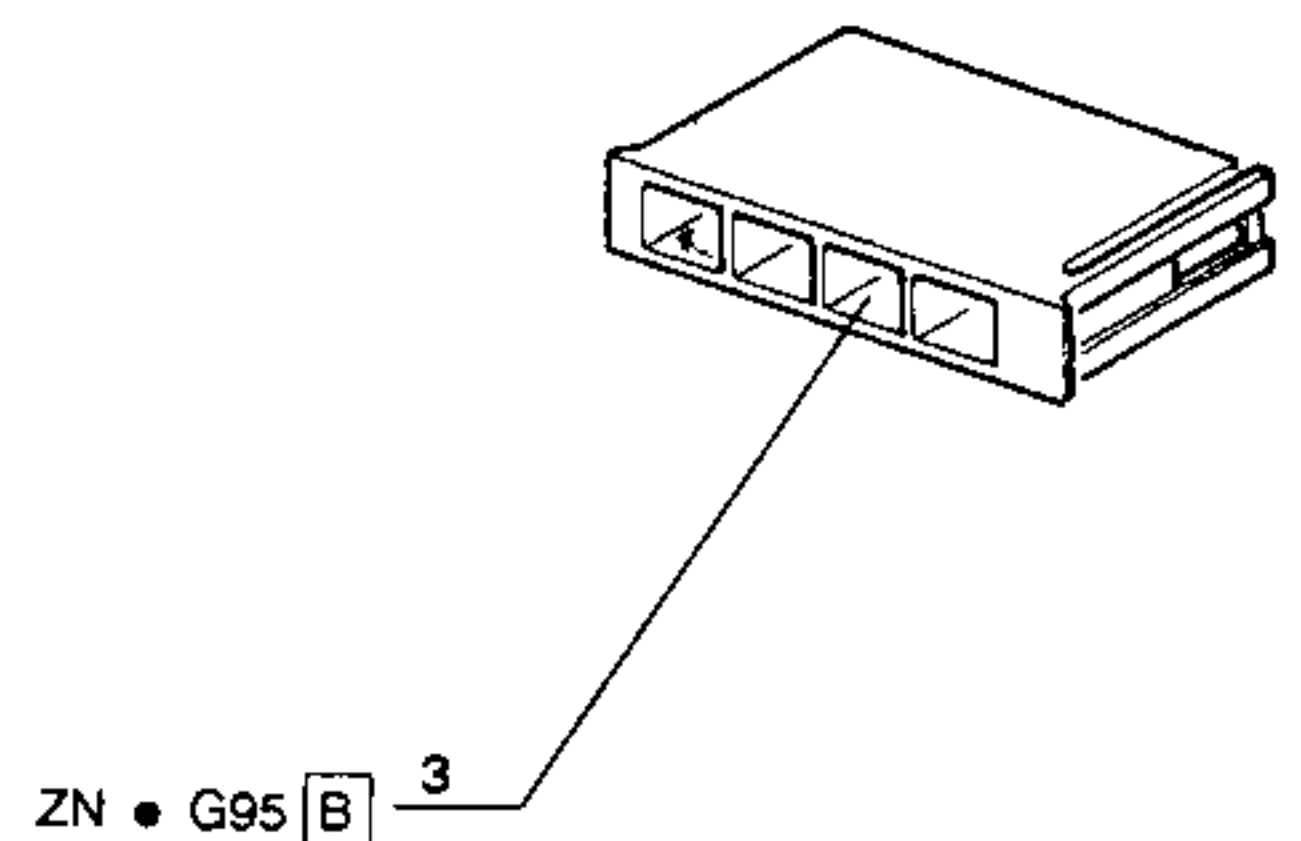
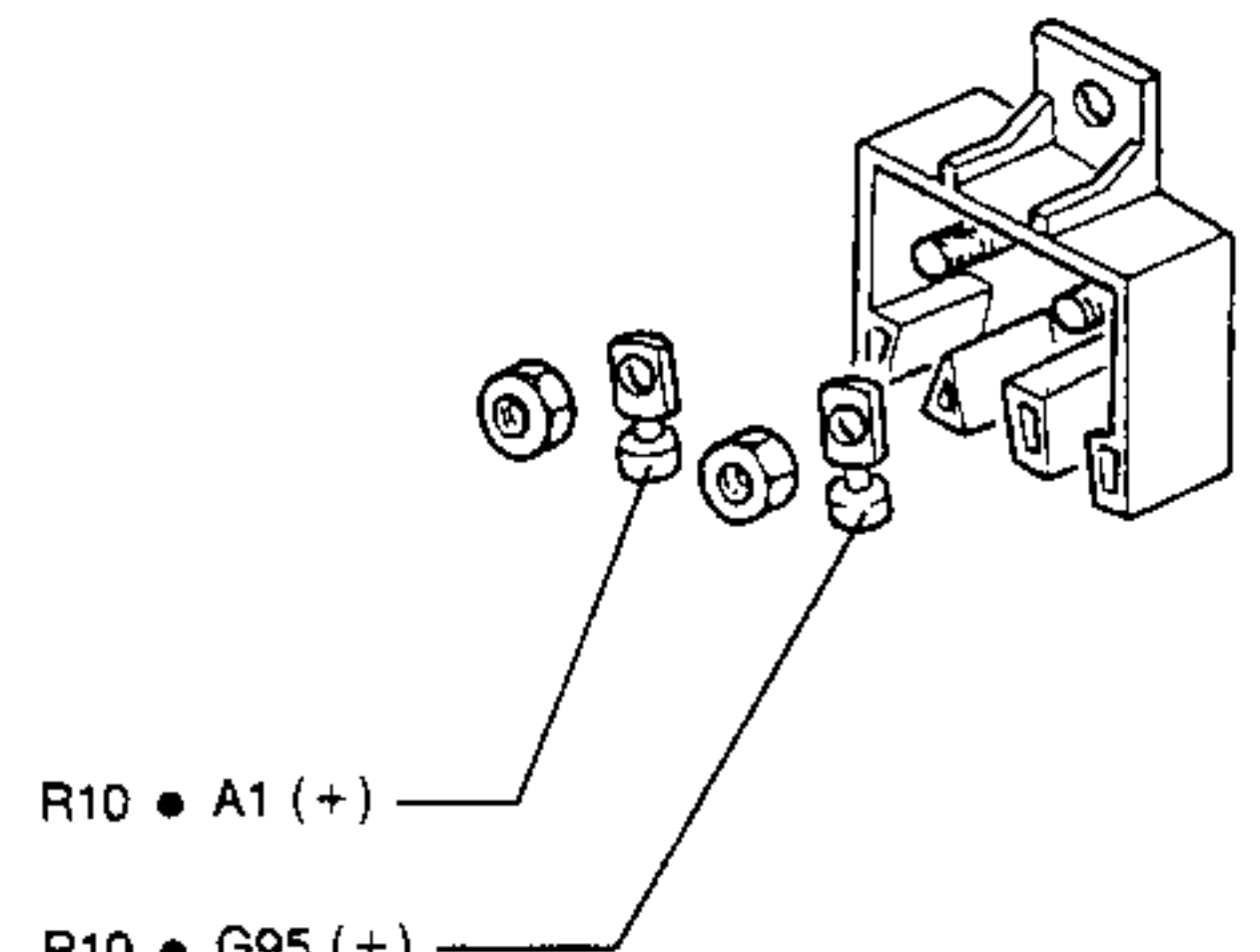
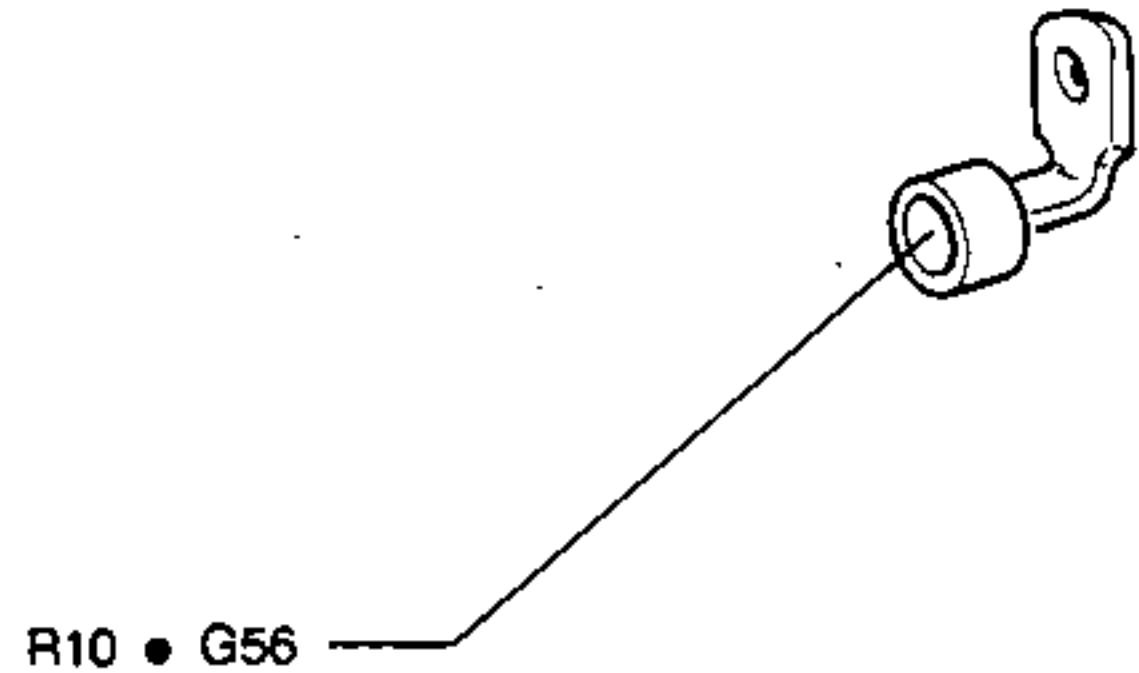
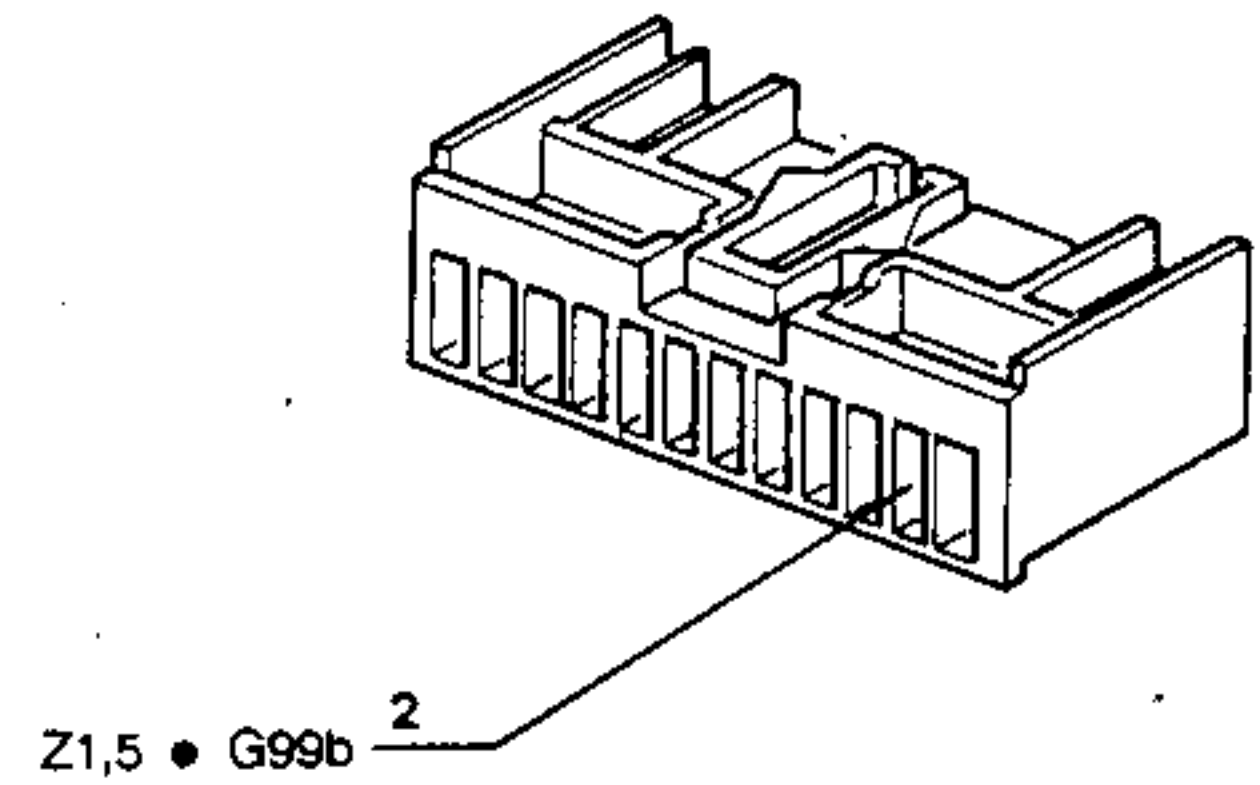


Wiring



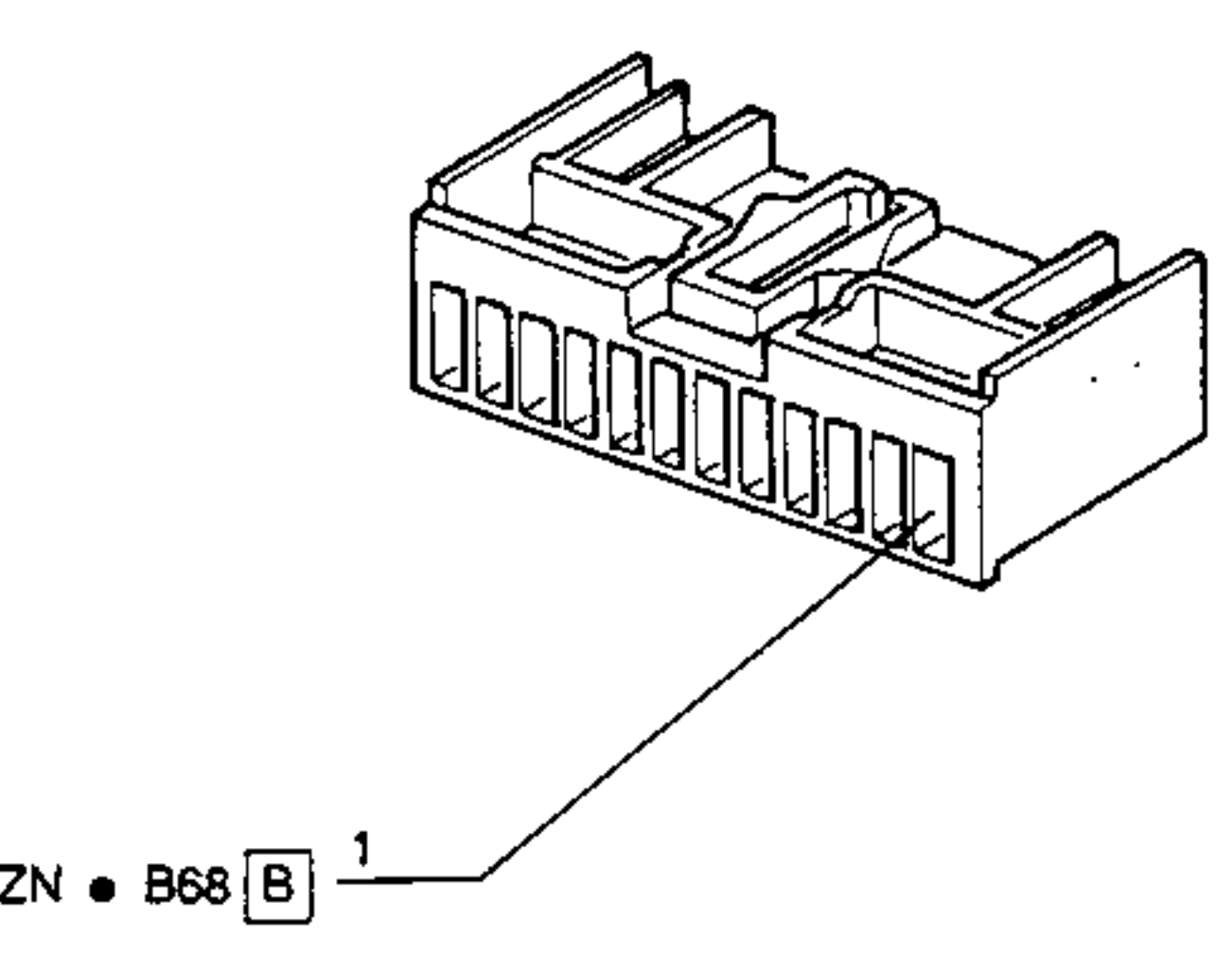
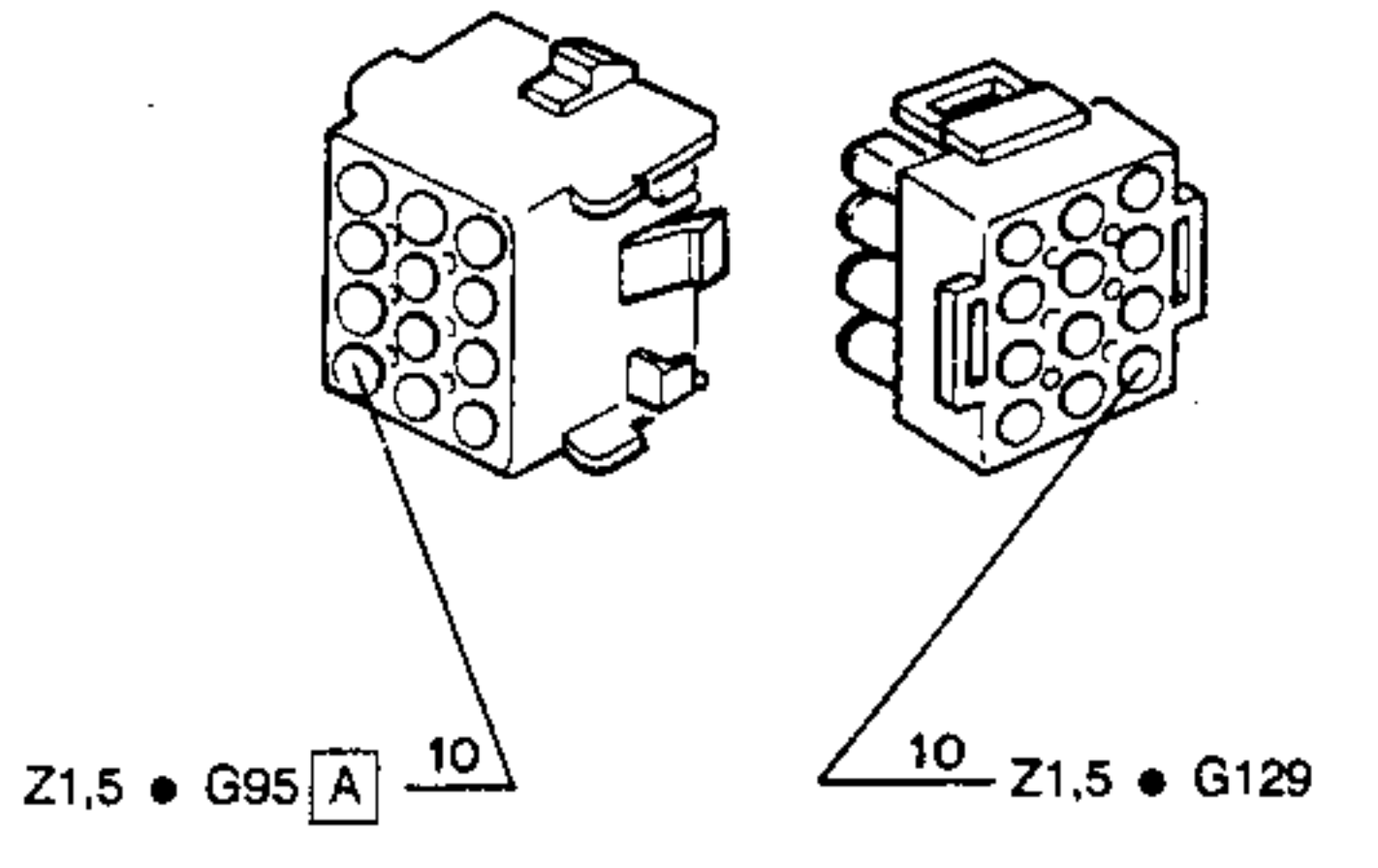
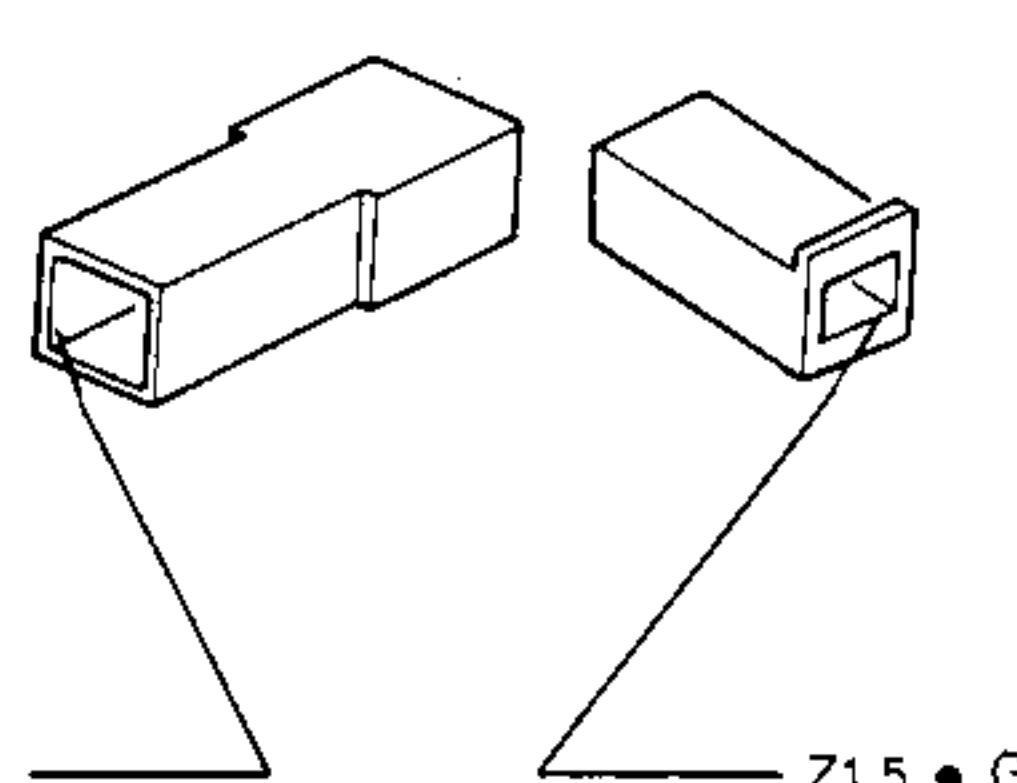
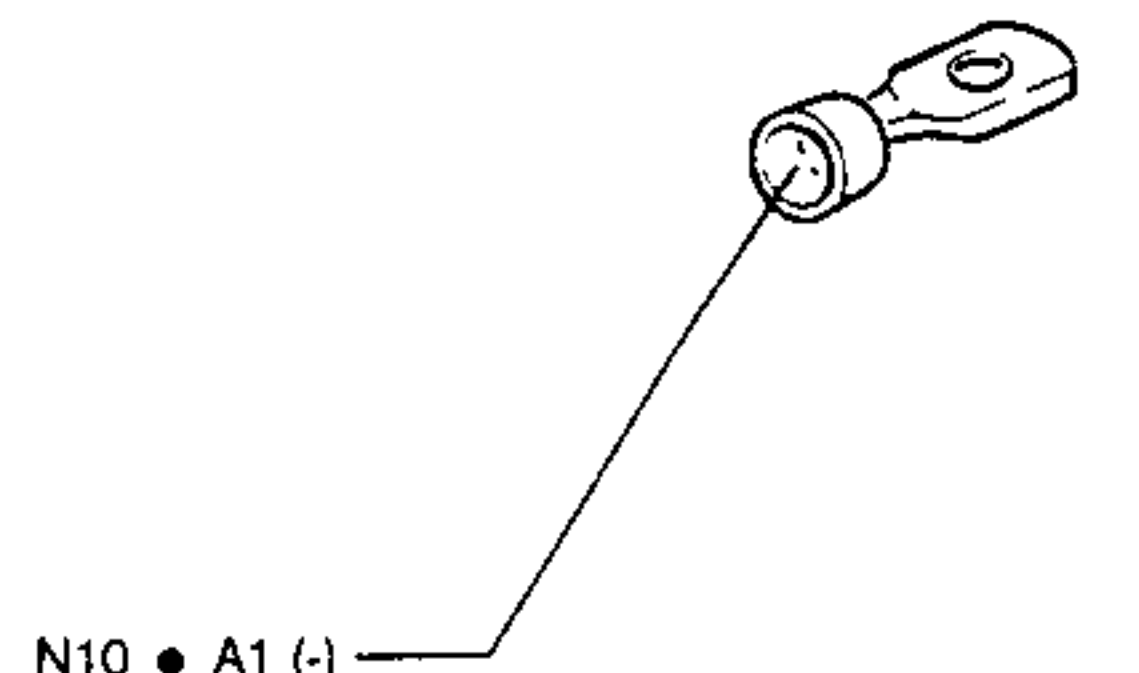
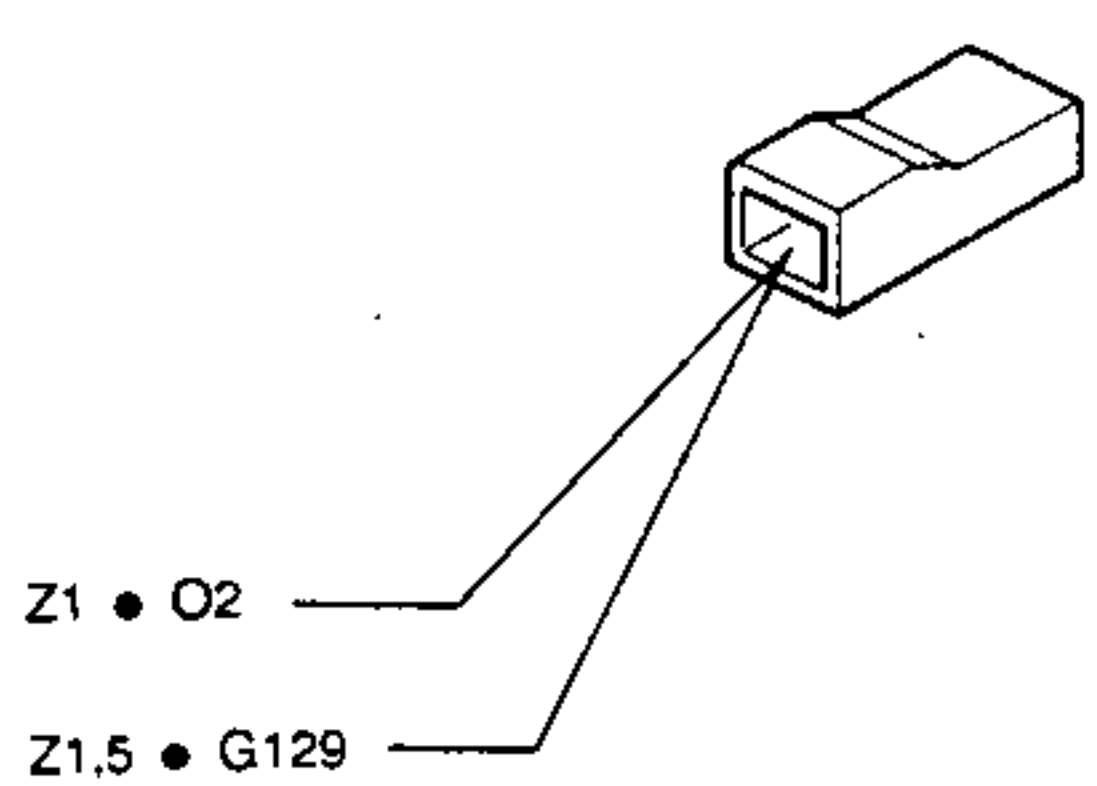
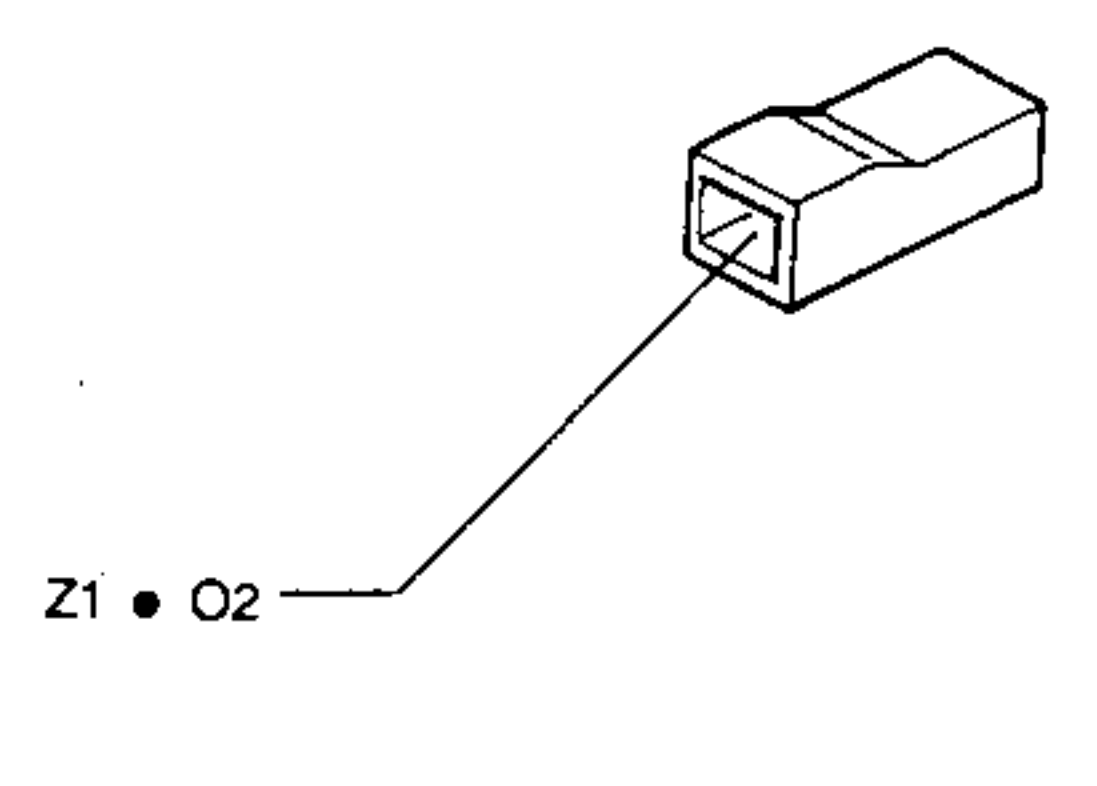
# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Turn signal switch unit	B68 B	Branch terminal board	G56
 <p>ZN • G95 B 3</p>	33.90.027	 <p>R10 • A1 (+) R10 • G95 (+)</p>	33.90.009
Central fusebox (+)	G95	Central fusebox	G95 A
 <p>R10 • G56</p>	33.90.006	 <p>Z1,5 • G99b 2</p>	33.90.004



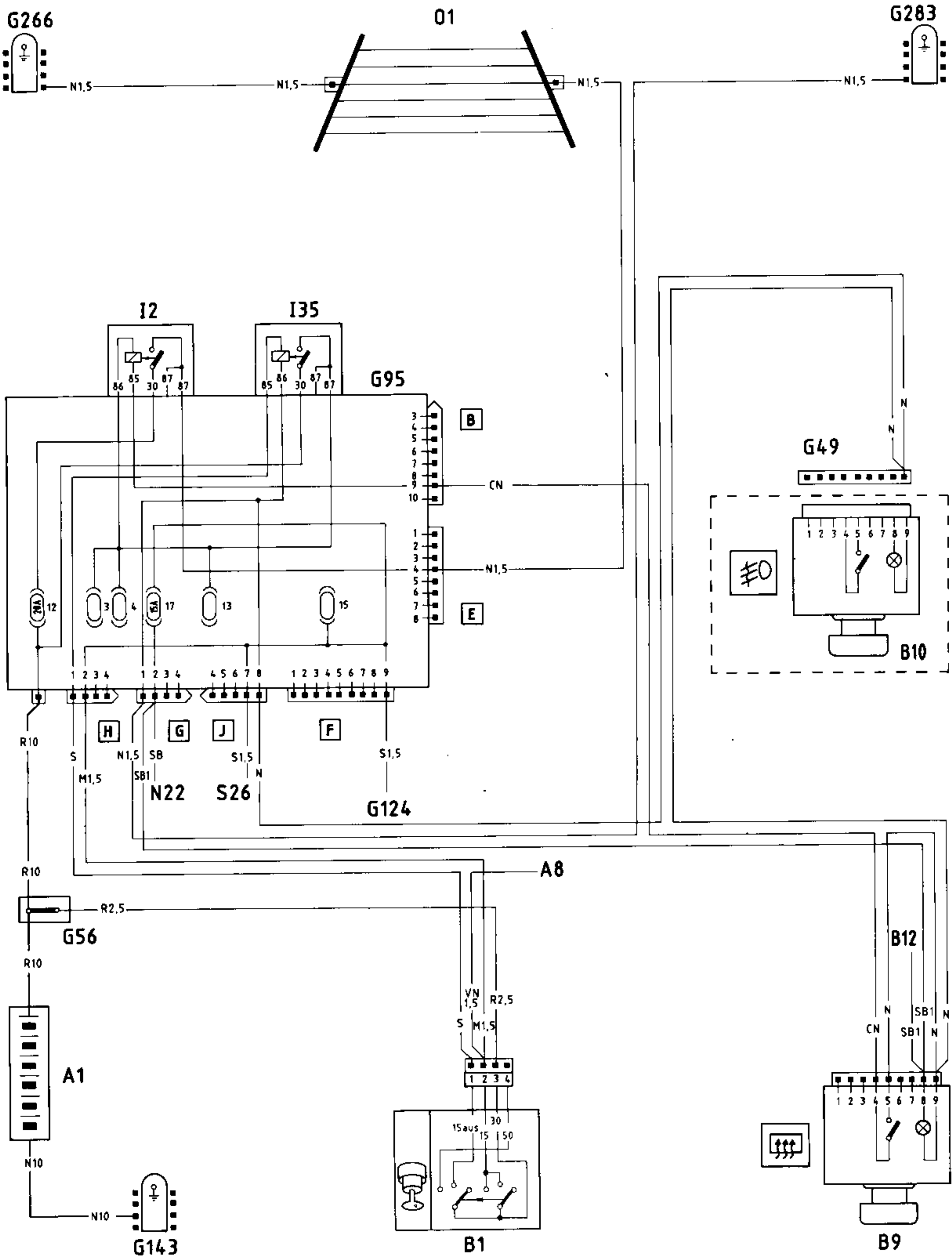
# ELECTRICAL SYSTEM

<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 B</b></p>	<p><b>Connector for engine dashboard</b></p> <p style="text-align: right;"><b>G99b</b></p>
 <p style="text-align: center;">33.90.004</p>	 <p style="text-align: center;">33.90.016</p>
<p><b>Two-tone hooter - horns, left side engine compartment connection</b></p> <p style="text-align: right;"><b>G129</b></p>	<p><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>
 <p style="text-align: center;">33.90.090</p>	 <p style="text-align: center;">33.90.001</p>
<p><b>Horn (right)</b></p> <p style="text-align: right;"><b>O2</b></p>	<p><b>Horn (left)</b></p> <p style="text-align: right;"><b>O2</b></p>
 <p style="text-align: center;">33.90.015</p>	 <p style="text-align: center;">33.90.015</p>

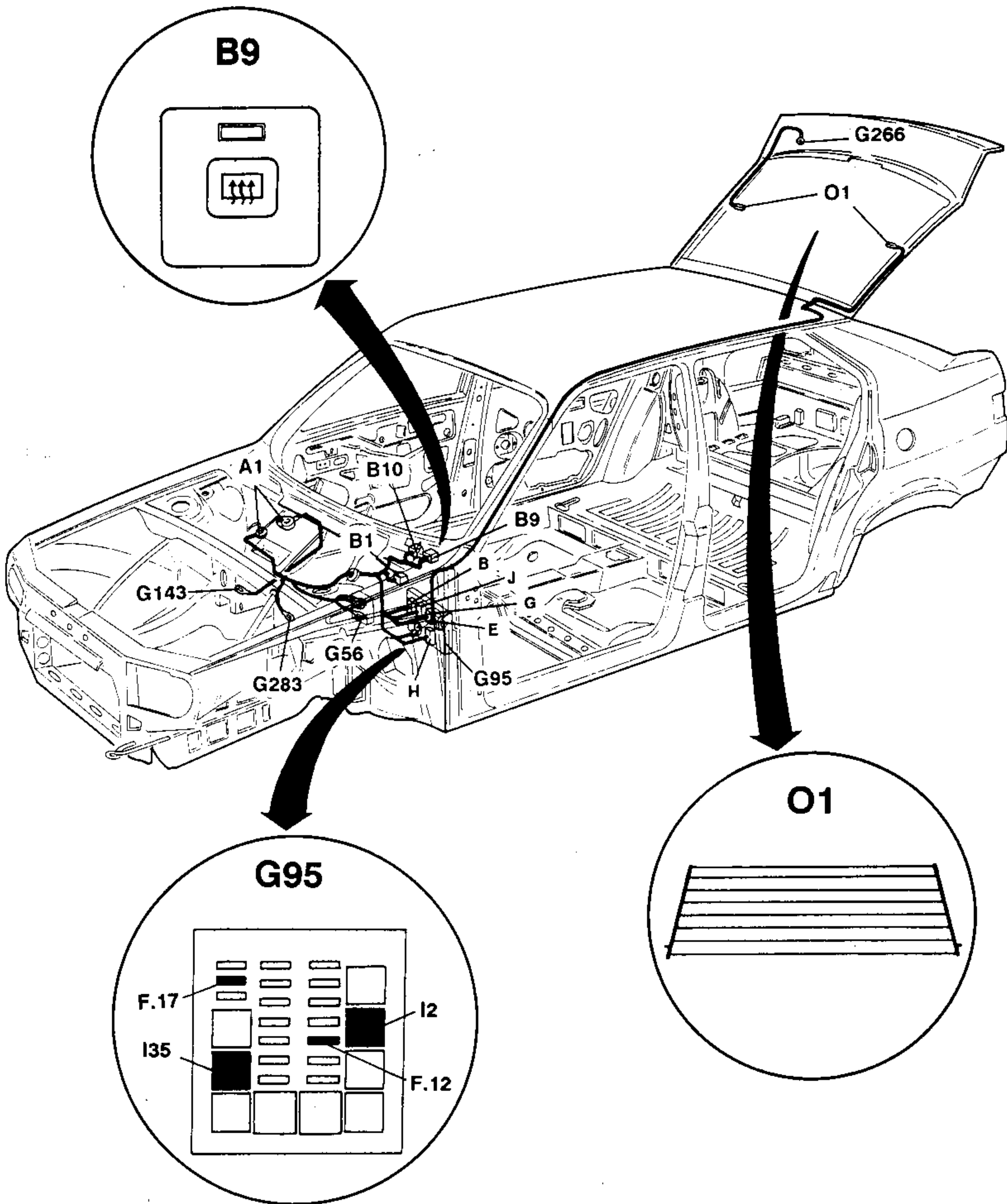
# ELECTRICAL SYSTEM

## HEATED REAR WINDOW

### Wiring diagram

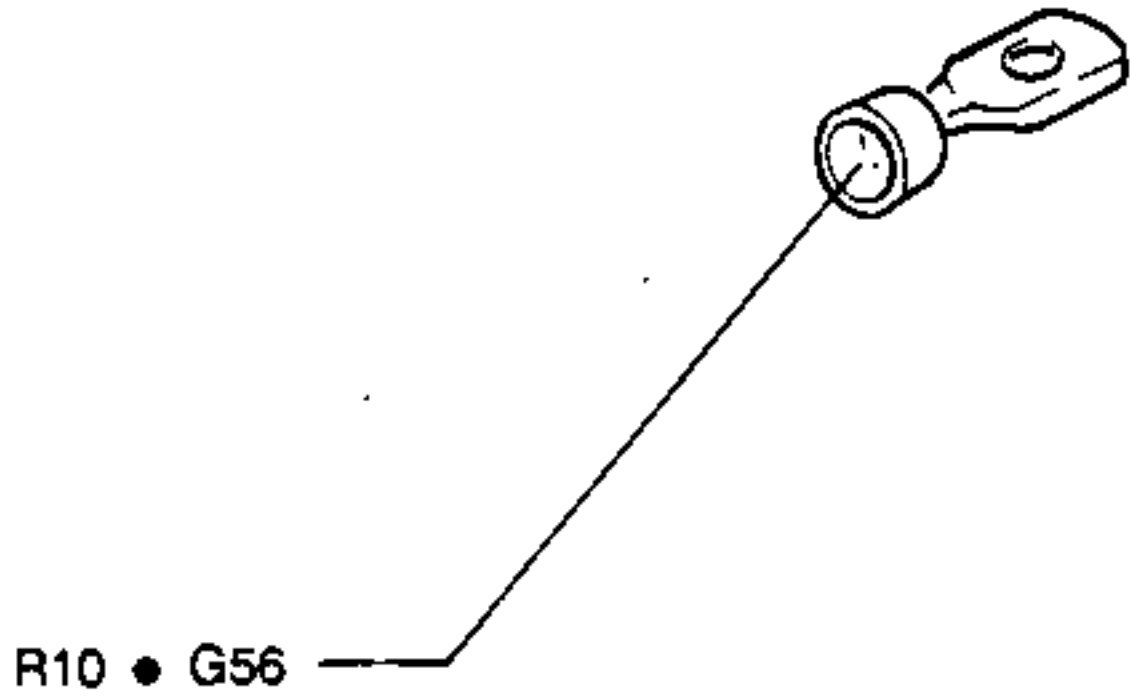
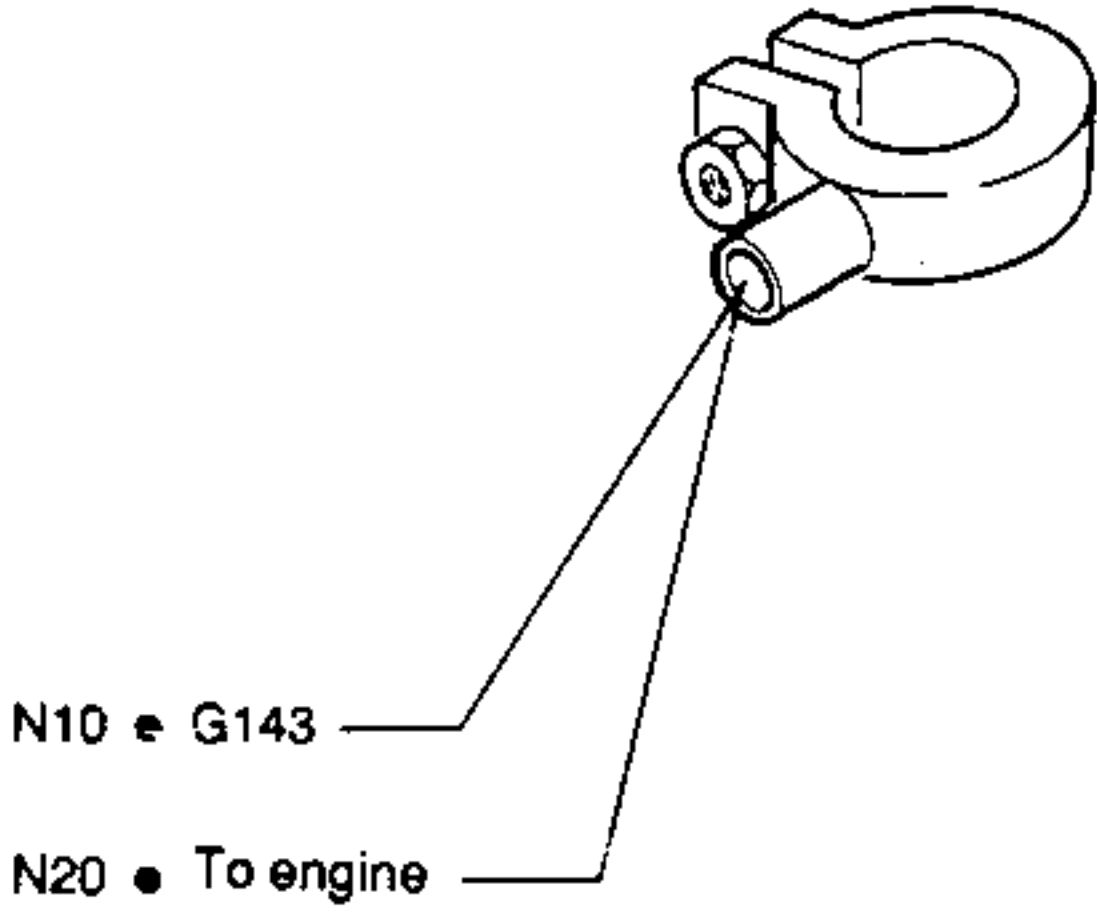
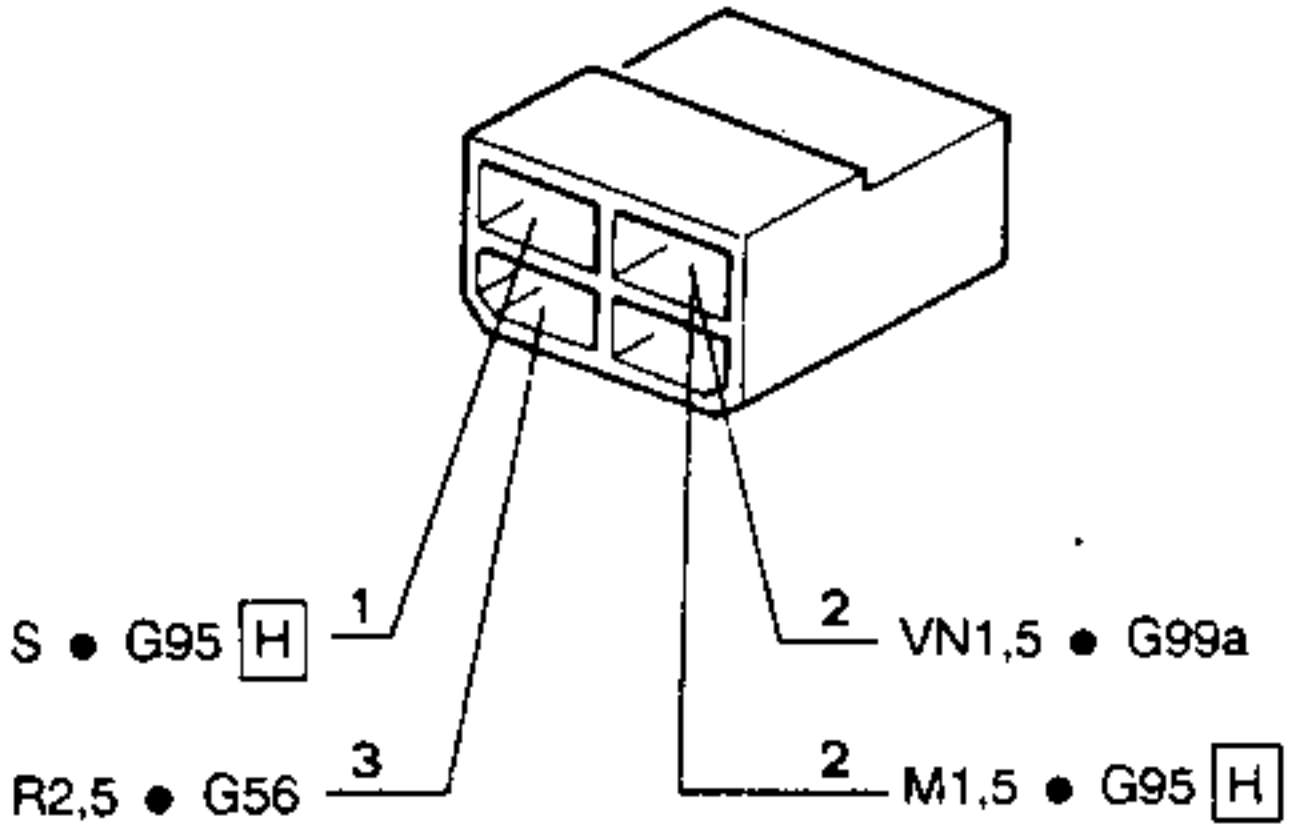
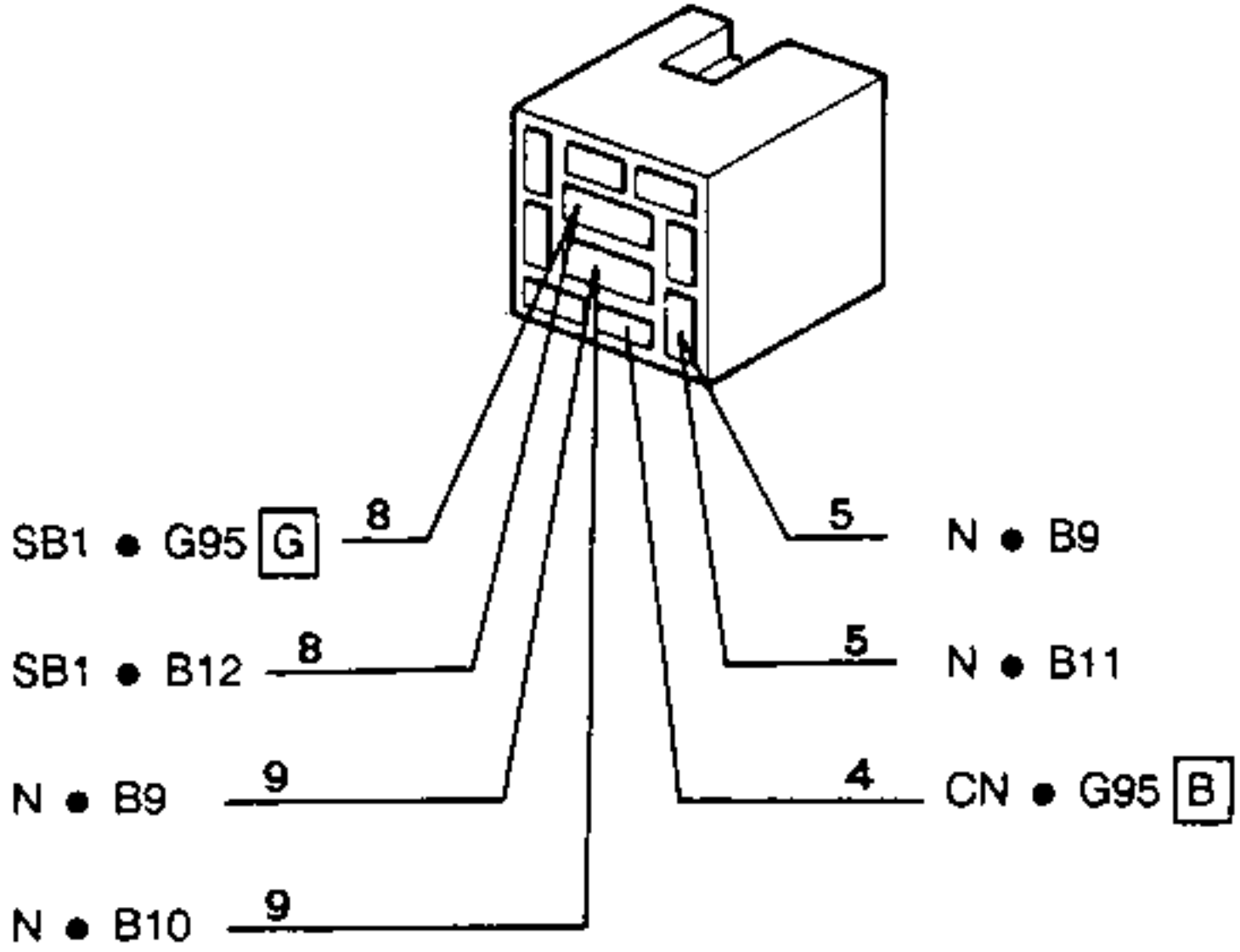
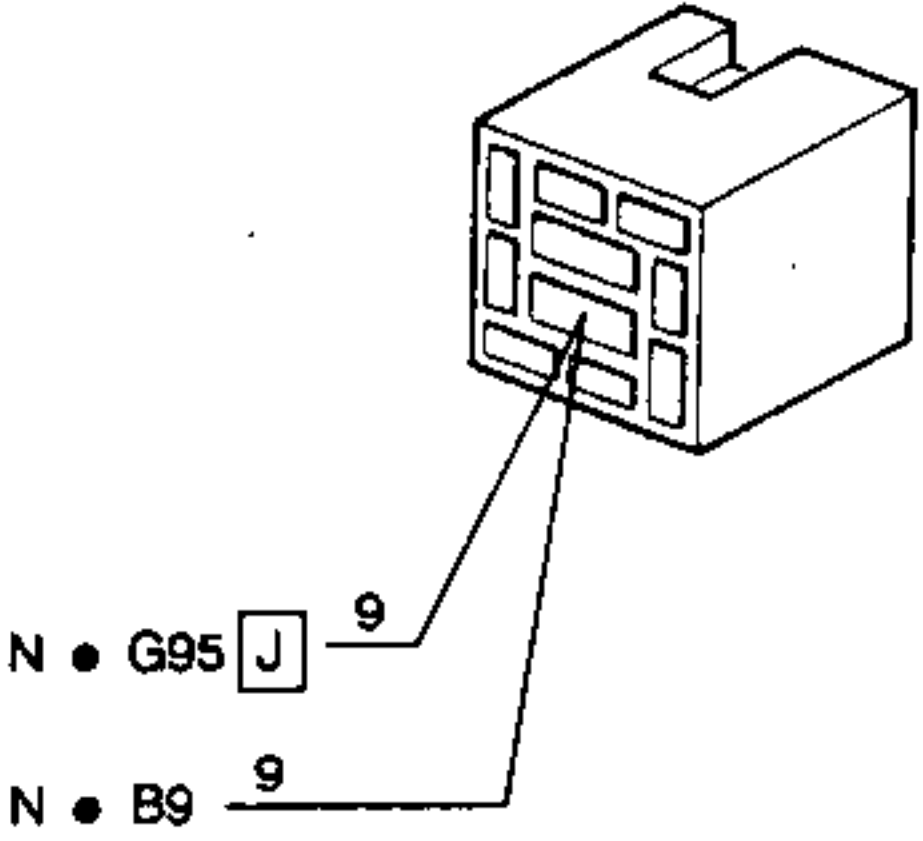
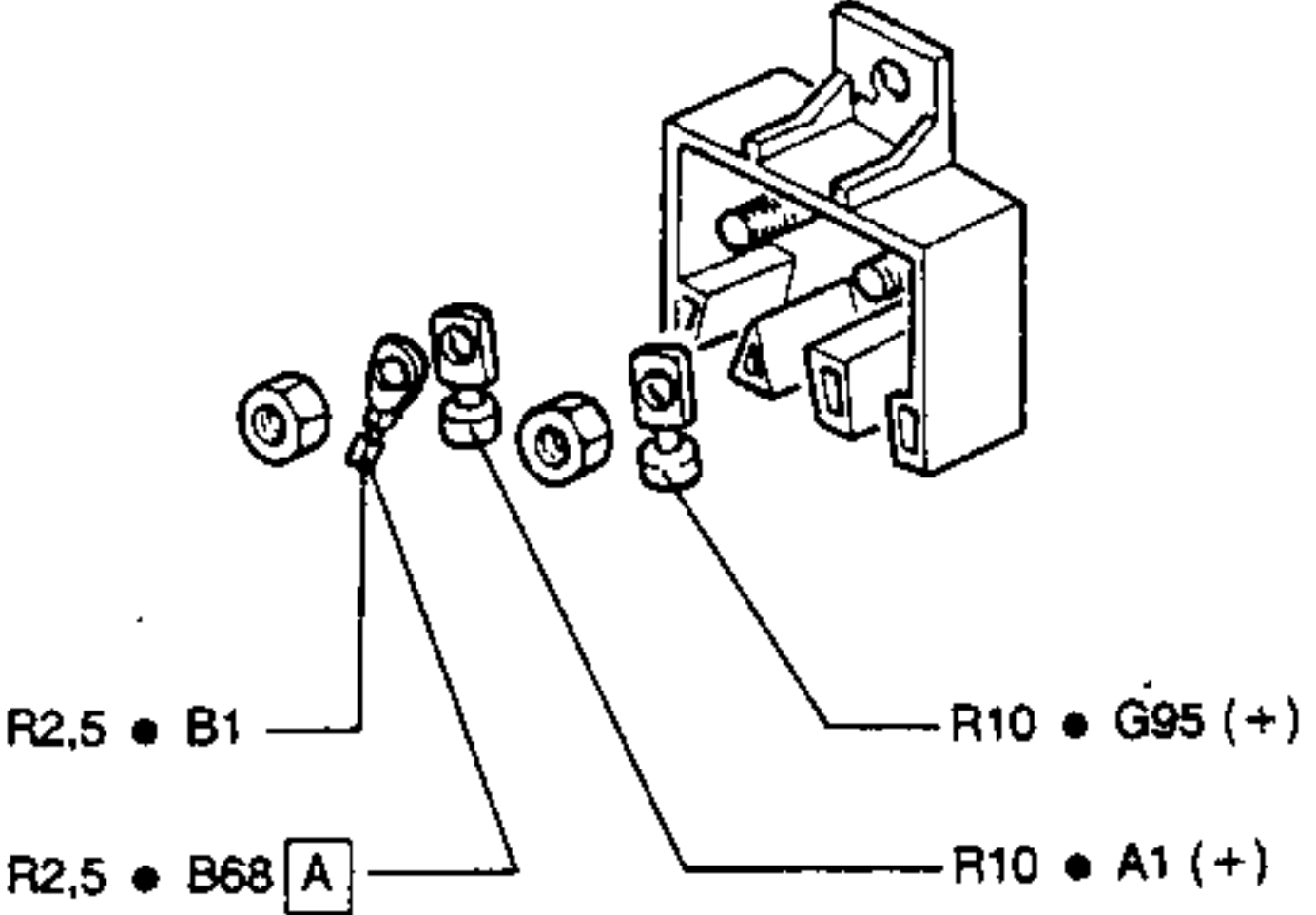


Wiring

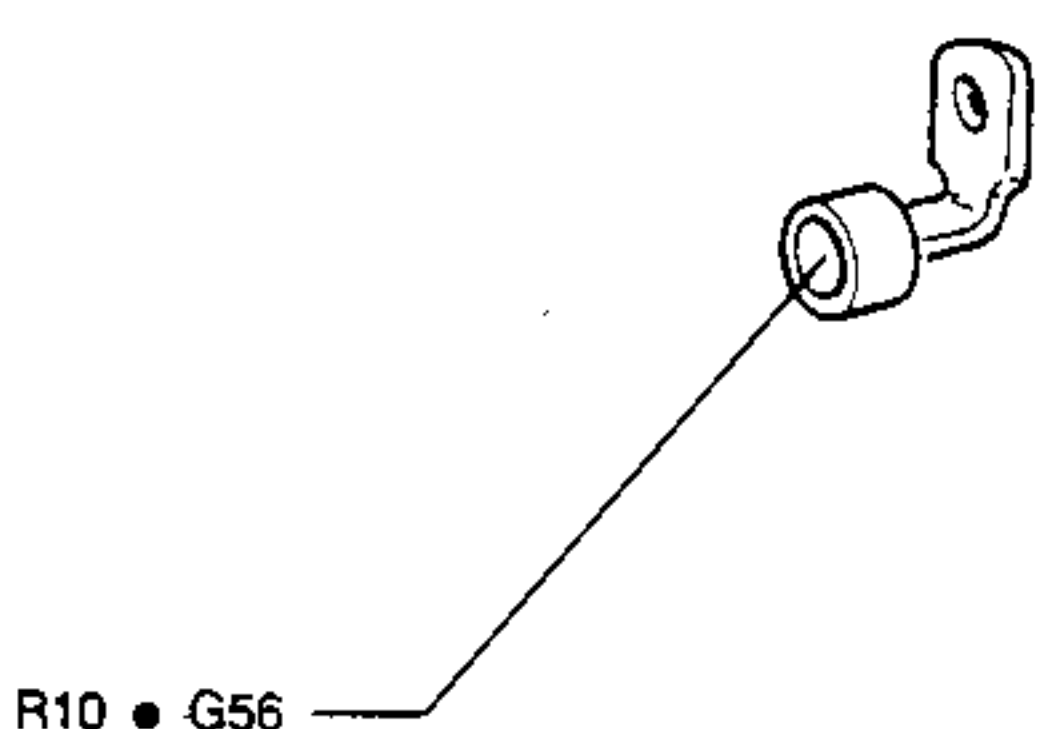
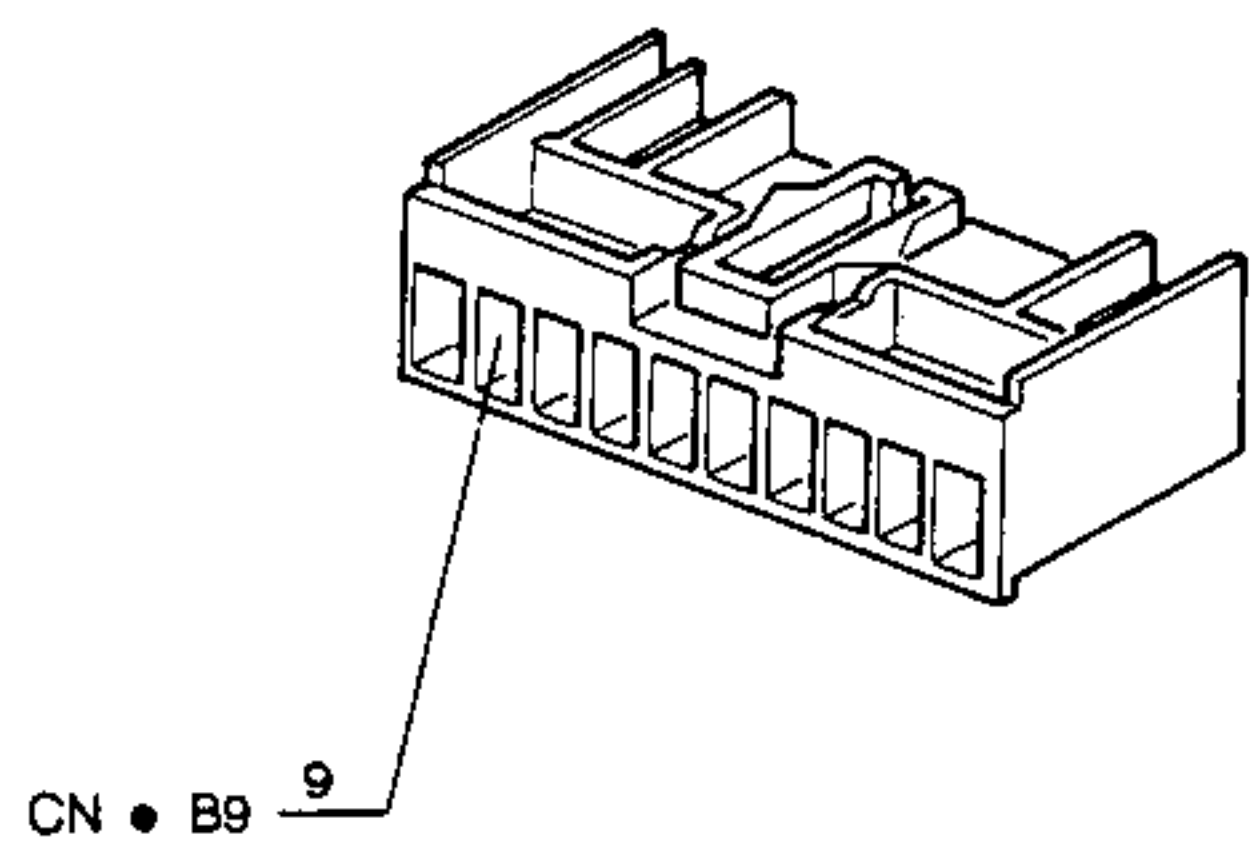
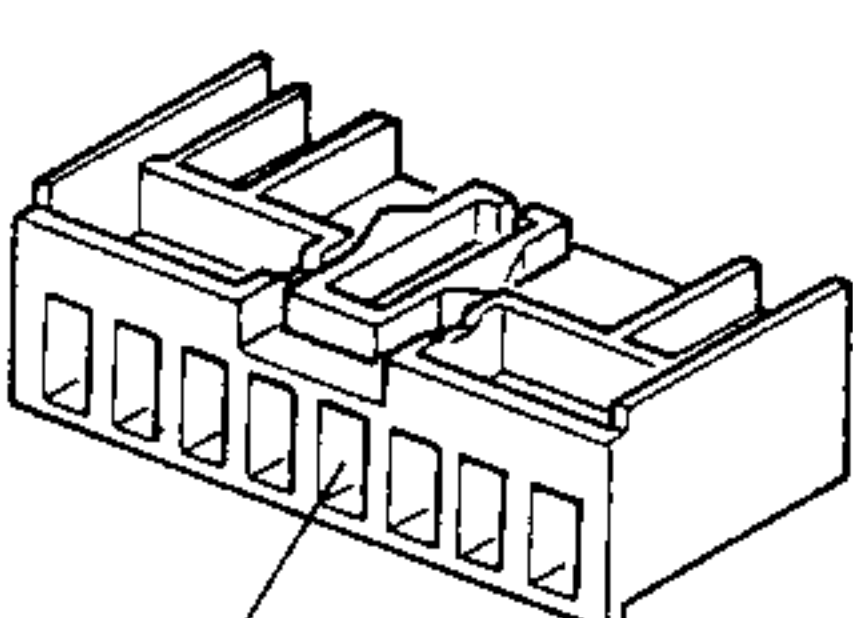
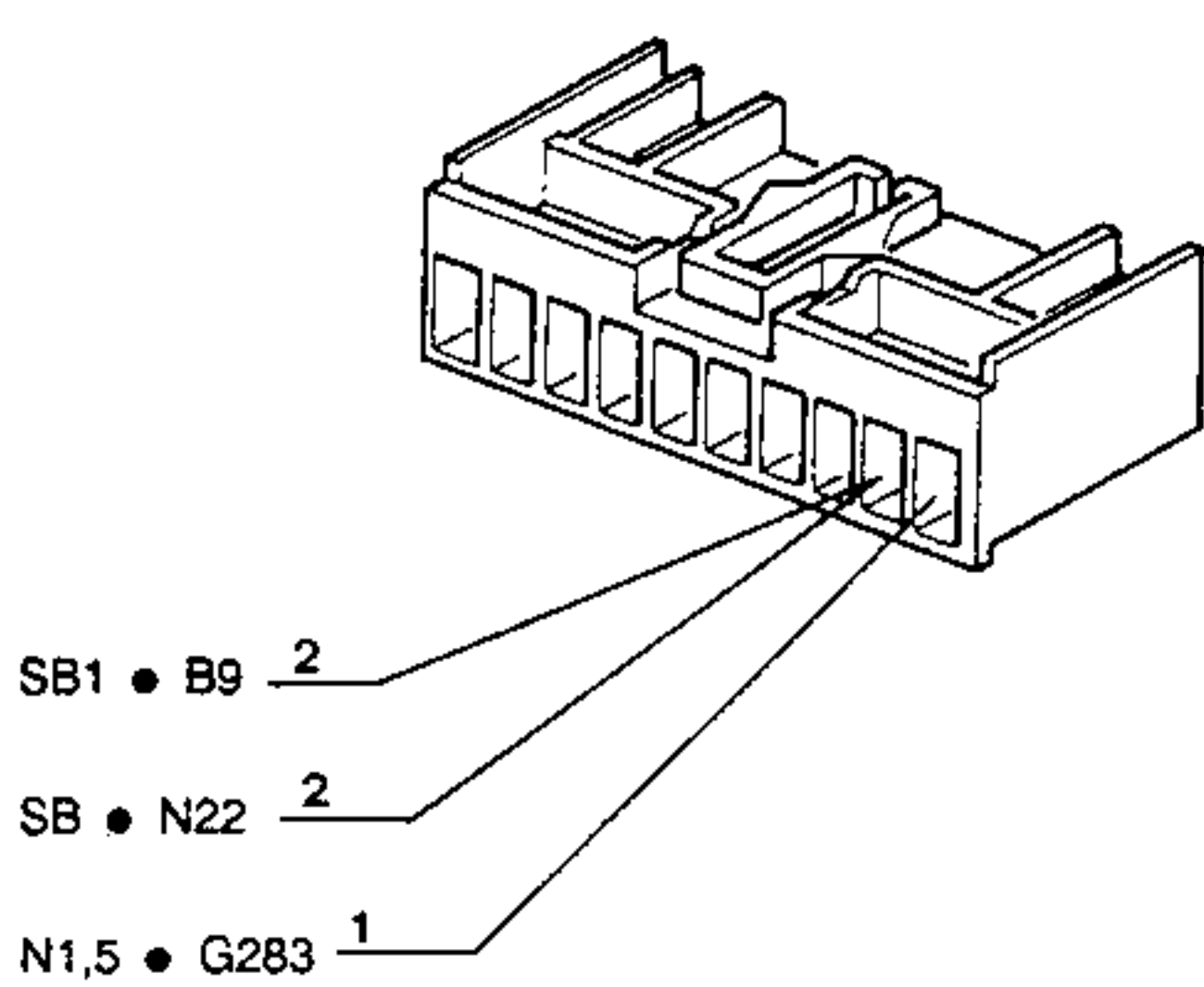
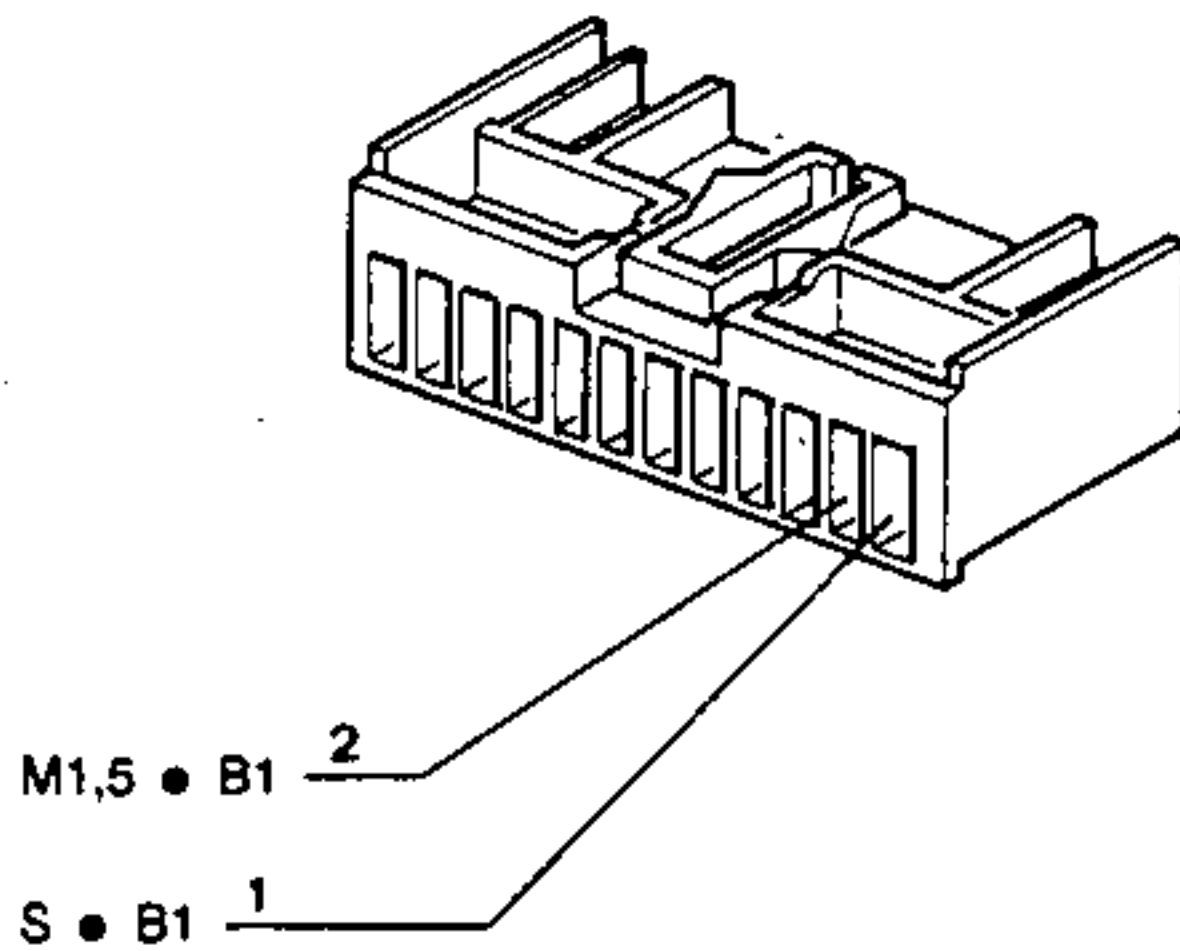
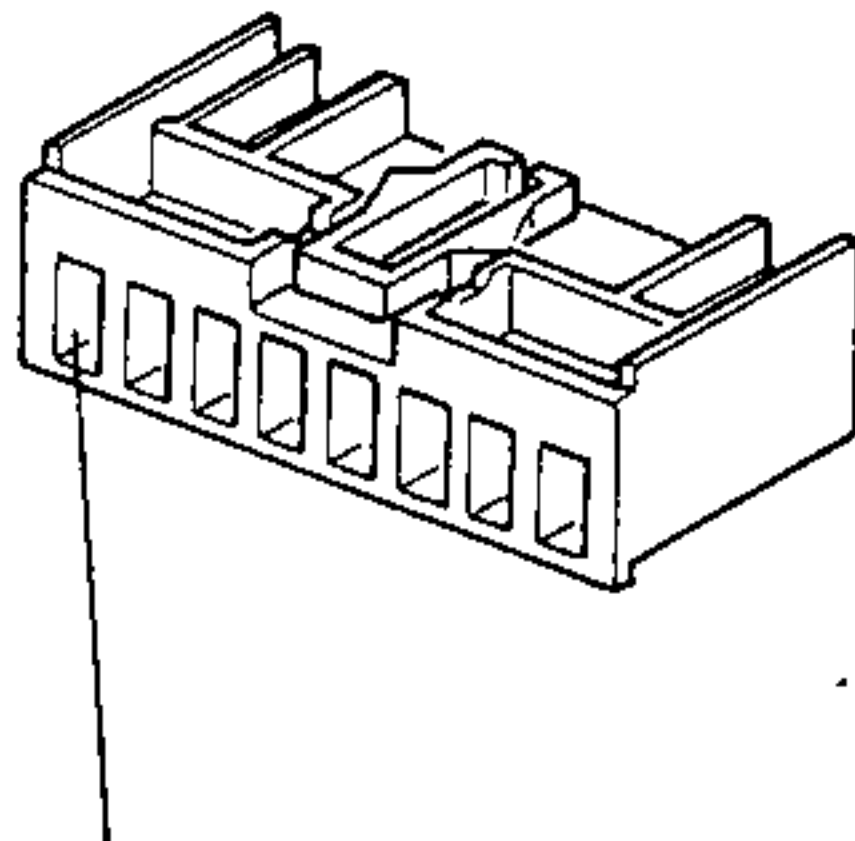


# ELECTRICAL SYSTEM

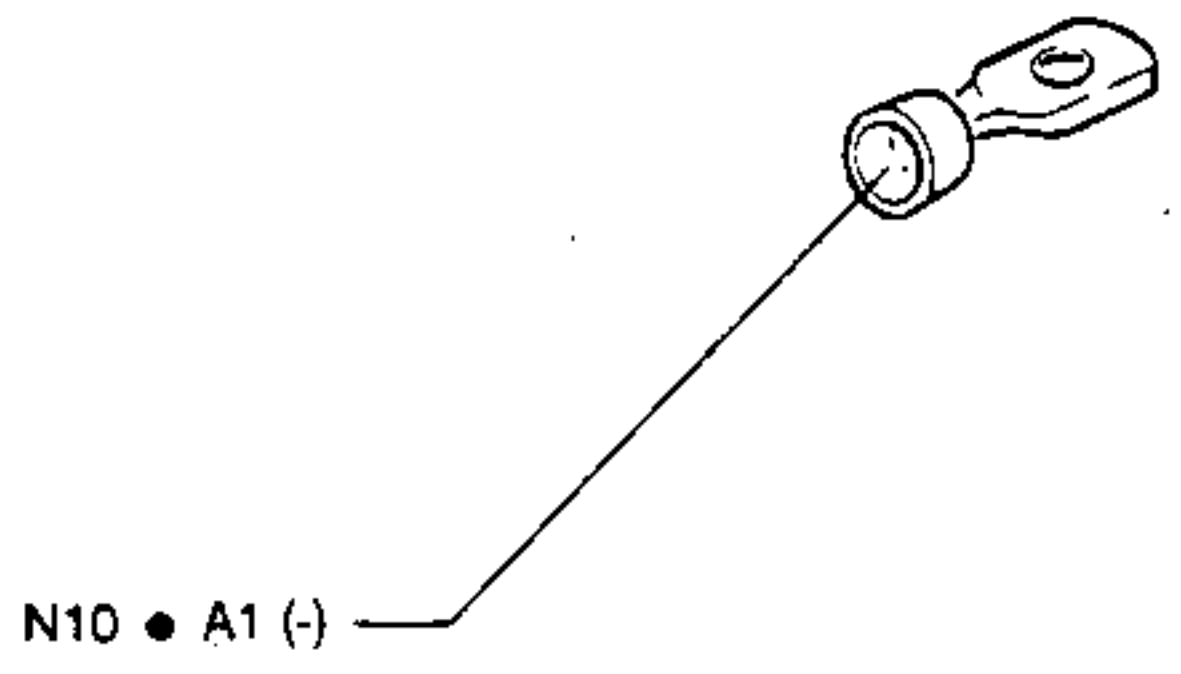
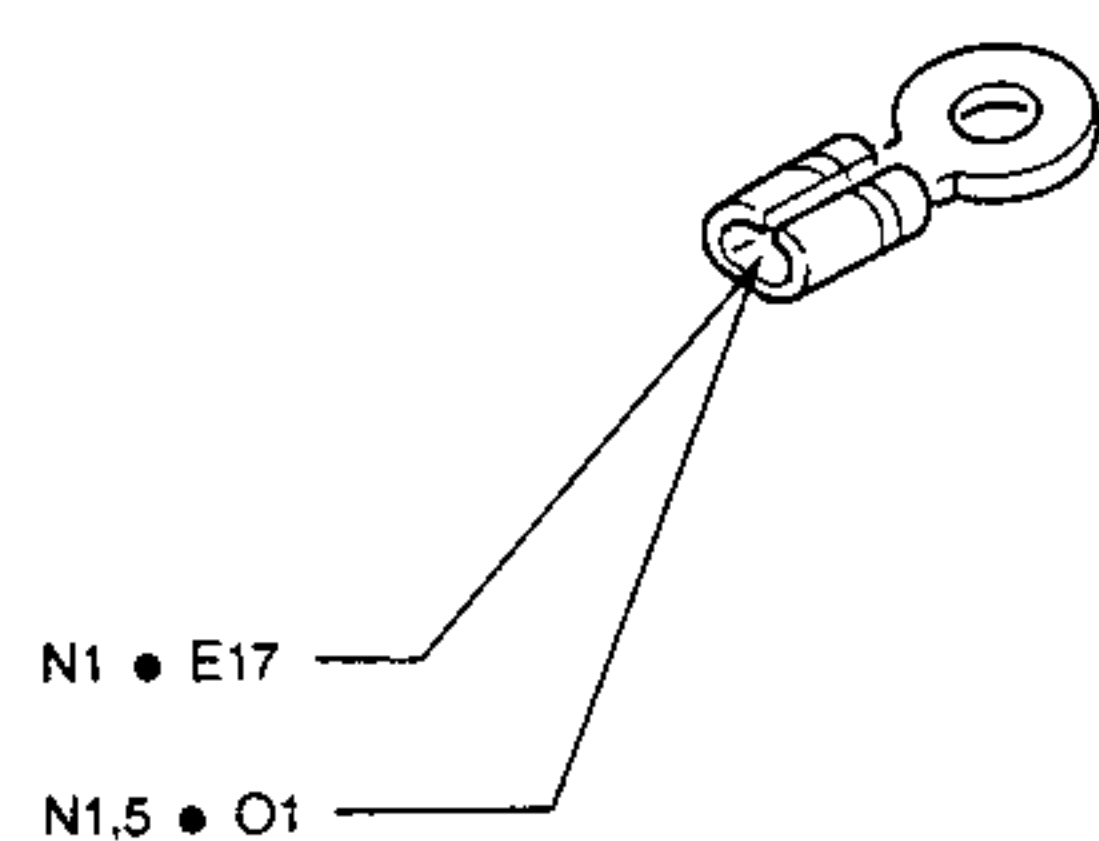
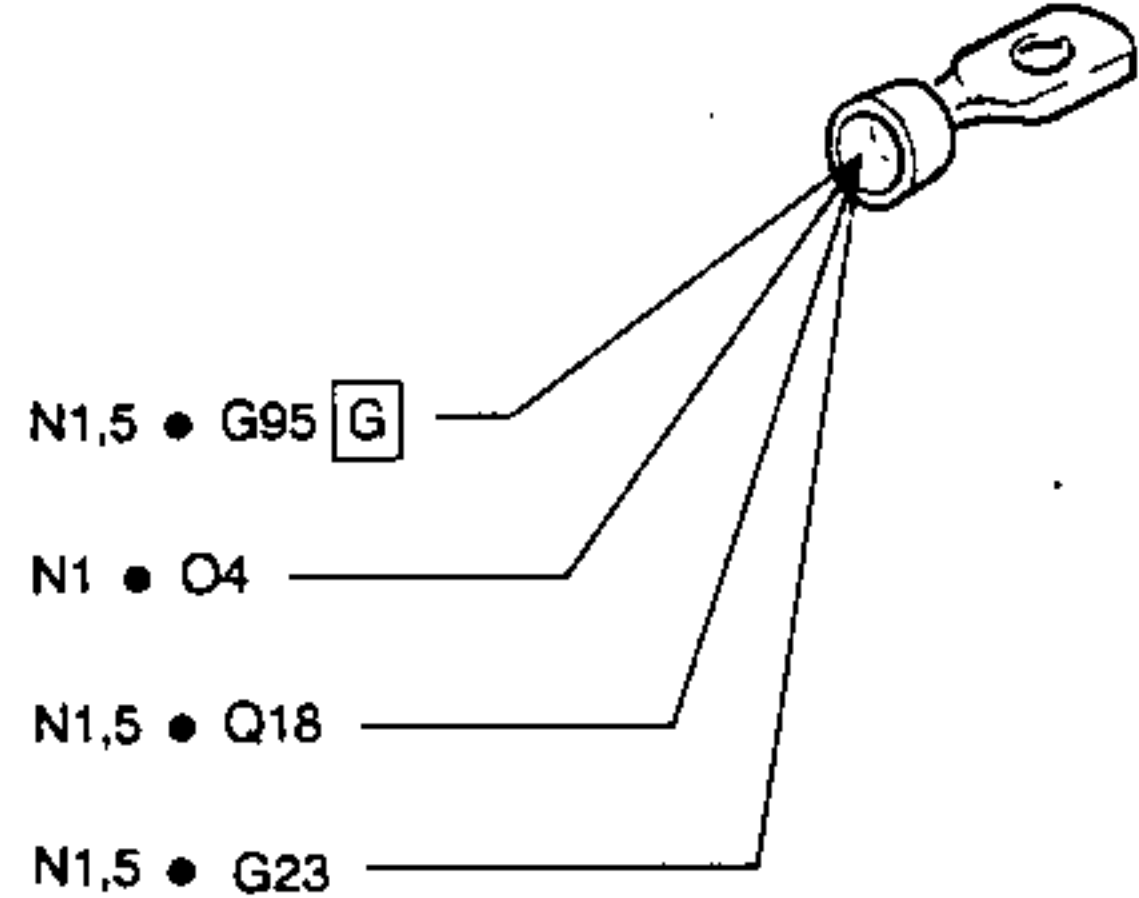
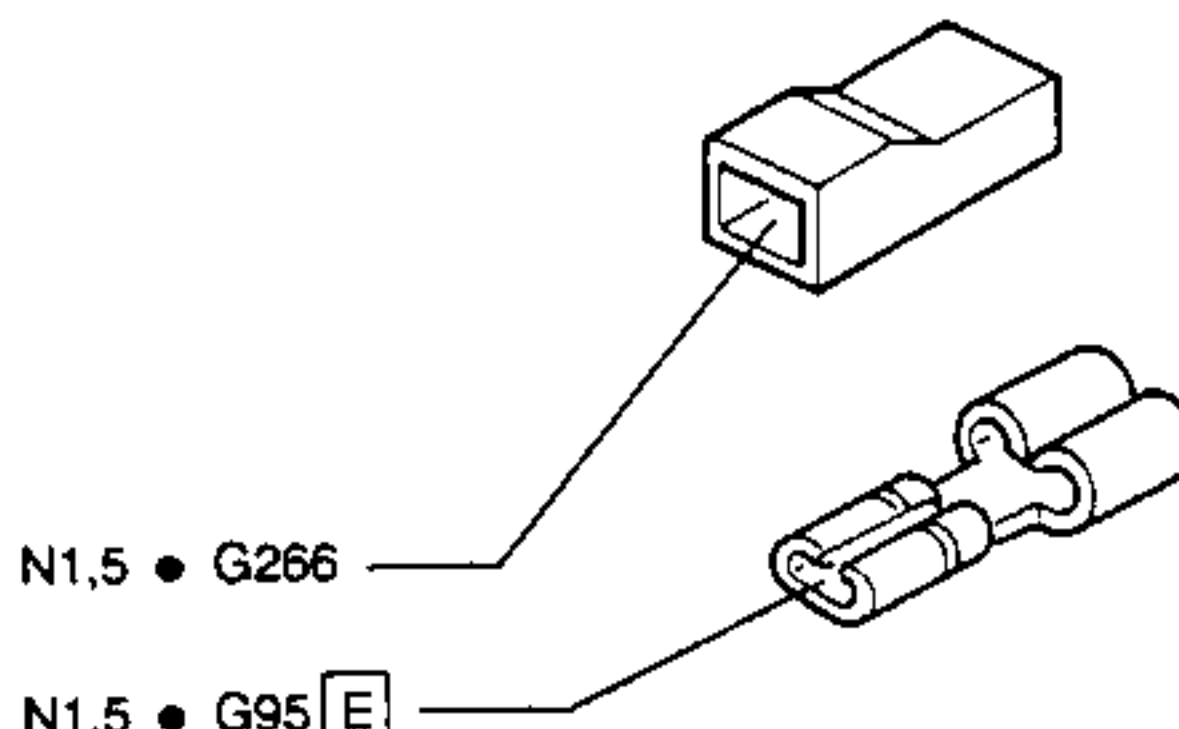
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p style="text-align: center;">R10 • G56</p>		 <p style="text-align: center;">N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
Ignition switch	B1	Heated rear window control switch	B9
 <p style="text-align: center;">S • G95 [H] 1 R2,5 • G56 3 2 VN1,5 • G99a 2 M1,5 • G95 [H]</p>		 <p style="text-align: center;">SB1 • G95 [G] 8 SB1 • B12 8 N • B9 9 N • B10 9 5 N • B9 5 N • B11 4 CN • G95 [B]</p>	
33.90.028		33.90.008	
Fog lamp control switch	B10	Branch terminal board	G56
 <p style="text-align: center;">N • G95 [J] 9 N • B9 9</p>		 <p style="text-align: center;">R2,5 • B1 R2,5 • B68 [A] R10 • G95 (+) R10 • A1 (+)</p>	
33.90.008		33.90.011	

ELECTRICAL SYSTEM

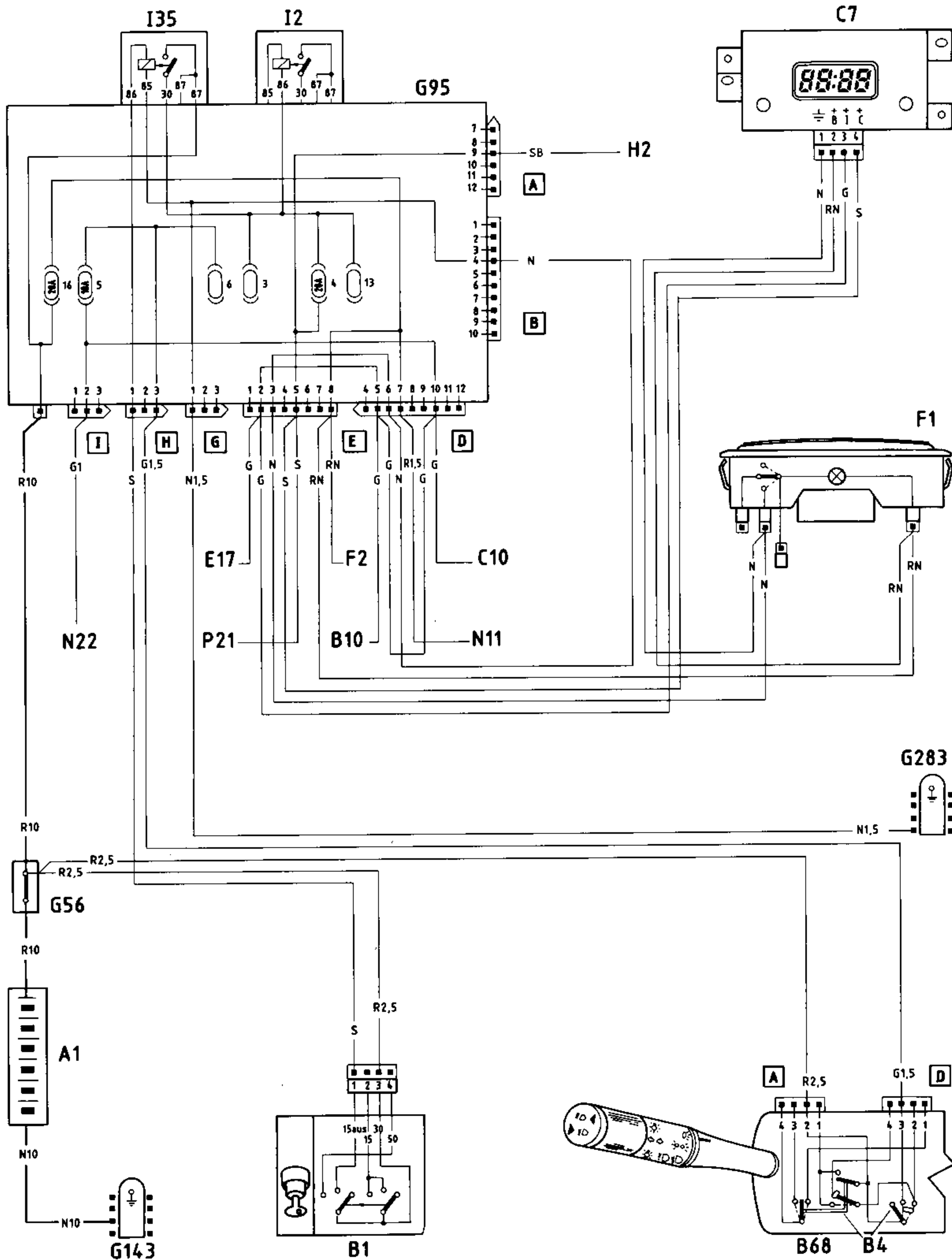
<p>Central fusebox (+)</p>	<p>G95</p>	<p>Central fusebox</p>	<p>G95 B</p>
 <p>R10 • G56</p>	<p>33.90.006</p>	 <p>CN • B9 9</p>	<p>33.90.005</p>
<p>Central fusebox</p>	<p>G95 E</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N1,5 • O1 4</p>	<p>33.90.003</p>	 <p>SB1 • B9 2 SB • N22 2 N1,5 • G283 1</p>	<p>33.90.005</p>
<p>Central fusebox</p>	<p>G95 H</p>	<p>Central fusebox</p>	<p>G95 J</p>
 <p>M1,5 • B1 2 S • B1 1</p>	<p>33.90.004</p>	 <p>N • B10 8</p>	<p>33.90.003</p>

# ELECTRICAL SYSTEM

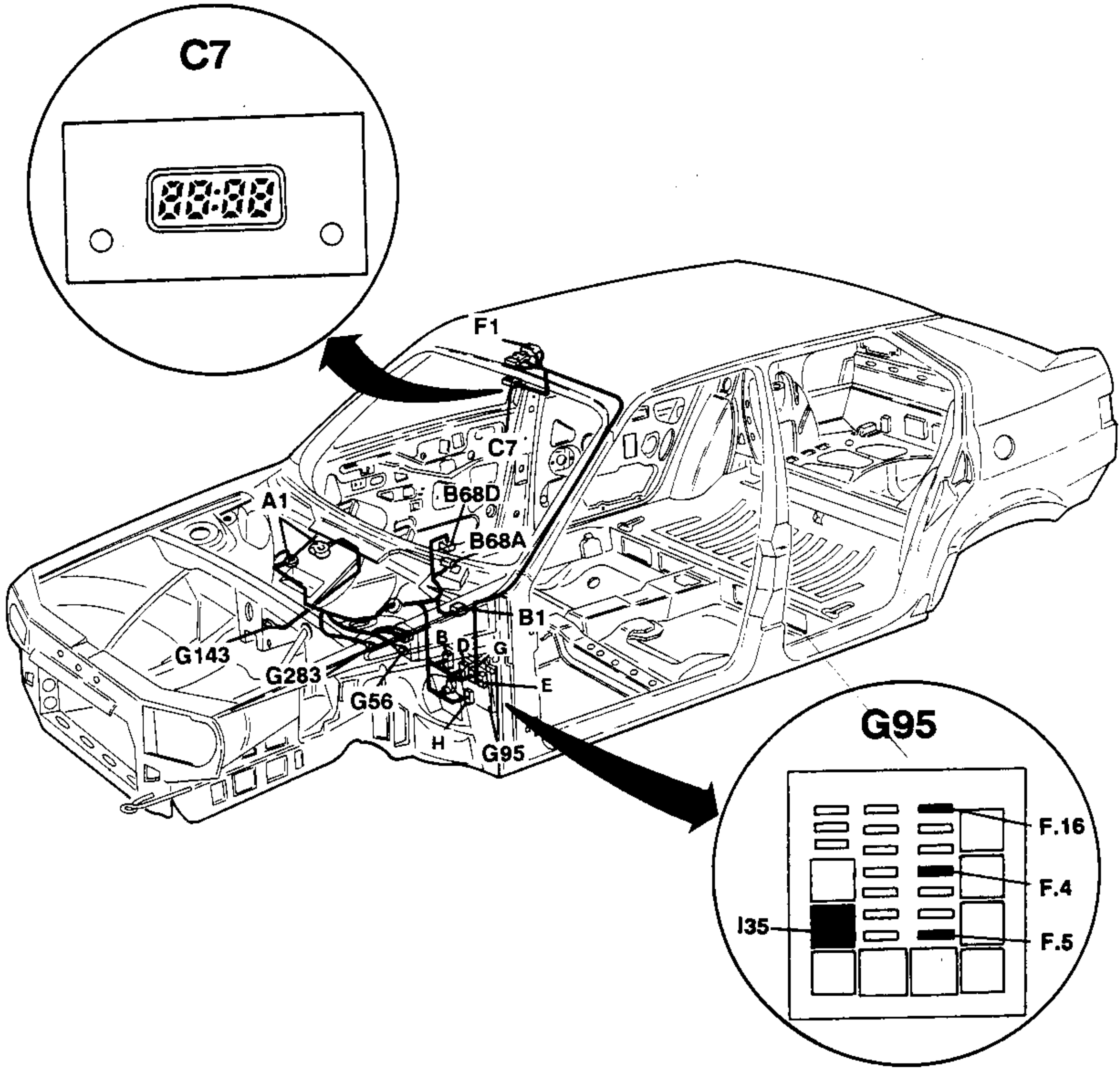
<p><b>Central service compartment earth</b></p>	<p><b>G143</b></p>	<p><b>Boot lid earth</b></p>	<p><b>G266</b></p>
 <p>N10 • A1 (-)</p>		 <p>N1 • E17 N1,5 • O1</p>	
	<p>33.90.001</p>		<p>33.90.032</p>
<p><b>Earth on left service compartment</b></p>	<p><b>G283</b></p>	<p><b>Heated rear window</b></p>	<p><b>O1</b></p>
 <p>N1,5 • G95 [G] N1 • O4 N1,5 • Q18 N1,5 • G23</p>		 <p>N1,5 • G266 N1,5 • G95 [E]</p>	
	<p>33.90.001</p>		<p>33.90.021 - 33.90.015</p>

CLOCK

Wiring diagram



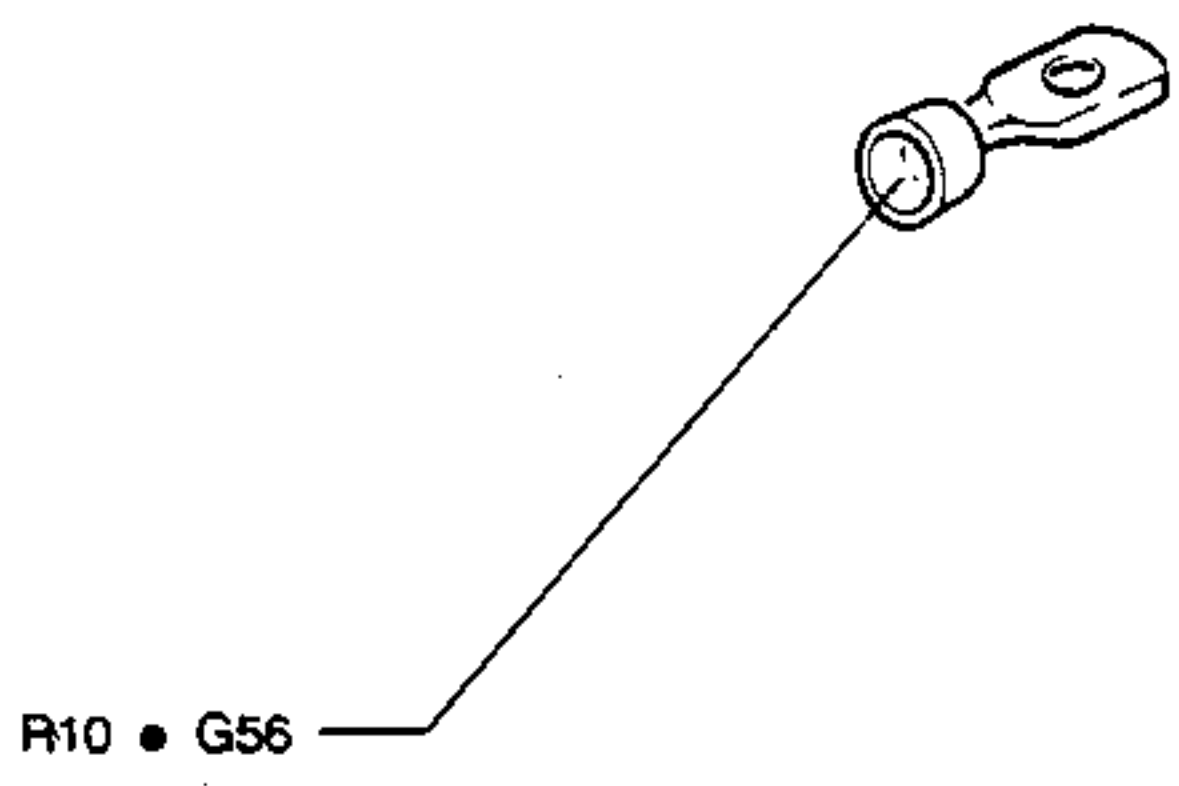
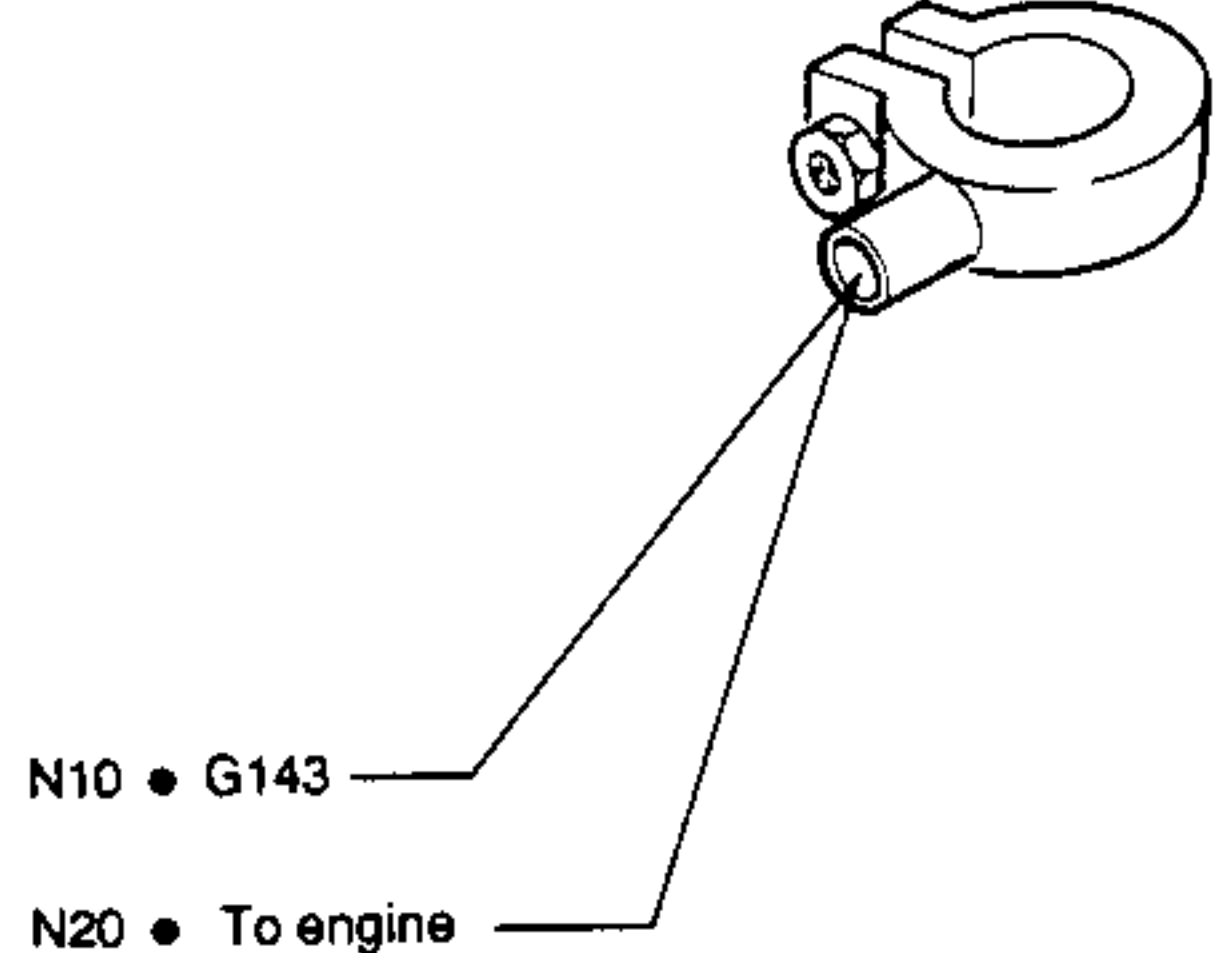
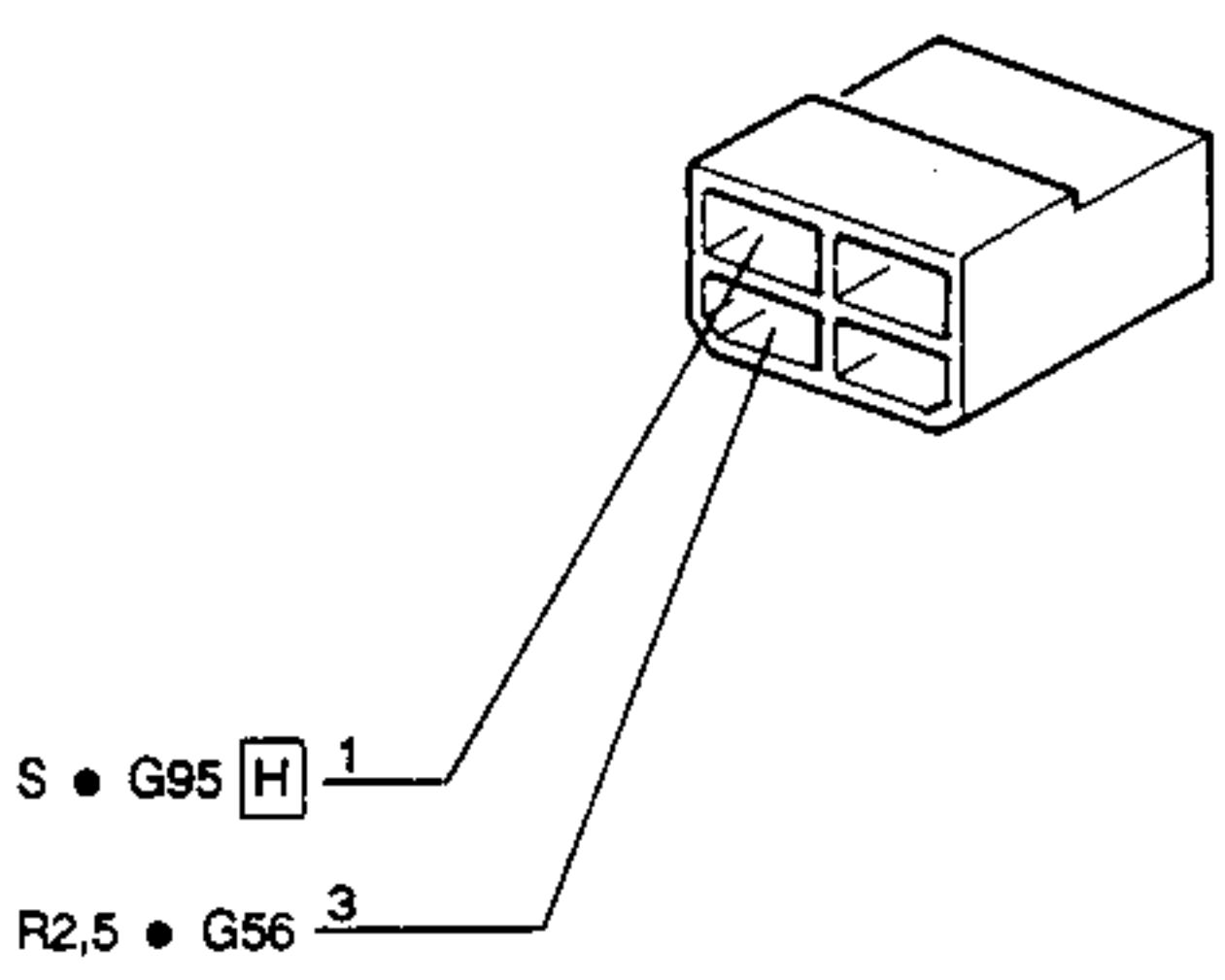
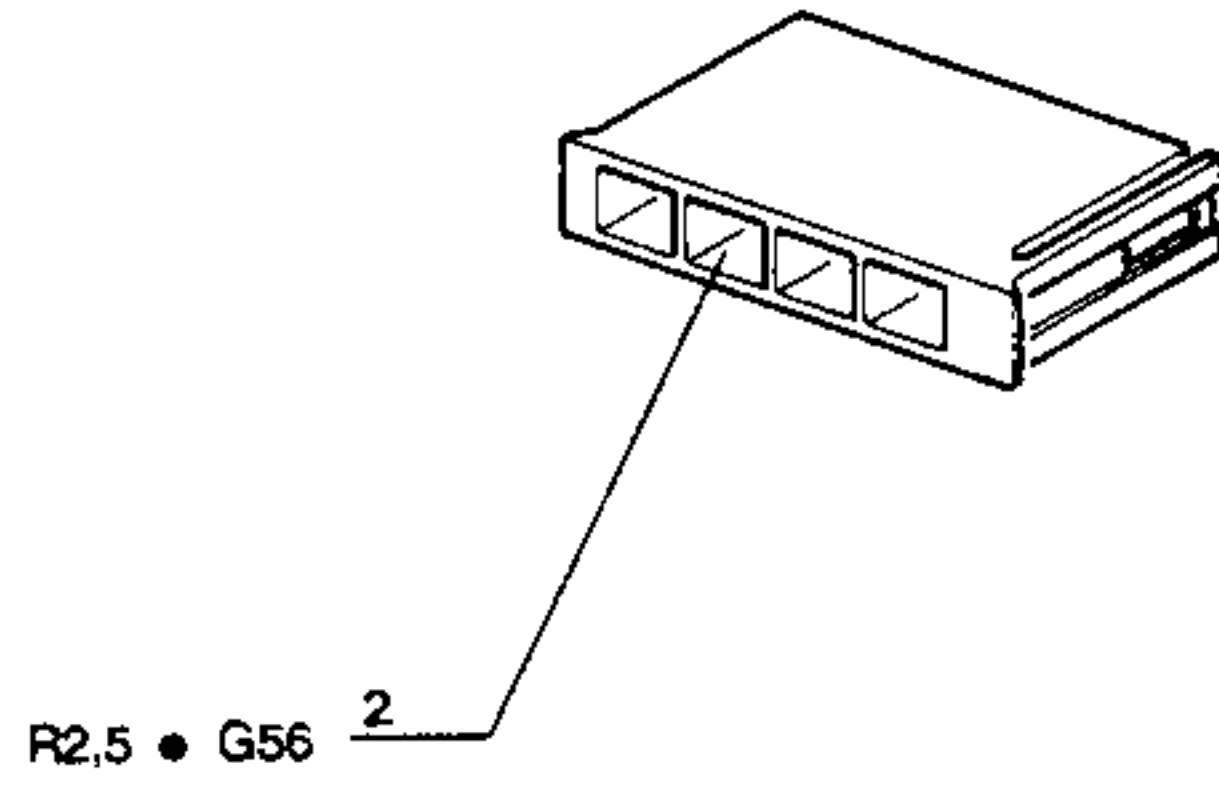
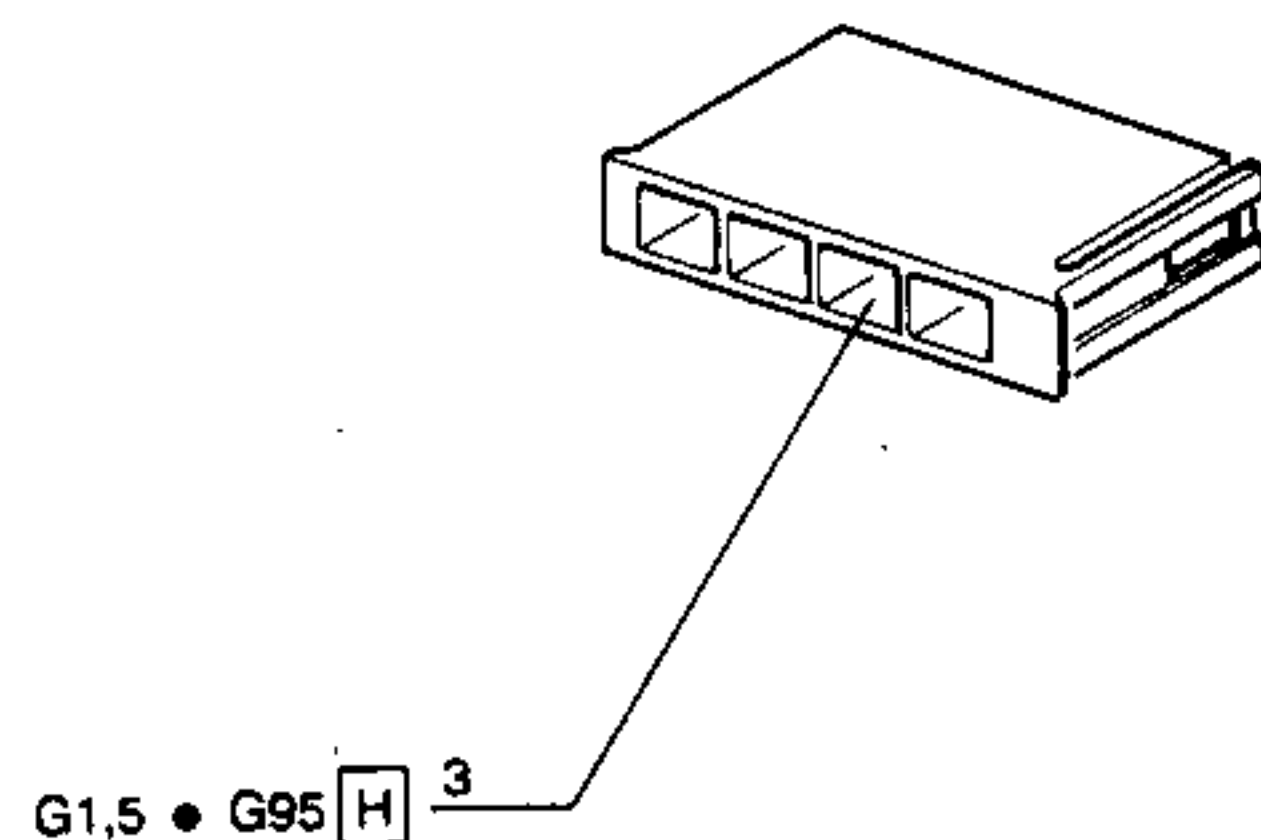
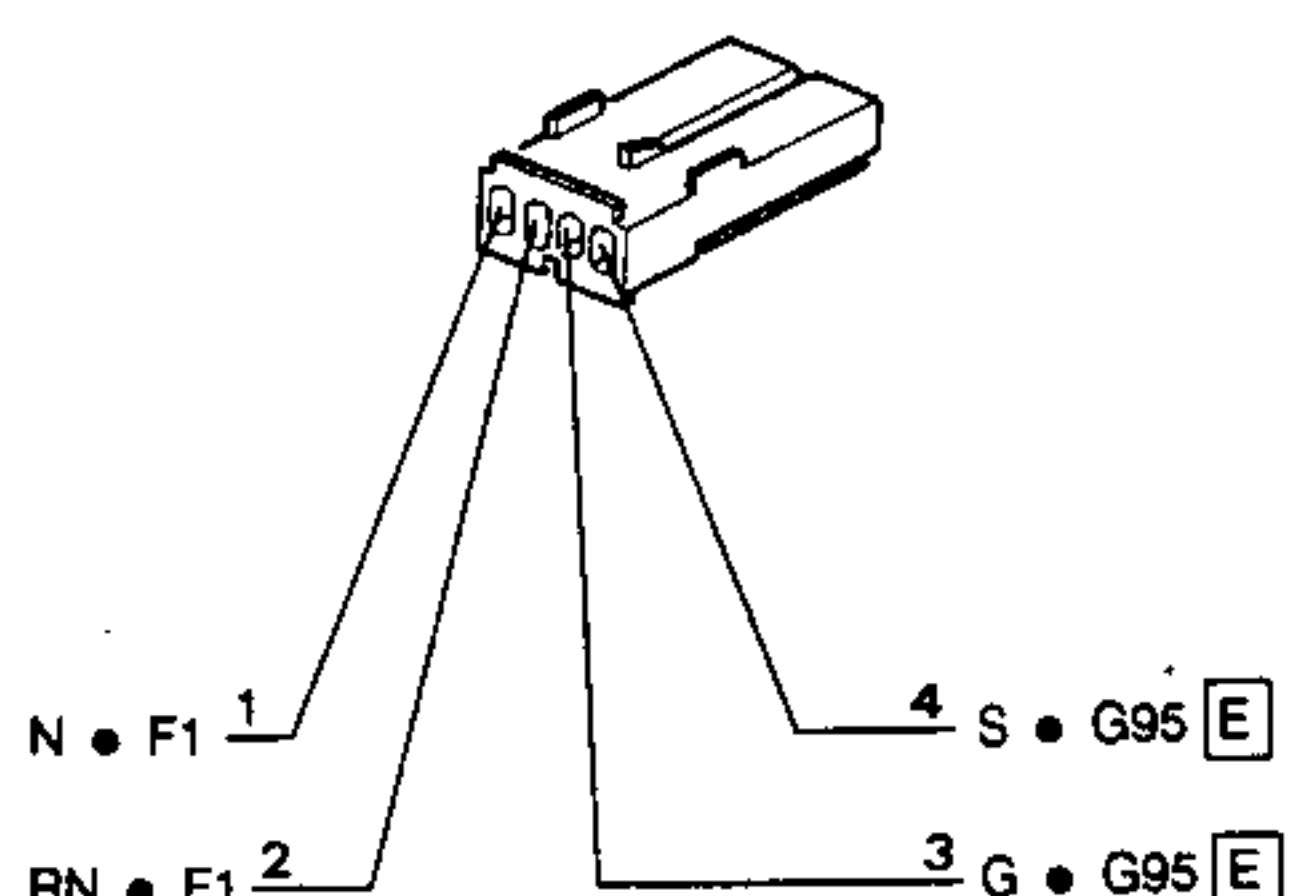
Wiring



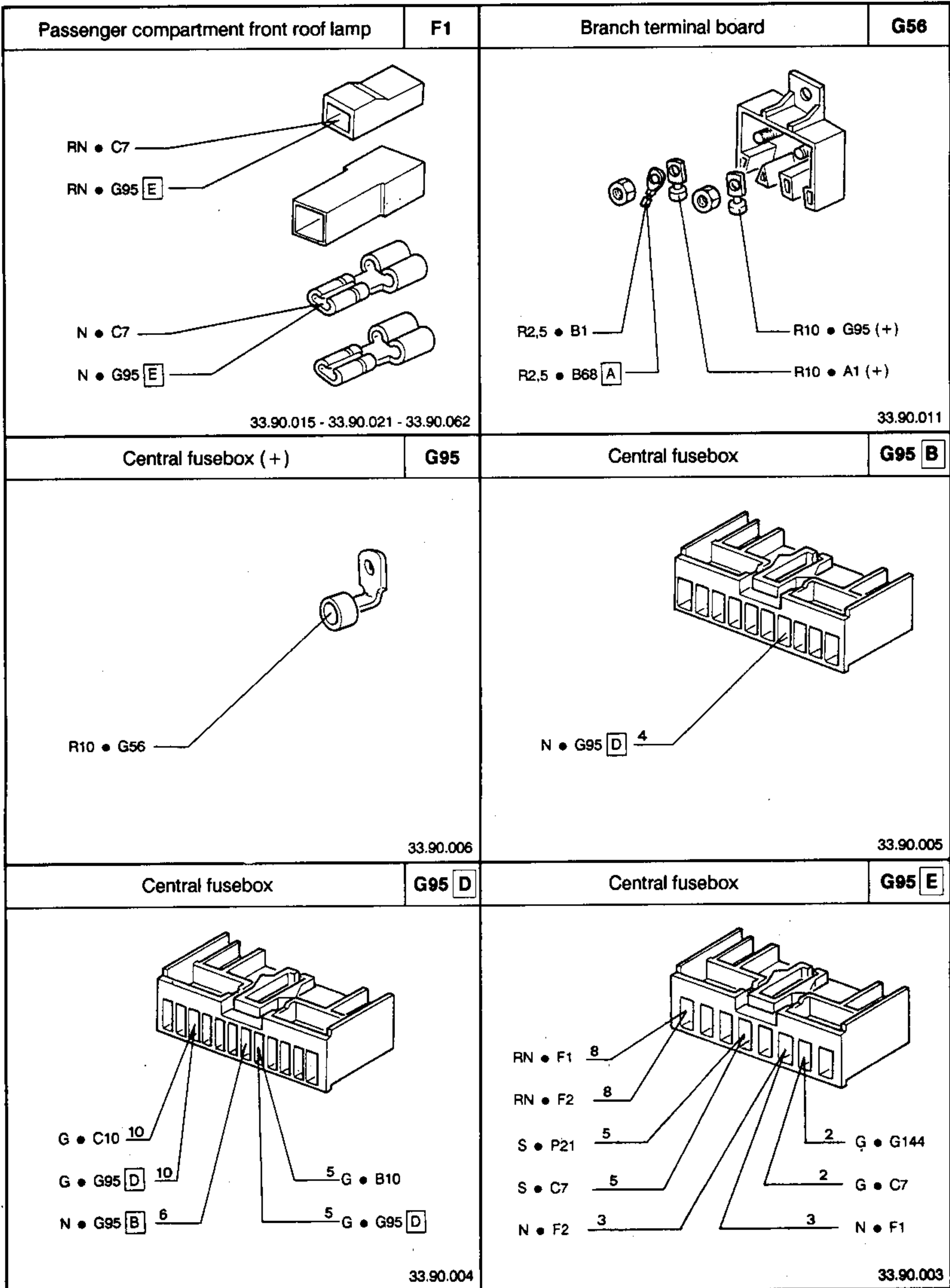


# ELECTRICAL SYSTEM

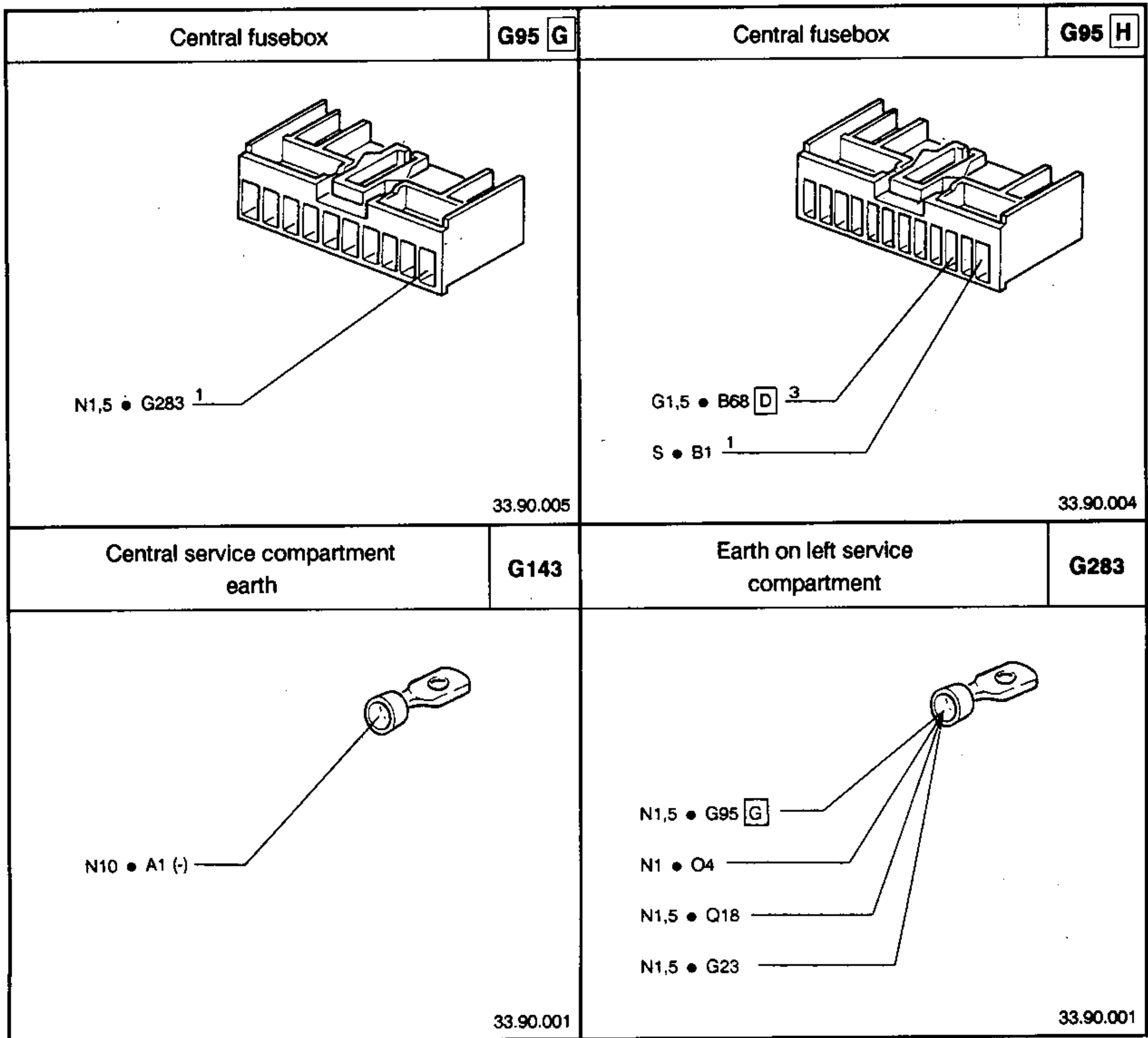
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Turn signal switch unit	B68 A
 <p>S • G95 <span style="border: 1px solid black; padding: 0 2px;">H</span> 1 R2,5 • G56 3</p>	33.90.028	 <p>R2,5 • G56 2</p>	33.90.027
Turn signal switch unit	B68 D	Clock	C7
 <p>G1,5 • G95 <span style="border: 1px solid black; padding: 0 2px;">H</span> 3</p>	33.90.027	 <p>N • F1 1 RN • F1 2 4 S • G95 <span style="border: 1px solid black; padding: 0 2px;">E</span> 3 G • G95 <span style="border: 1px solid black; padding: 0 2px;">E</span></p>	33.90.061

# ELECTRICAL SYSTEM



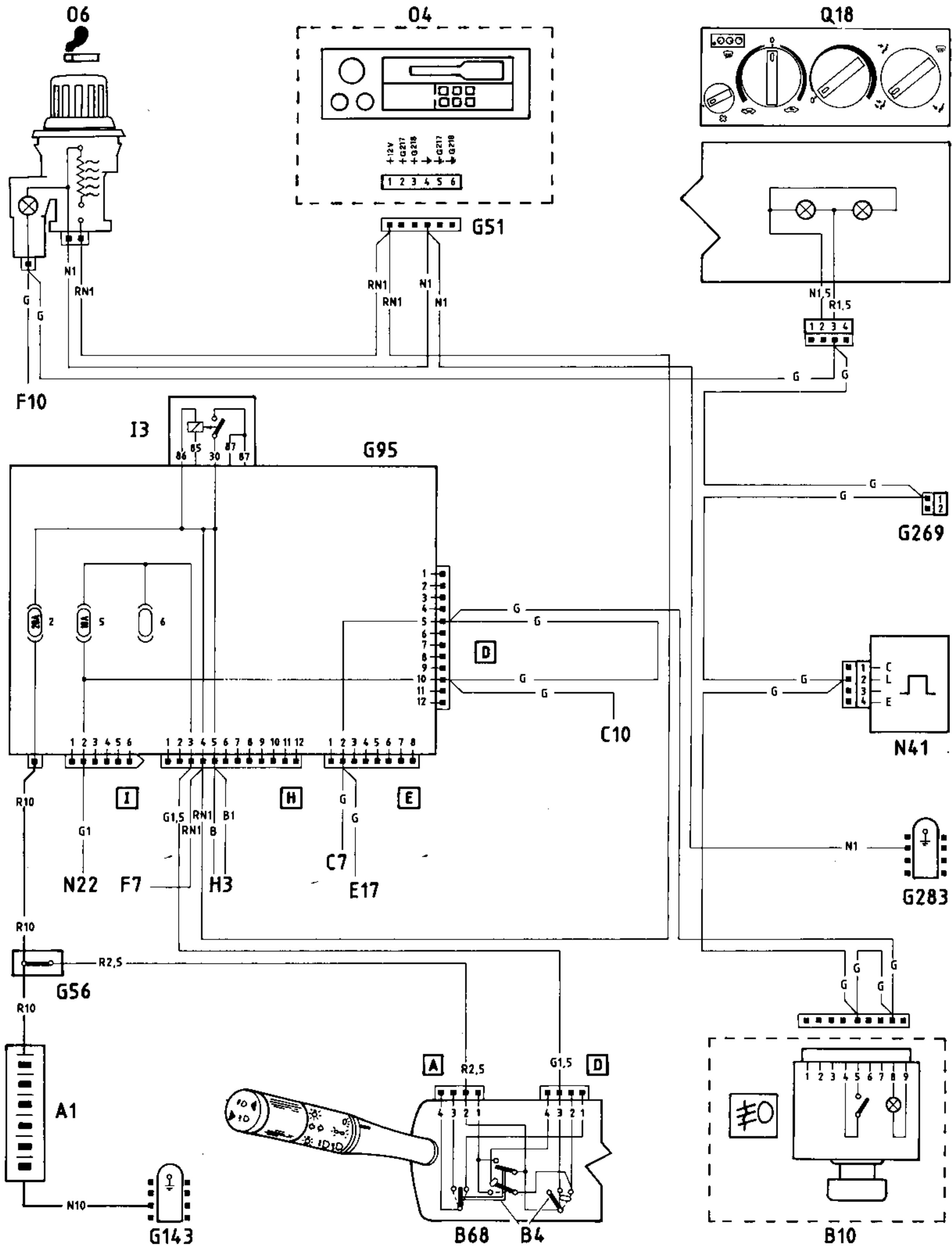
# ELECTRICAL SYSTEM



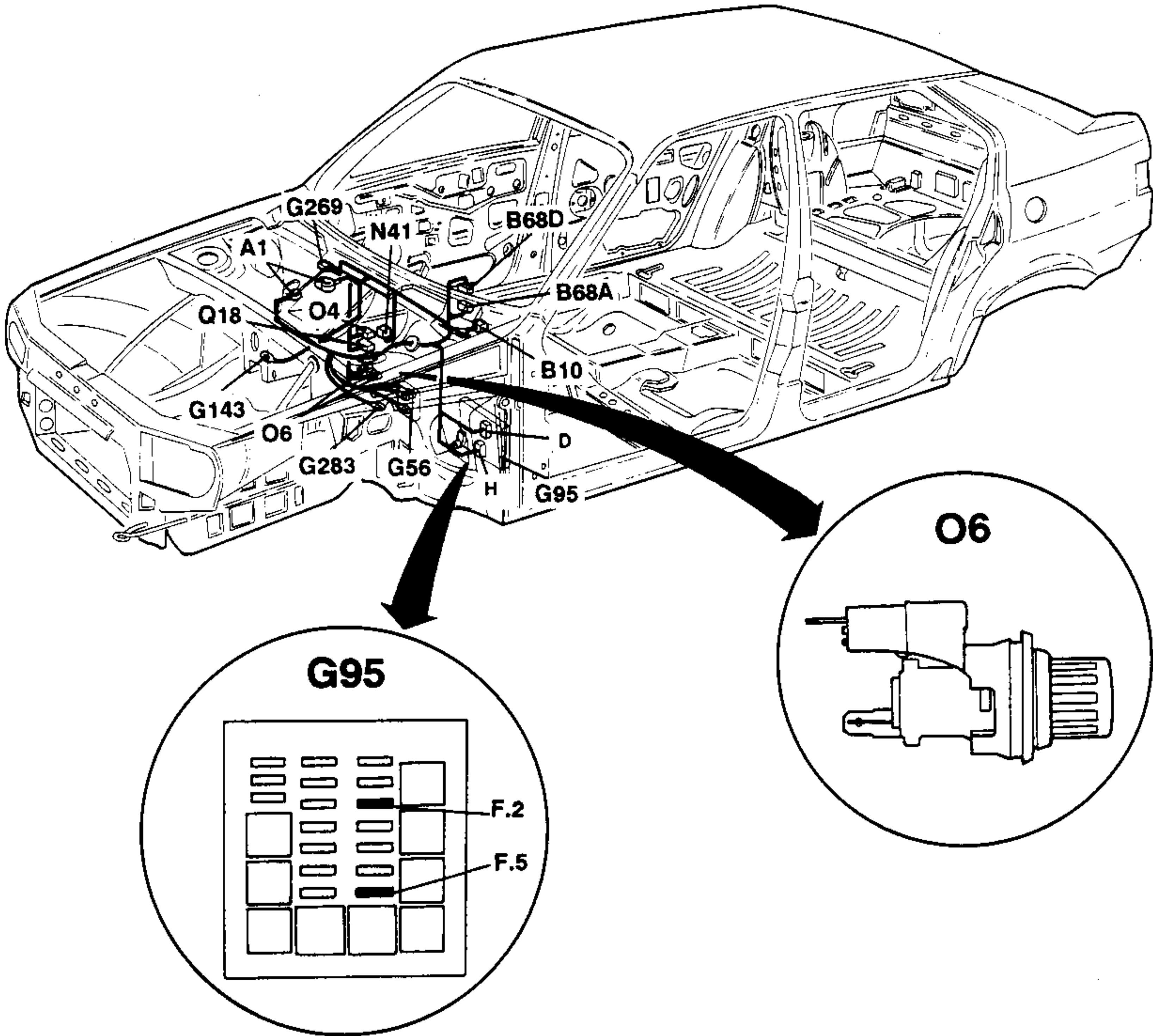
# ELECTRICAL SYSTEM

## CIGAR LIGHTER

### Wiring diagram

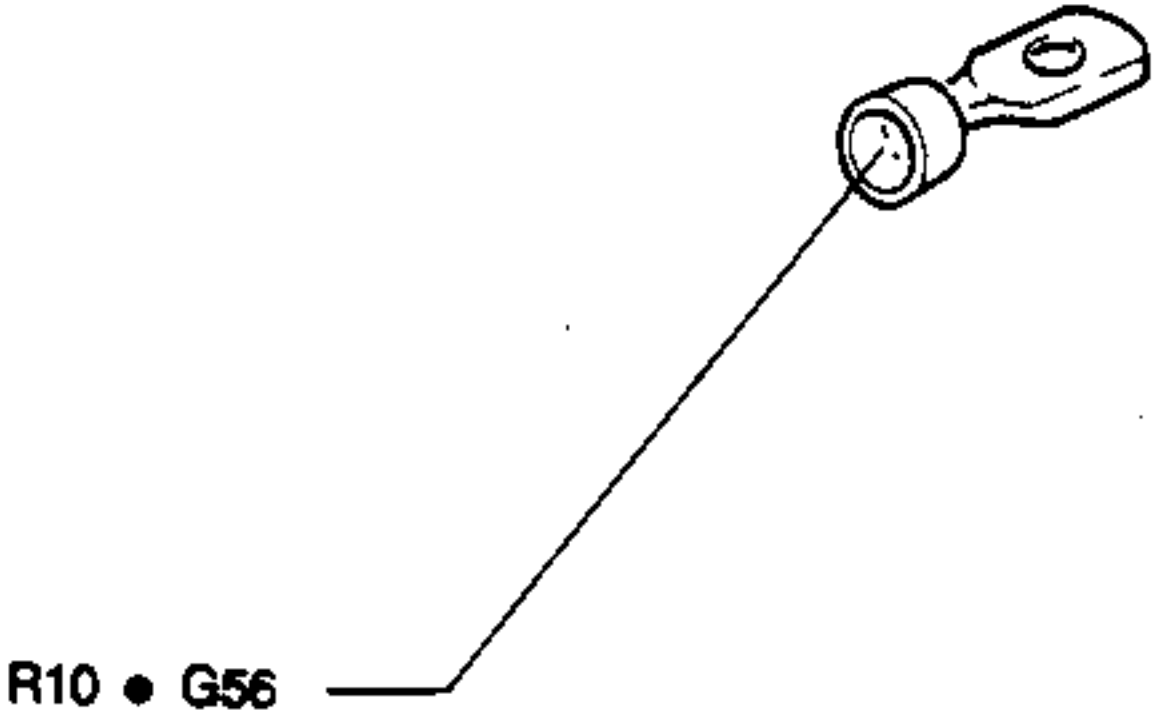
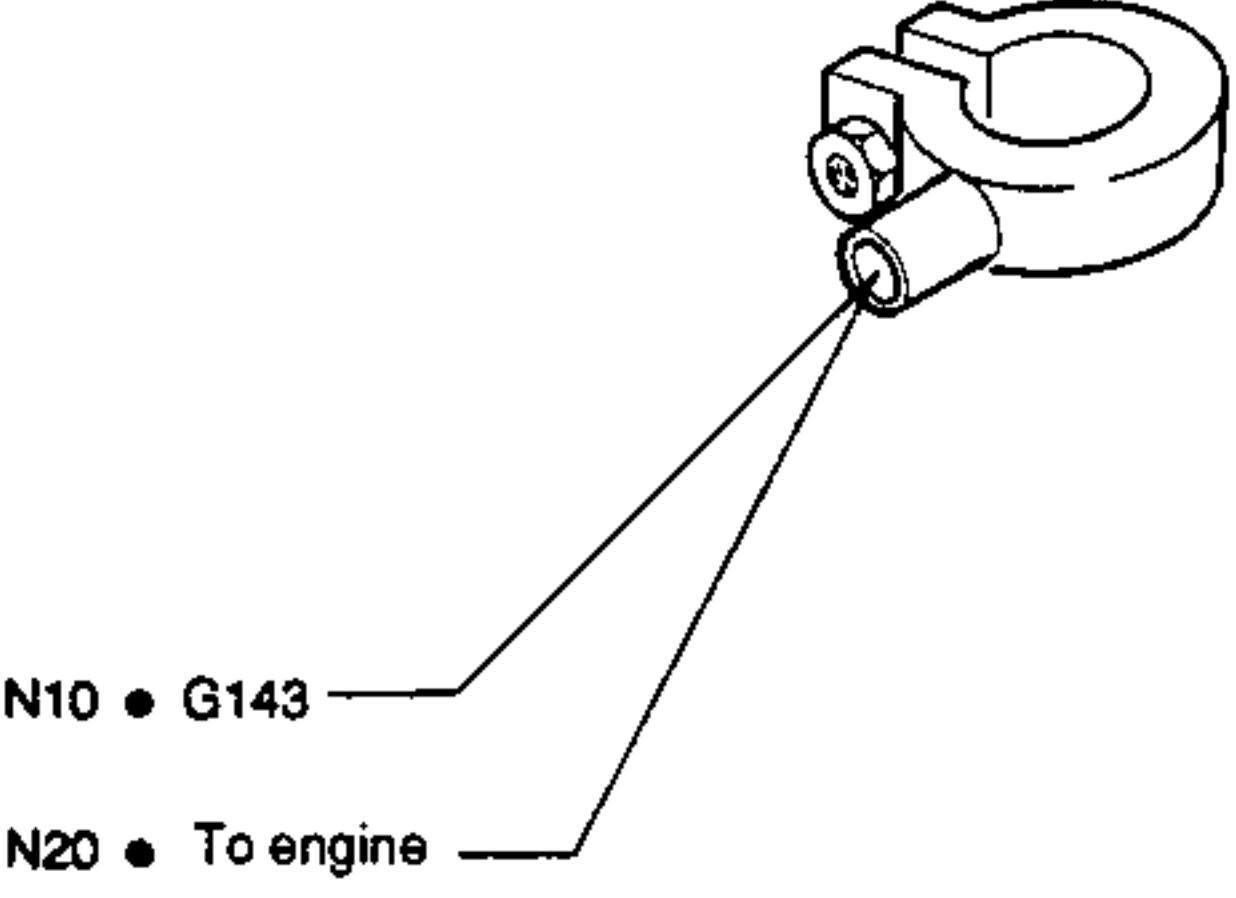
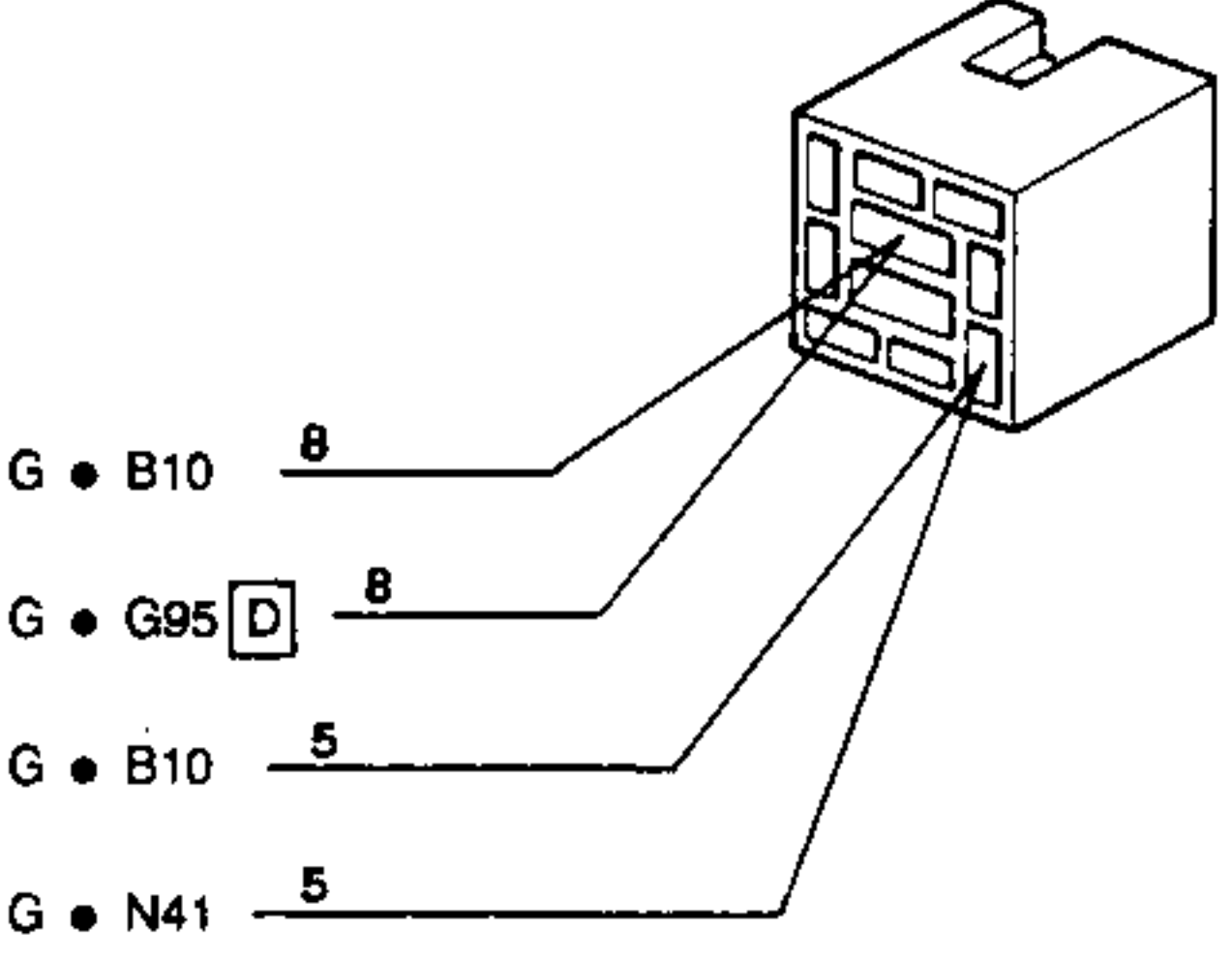
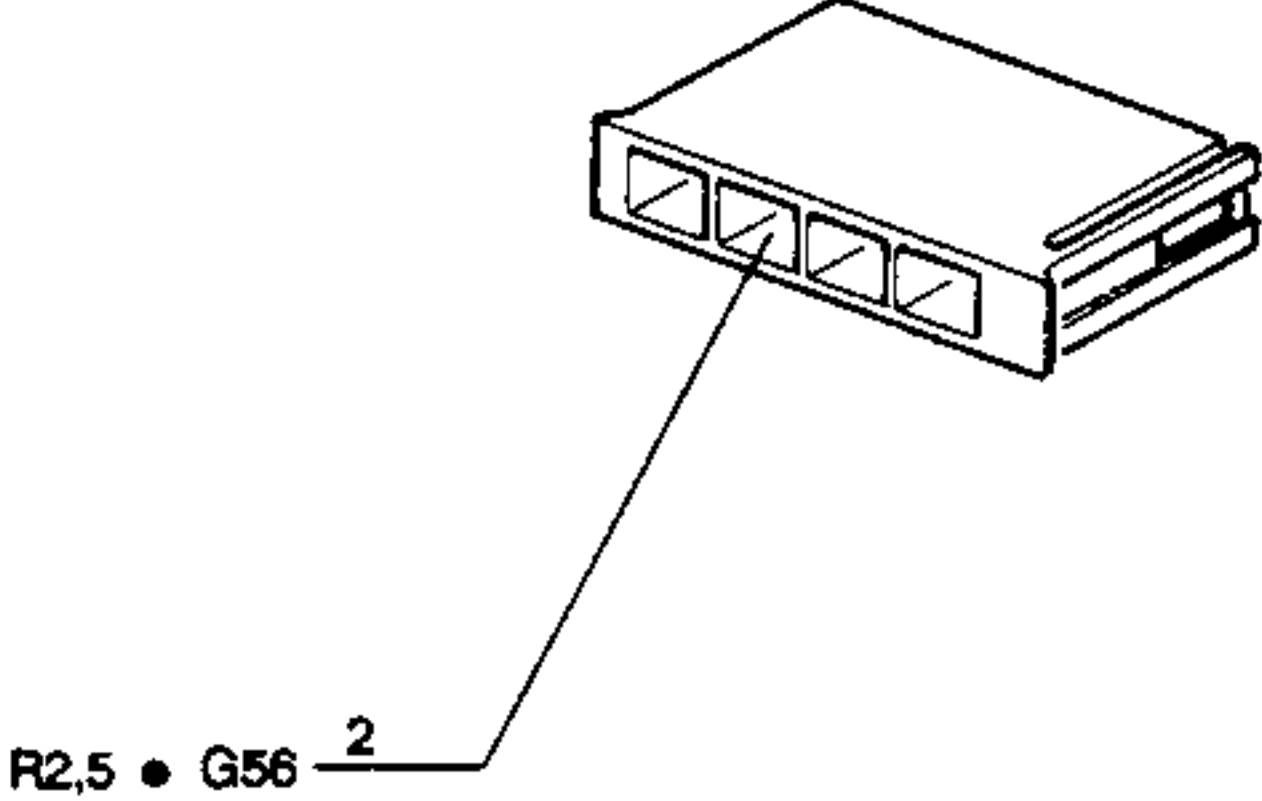
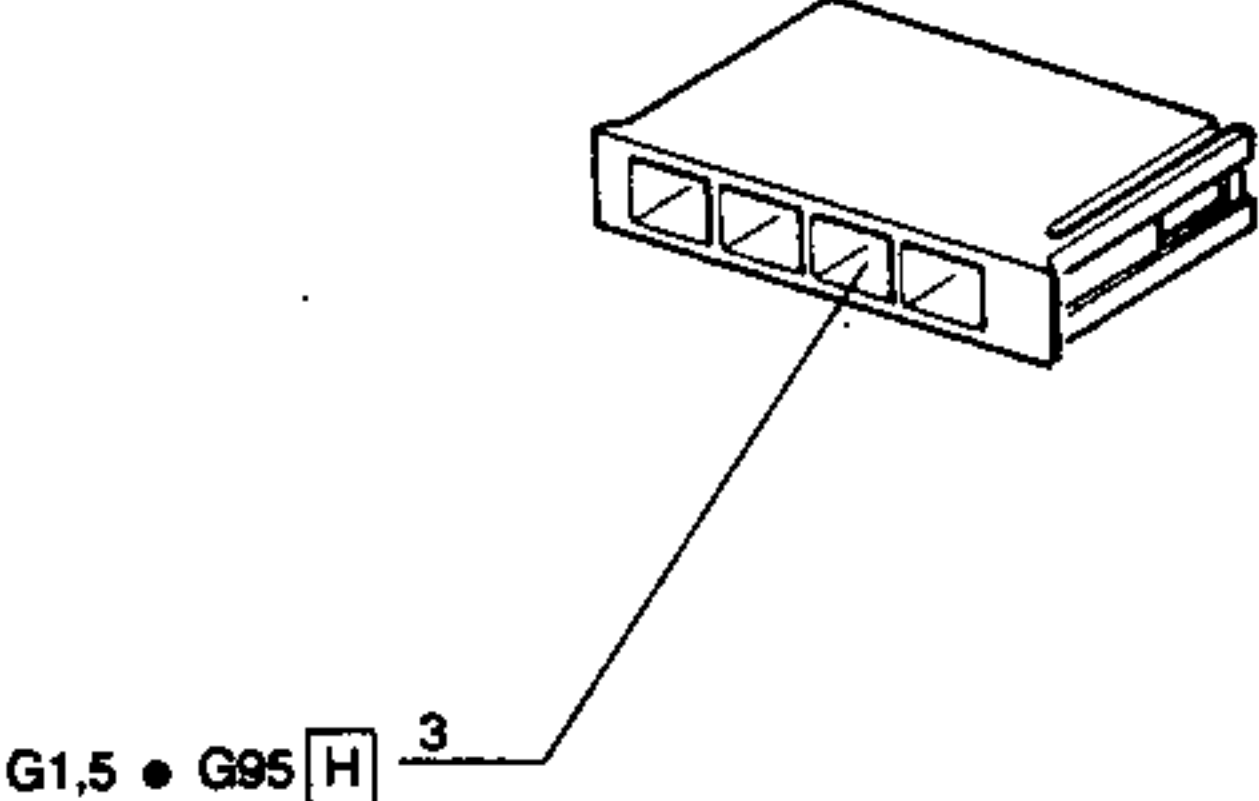
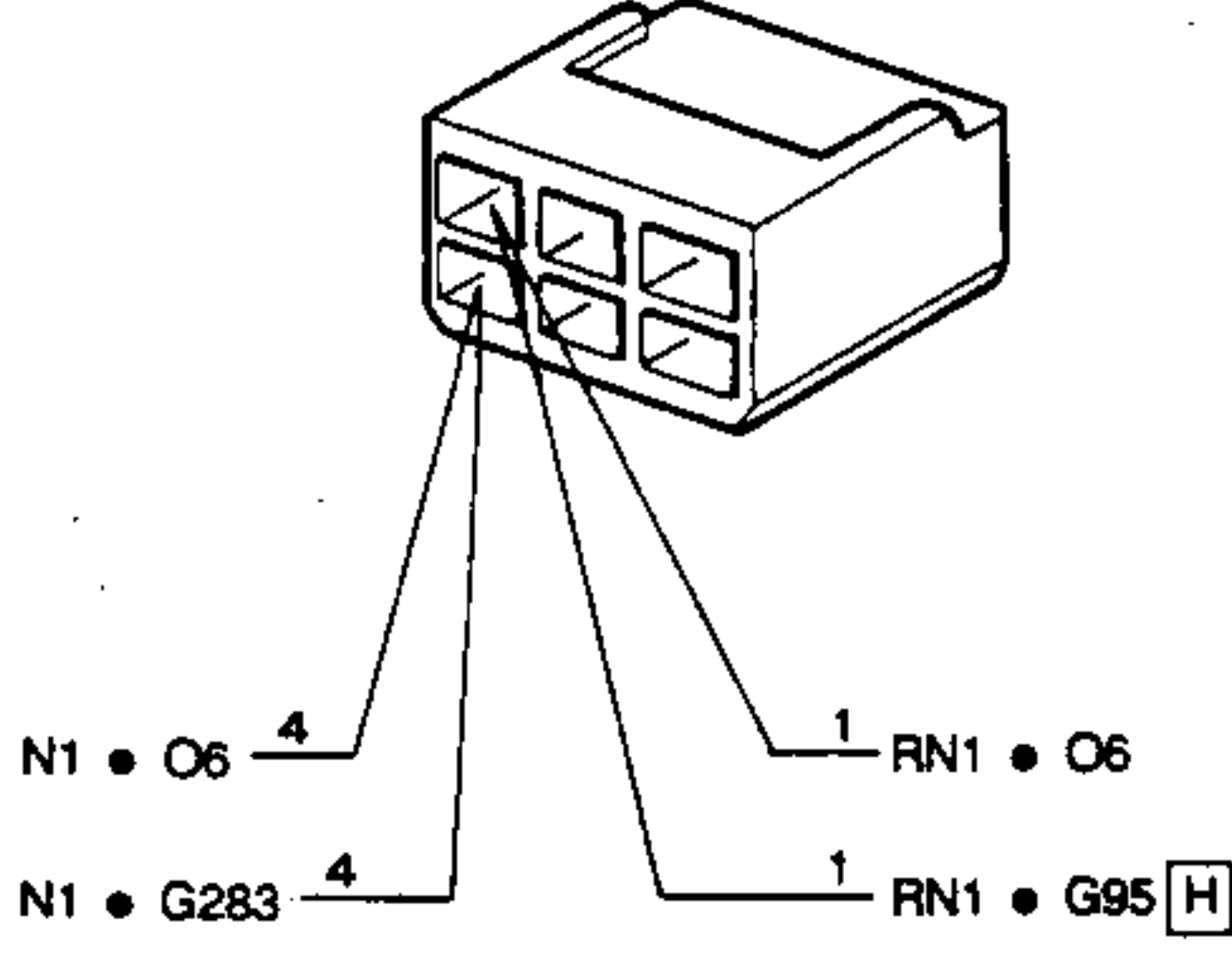


Wiring

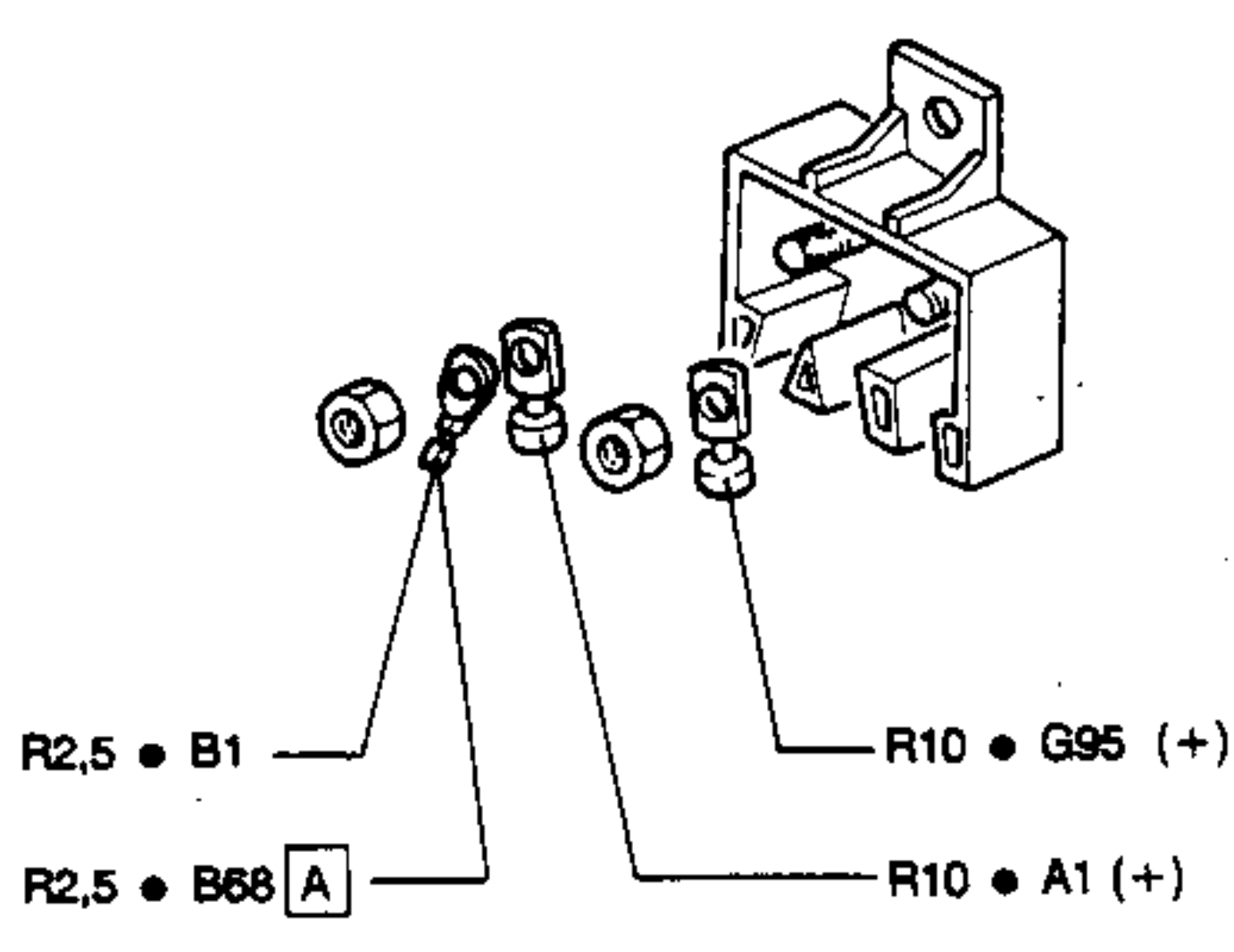
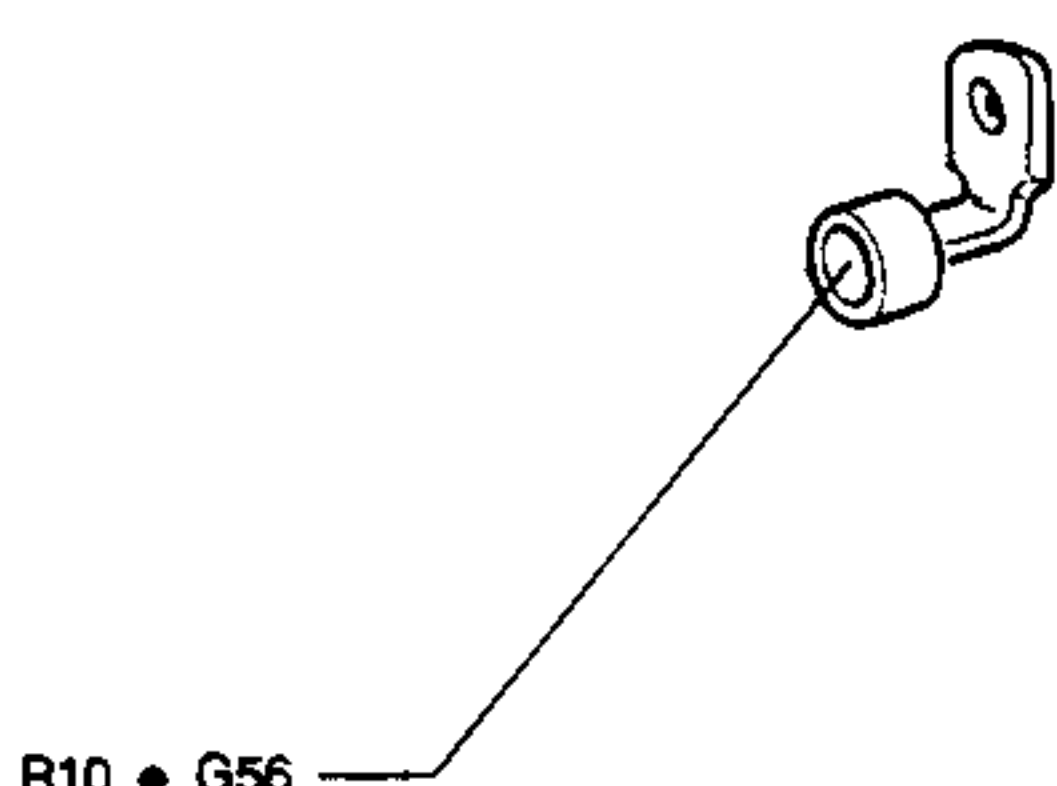
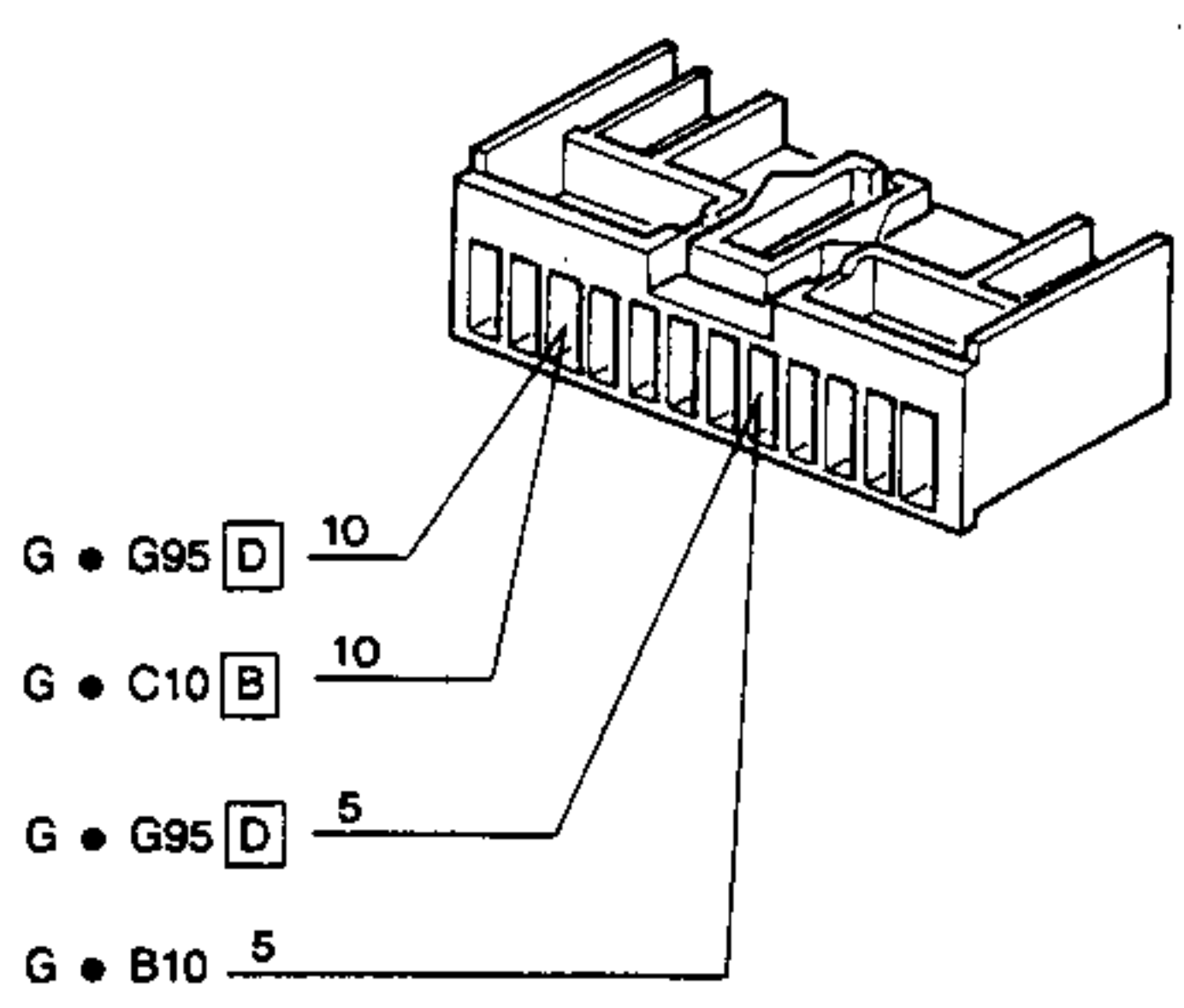
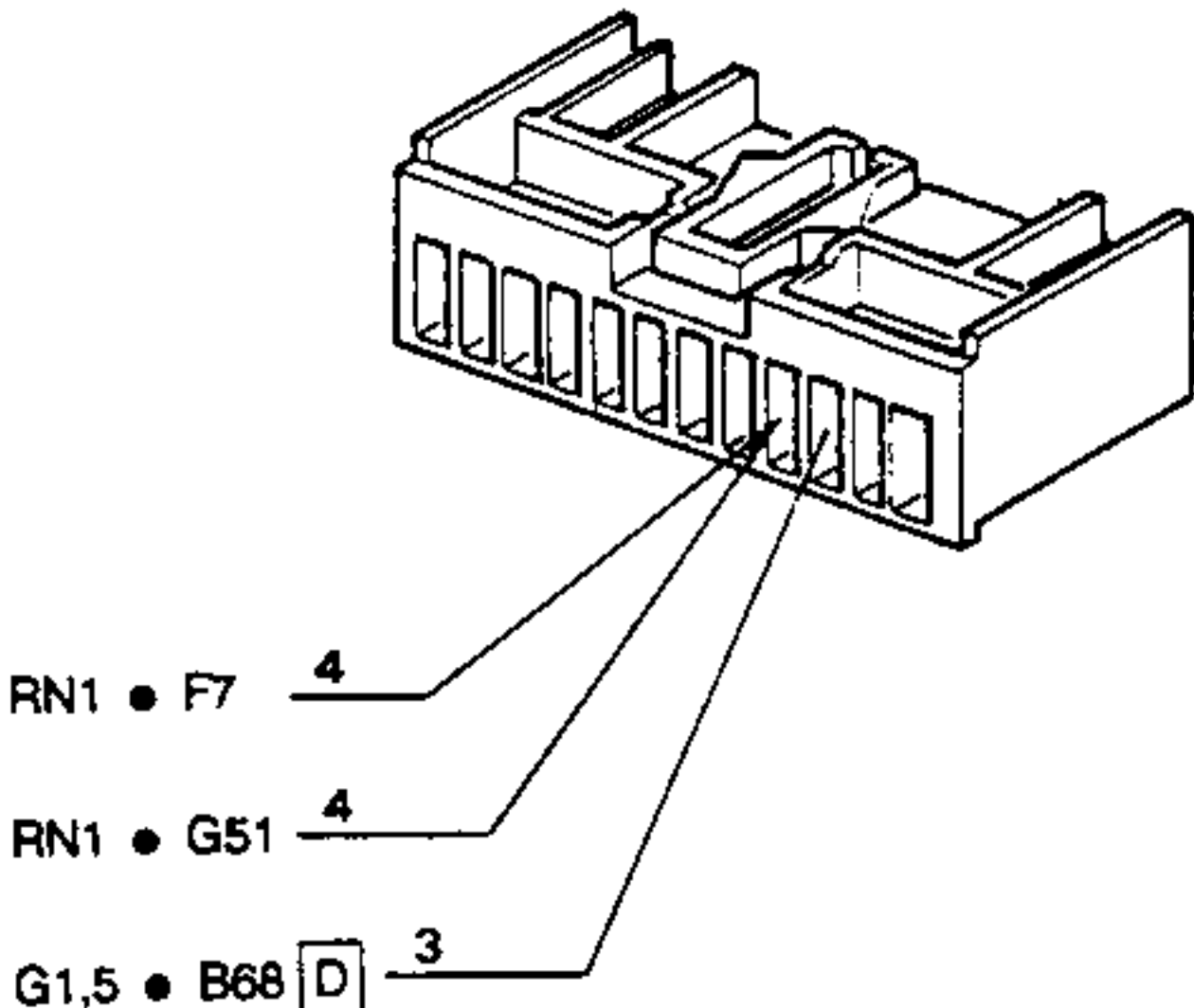
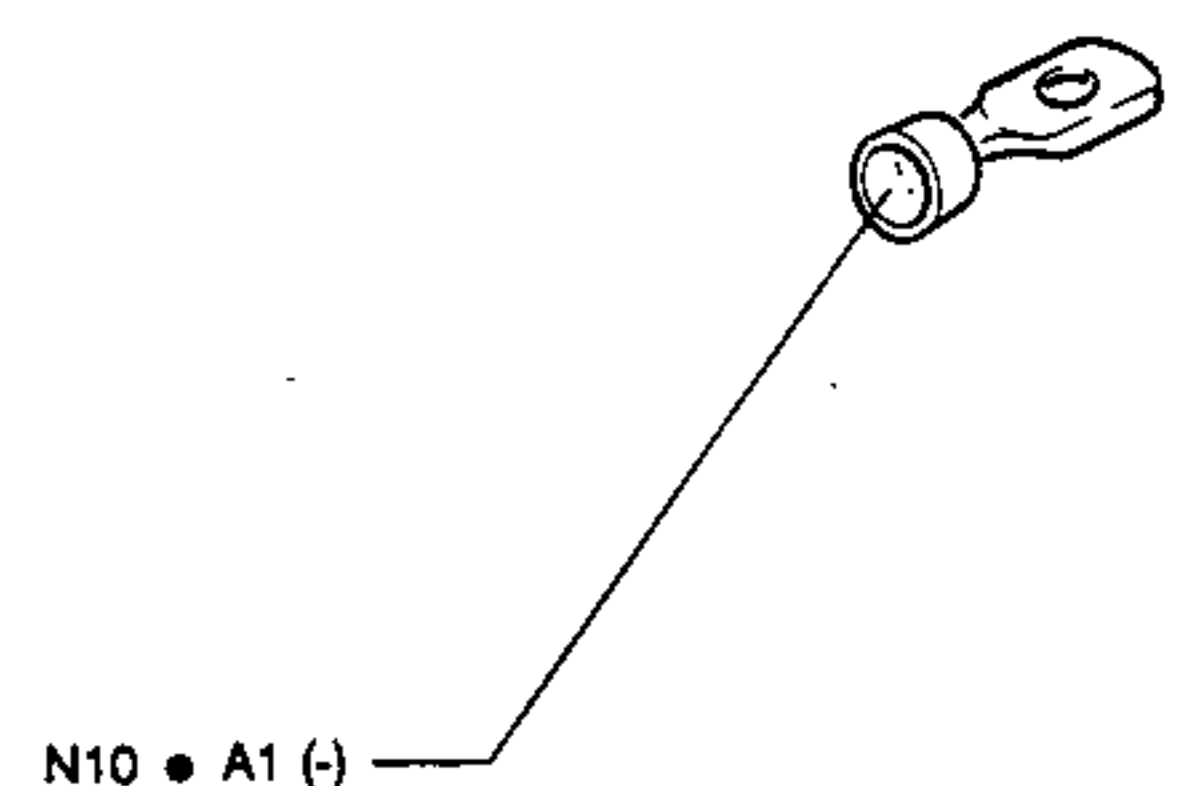
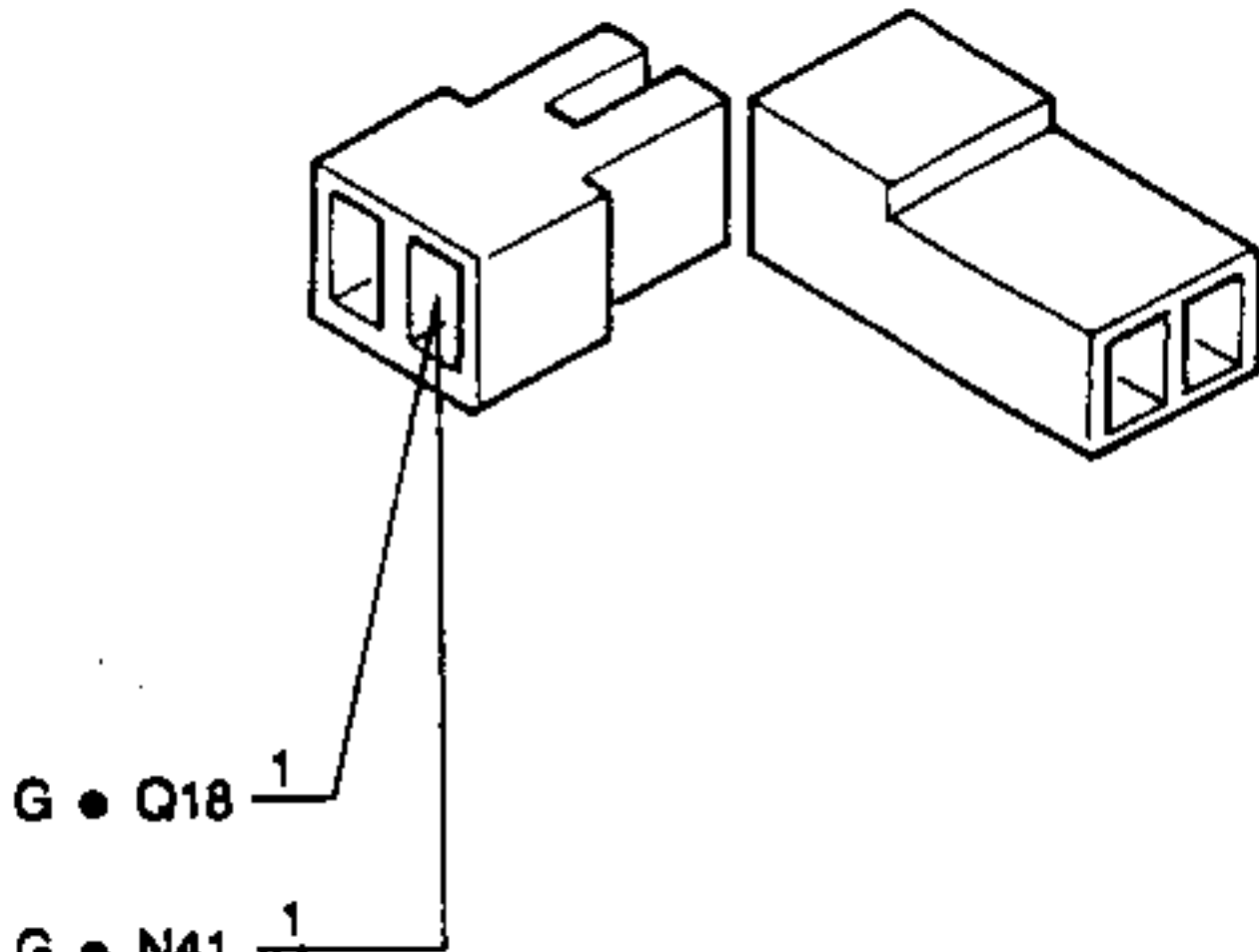


ELECTRICAL SYSTEM

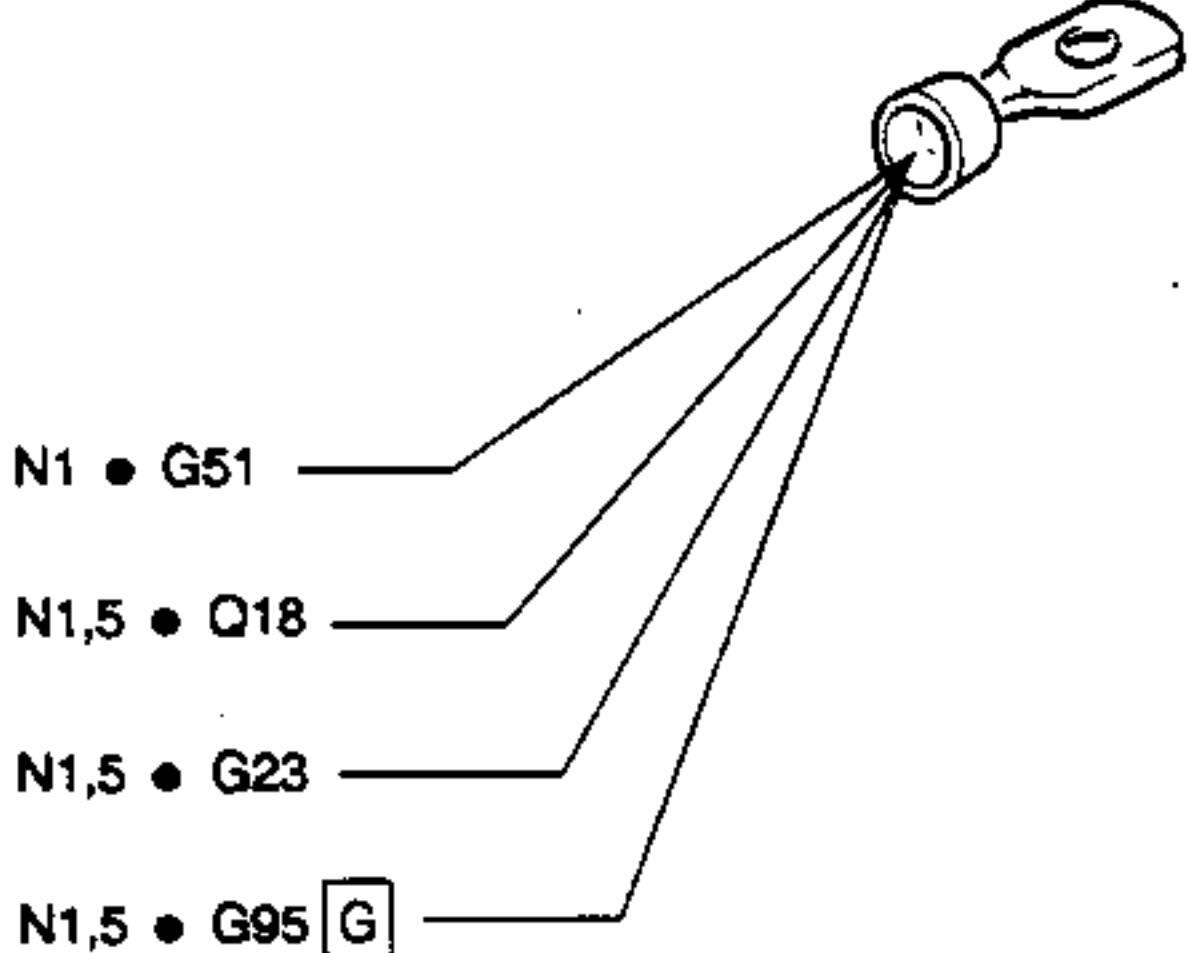
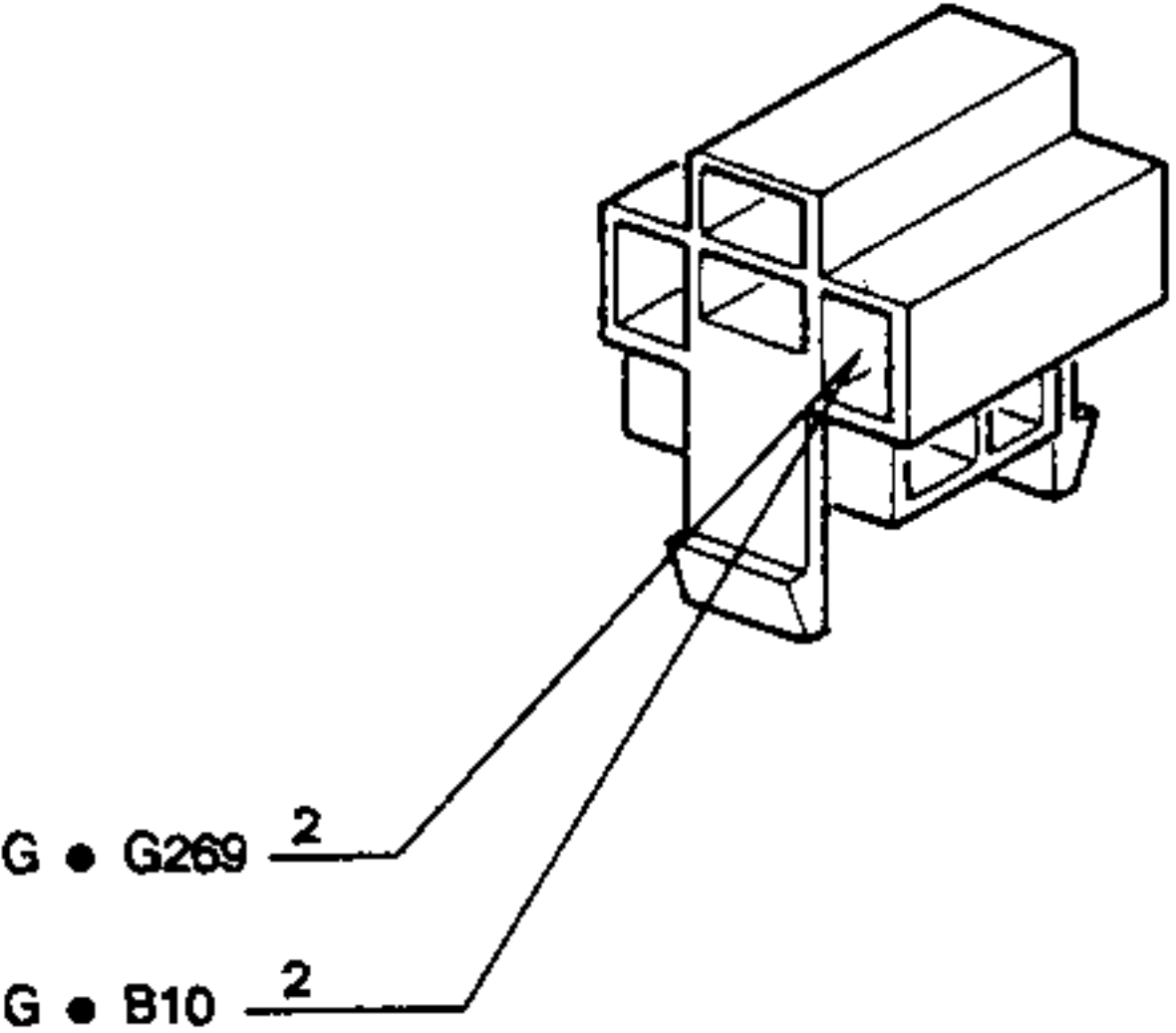
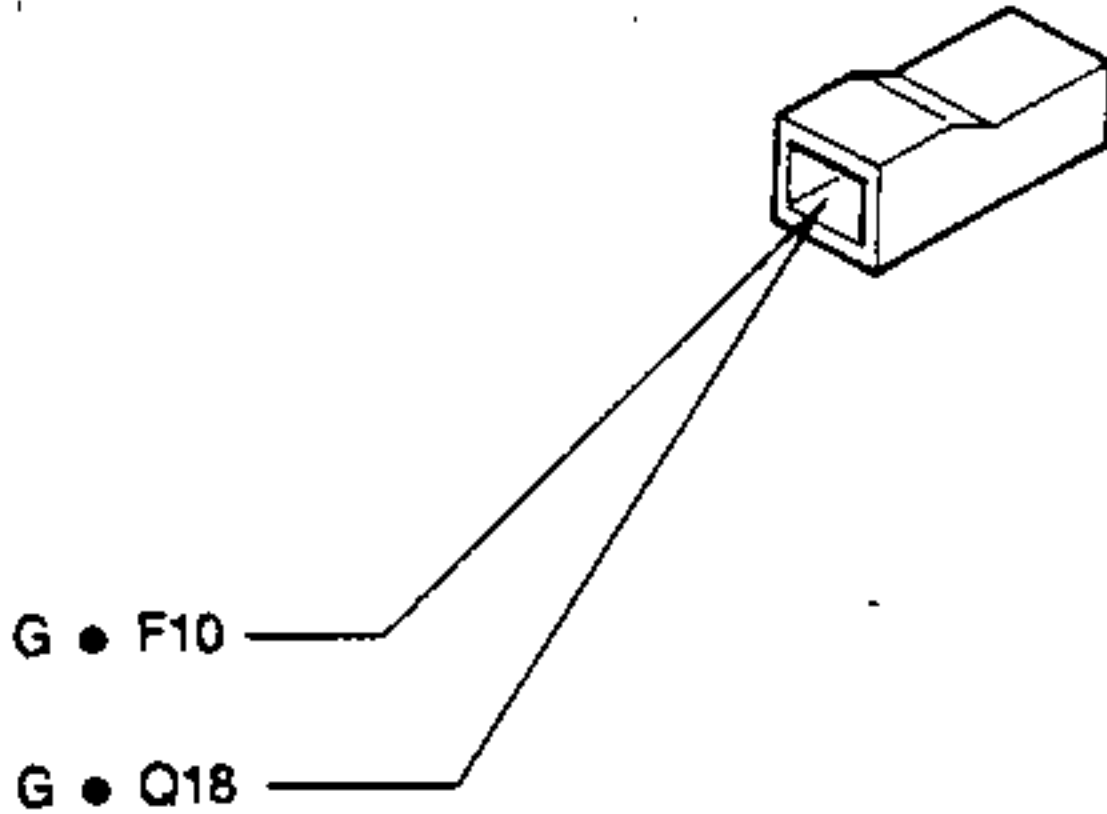
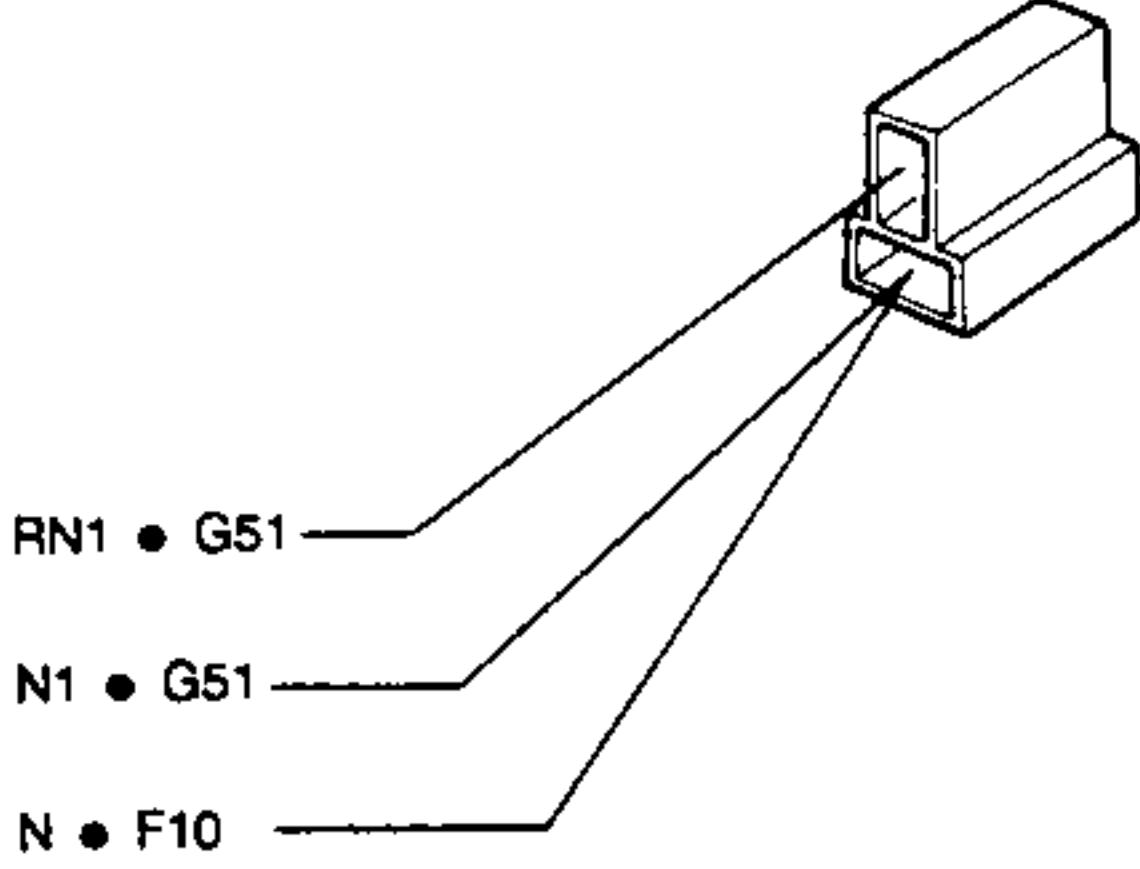
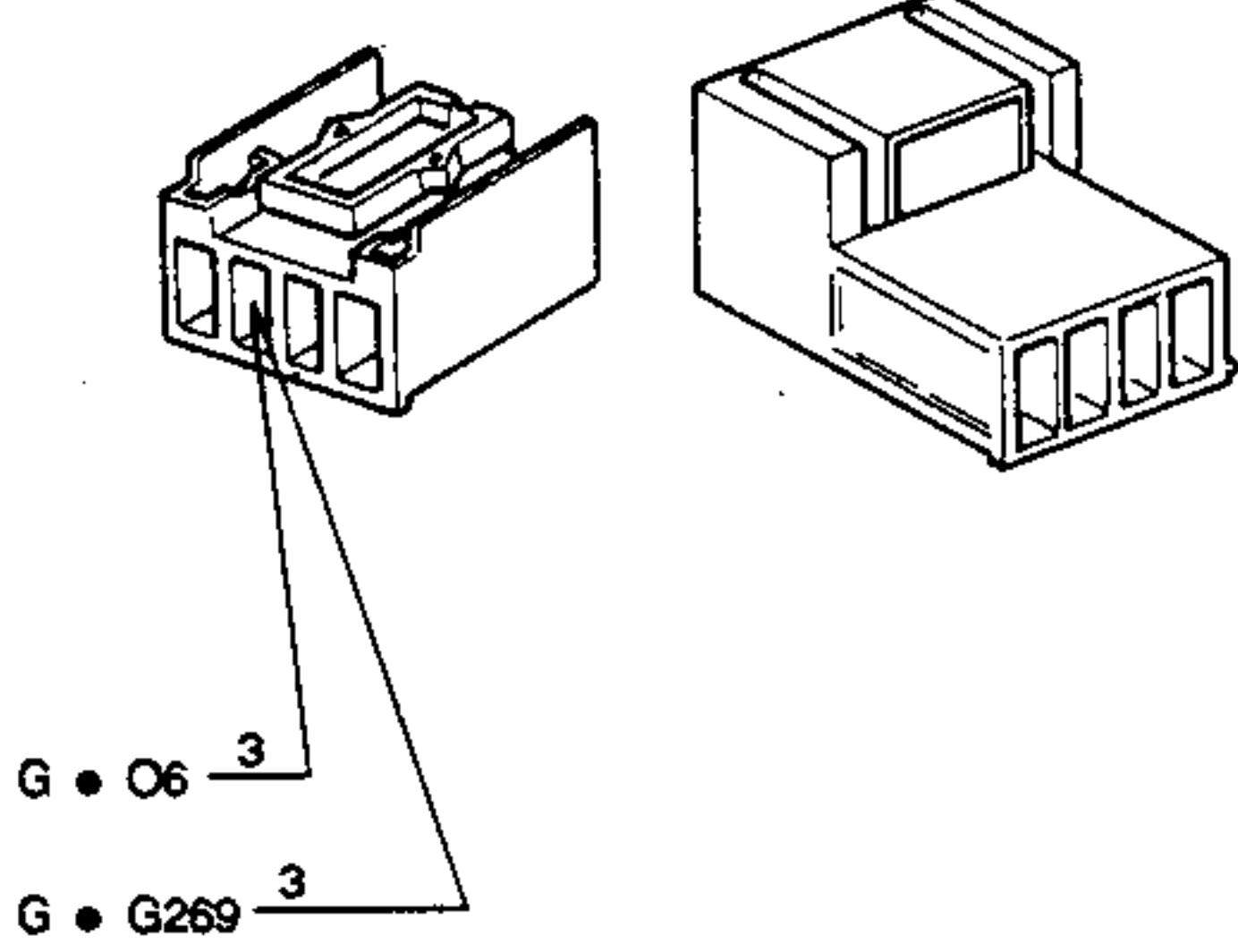
Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p style="text-align: right;">33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p style="text-align: right;">33.90.002</p>	
<p>Fog lamp control switch</p>	<p>B10</p>	<p>Turn signal switch unit</p>	<p>B68 A</p>
 <p>G • B10 8</p> <p>G • G95 D 8</p> <p>G • B10 5</p> <p>G • N41 5</p> <p style="text-align: right;">33.90.008</p>		 <p>R2,5 • G56 2</p> <p style="text-align: right;">33.90.027</p>	
<p>Turn signal switch unit</p>	<p>B68 D</p>	<p>Provision for car radio cables (O4)</p>	<p>G51</p>
 <p>G1,5 • G95 H 3</p> <p style="text-align: right;">33.90.027</p>		 <p>N1 • O6 4</p> <p>N1 • G283 4</p> <p>RN1 • O6 1</p> <p>RN1 • G95 H 1</p> <p style="text-align: right;">33.90.093</p>	

# ELECTRICAL SYSTEM

<b>Branch terminal board</b>  <p>R2,5 • B1 R2,5 • B68 [A] R10 • G95 (+) R10 • A1 (+)</p> <p style="text-align: right;">33.90.011</p>	<b>G56</b>	<b>Central fusebox (+)</b>  <p>R10 • G56</p> <p style="text-align: right;">33.90.006</p>	<b>G95</b>
<b>Central fusebox</b>  <p>G • G95 [D] 10 G • C10 [B] 10 G • G95 [D] 5 G • B10 5</p> <p style="text-align: right;">33.90.004</p>	<b>G95 [D]</b>	<b>Central fusebox</b>  <p>RN1 • F7 4 RN1 • G51 4 G1,5 • B68 [D] 3</p> <p style="text-align: right;">33.90.004</p>	<b>G95 [H]</b>
<b>Central service compartment earth</b>  <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>	<b>G143</b>	<b>Glove compartment lamp connection</b>  <p>G • Q18 1 G • N41 1</p> <p style="text-align: right;">33.90.013</p>	<b>G269</b>

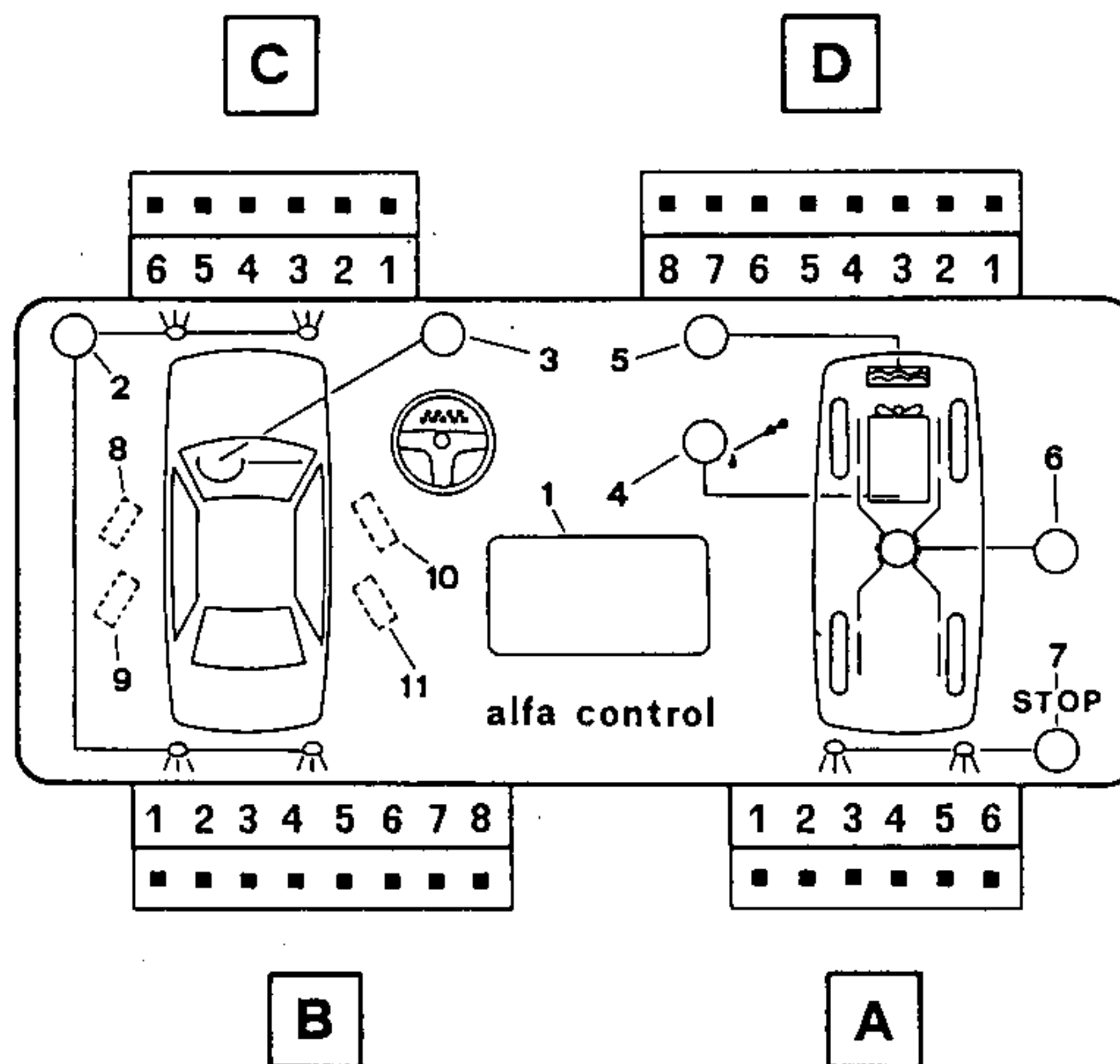
# ELECTRICAL SYSTEM

<p><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>  <p style="text-align: right;">33.90.001</p>	<p><b>Control unit lights on signal</b></p> <p style="text-align: right;"><b>N41</b></p>  <p style="text-align: right;">33.90.022</p>
<p><b>Cigar lighter</b></p> <p style="text-align: right;"><b>O6</b></p>  <p style="text-align: right;">33.90.015</p>	<p><b>Cigar lighter</b></p> <p style="text-align: right;"><b>O6</b></p>  <p style="text-align: right;">33.90.020</p>
<p><b>Heater</b></p> <p style="text-align: right;"><b>Q18</b></p>  <p style="text-align: right;">33.90.018</p>	



**ALFA CONTROL**

**Description**



**Connector A**

- Pin 1: Stop switch input
- Pin 2: Free
- Pin 3: Windscreen washer fluid level sensor (not used)
- Pin 4: Engine coolant level sensor
- Pin 5: Brake pad wear sensor
- Pin 6: + 50 (vehicle wiring)

**Connector C**

- Pin 1: Left stop light bulb
- Pin 2: Right stop light bulb
- Pin 3: Rear left sidelight bulb
- Pin 4: Rear right sidelight bulb
- Pin 5: Front right sidelight bulb
- Pin 6: Front left door sensor (not used)

**Warning lights**

- 1: General warning light indicating anomaly
- 2: Sidelights efficiency warning light
- 3: Warning light indicating Instrument panel warning light efficiency
- 4: Low engine oil level warning light
- 5: Low engine coolant level warning light
- 6: Brake pad wear warning light
- 7: Warning light indicating stop light efficiency
- 8: Warning light indicating front left door open (not used)
- 9: Warning light indicating rear left door open (not used)
- 10: Warning light indicating front right door open (not used)
- 11: Warning light indicating rear right door open (not used)

**Connector B**

- Pin 1: Brake fluid level sensor
- Pin 2: Fuel level sensor
- Pin 3: Dynamo
- Pin 4: Earth
- Pin 5: Engine oil level sensor
- Pin 6: Engine coolant maximum temperature sensor
- Pin 7: + Display lighting
- Pin 8: + General

**Connector D**

- Pin 1: Front left sidelight bulb
- Pin 2: Rear left door sensor (not used)
- Pin 3: Rear right door sensor (not used)
- Pin 4: Front right door sensor (not used)
- Pin 5: Engine oil level sensor
- Pin 6: Rear right and front left sidelights input below fuse
- Pin 7: Front right and rear left sidelight input below fuse
- Pin 8: Stop light input

The **ALFA CONTROL** electronic device permits an immediate centralized control of the most important parameters, circuits and services of the vehicle and engine. The control is carried out in two phases:

- Engine off
- Engine running

### CONTROL WITH ENGINE OFF

By rotating the ignition key from "GARAGE" to "MARCIA" the following warning lights are illuminated on the instrument panel:

- engine coolant maximum temperature;
- generator;
- fuel reserve;
- insufficient brake fluid.

The Alfa Control will signal the presence of a malfunction by illuminating the red general warning lamp together with the warning lamp indicating the anomalous service both of the warning lamp indicating the anomalous service both of which are located on the dashboard. During this phase the device controls:

- the efficiency of the instrument panel warning lamps;
- sidelights, fuses and relevant electrical connections;
- stop lights, fuse, switch under brake pedal and relative electrical connections;
- brake pad wear;
- engine coolant level;
- engine oil level.

The examination of the individual functions follows.

### Efficiency of the instrument panel warning lights

In the event of one of the four warning lamps burning out (engine coolant maximum temperature, dynamo, fuel reserve, low brake fluid level) this is signalled, in addition to

the warning light being off, by illumination of the general and relative warning lights on the Alfa Control display (indicating the faulty service).

However the same alarm signal may occur when the four warning lights on the instrument panel are illuminated.

This indicates an anomaly in one of the four parameters controlled by the circuits relative to the warning lights on the instrument panel. To identify the anomalous parameter, start the engine and wait for approximately 10 seconds (end of the check cycle), so that the faulty service identified by a continuously illuminated warning light is visualized on the instrument panel.

It is however necessary to point out that of the four controlled parameters only the dynamo connections are comparable to switches which are normally closed under rest conditions.

As a result any alarm signal on the Alfa Control is given not only by the interruption of the sensor but also by interruption of the relative connecting cables.

To cancel the alarm signals relative to these four parameters the anomaly should be eliminated.

### Sidelights, fuses and relative electrical connections

It is possible to check the efficiency only when the system is activated, signalled by the illumination of the sidelights warning light on the instrument panel.

The lamps are connected under two different fuses forming in this way two branches of supply.

Branch A = Front right lamp with rear left lamp.

Branch B = Front left lamp with rear right lamp.

The Alfa Control checks the interruption in the electrical connections and the extinguishing of a single bulb on the two branches.

The simultaneous burning out of the two protection fuses also gives rise to an alarm condition.

The simultaneous burning out of the two fuses does not give rise to an alarm but this situation is signalled by the sidelight warning light being out on the instrument panel.

### Stop lights, fuses, switch under brake pedal and relative electrical connections

The electrical circuit is formed by a protecting fuse, a switch (activated by the brake pedal) and the supply to the bulbs passing through the Alfa Control.

With the brake pedal released the fuse is connected, by way of the switch, to the Alfa Control.

This enables the presence of voltage below the fuse to be detected and therefore to establish if the fuse has burnt out.

Depressing the brake pedal the switch switches + 12V below the fuse and, passing through the Alfa Control, to the stop-light bulbs which receive separate power supplies so that an efficiency check can be made through the comparison of absorption between one and the other. The simultaneous interruption of both bulbs is not signalled.

### Brake and wear

Excessive brake pad wear is detected by a sensor with contacts which are normally open. The user is therefore not advised of an interruption in the sensor or relative connecting cables.

### Engine coolant level

The quantity of fluid contained in the reservoir is detected by a micro-switch activated by a float.

Under normal conditions the micro-switch contact is closed but, when the liquid falls below the minimum level, the contact is opened generating an alarm signalled by illumination of the general warning light and the low engine coolant level warning light on the display.

The alarm condition (which is also signalled by any interruption in the sensor or relative connecting cable), is memorized and remains also after the check phase, that is, with the engine running.

### Engine oil level

The engine oil level sensor is formed by a bimetal strip (contact) with a series resistance. The two ends of the electrical circuit connected to the Alfa Control, within two seconds from rotation of the ignition key to the "MARCIA" position, supply enough current to permit the bimetal strip to break contact if the sensor is in air (low oil).

The alarm signal given by the illumination of the general warning light and the low oil level warning light.

Under normal conditions though, the sensor is immersed in engine oil and the contacts are closed (the oil acts as a heat dissipator).

In this case too, as was seen with regard to the engine coolant level, the alarm condition (also signalled by an interruption in the sensor or relative connection cable) is memorized and remains also after the check phase, that is with the engine running.

From the moment that the ignition key is rotated from "GARAGE" to the end of the timing phase, a period of time elapses which is called the "check phase".

After the check phase, that is with the engine running, the following parameters and services continue to be monitored:

- Temperature of engine coolant;
- Brake fluid level;
- Dynamo.

Any anomaly in one or more of these services is signalled by the illumination of the red general warning light on the Alfa Control device and the relative warning light on the instrument panel.

- Sidelights and relative fuses;
- Stoplights, fuse and relative switch;
- Brake pad wear;
- Engine coolant temperature.
- Engine oil level;
- Fuel reserve.

Any anomaly in one or more of these services is signalled by the illumination on the Alfa Control device of the red general warning light and the warning light relative to the anomaly.

### CHECKS CARRIED OUT WITH ENGINE RUNNING

After starting the engine, from the moment the ignition key is released, a timer circuit is activated that extinguishes the four optical indicators (warning lights) on the instrument panel after 7.5 to 12.5 seconds (except those indicating an anomaly).

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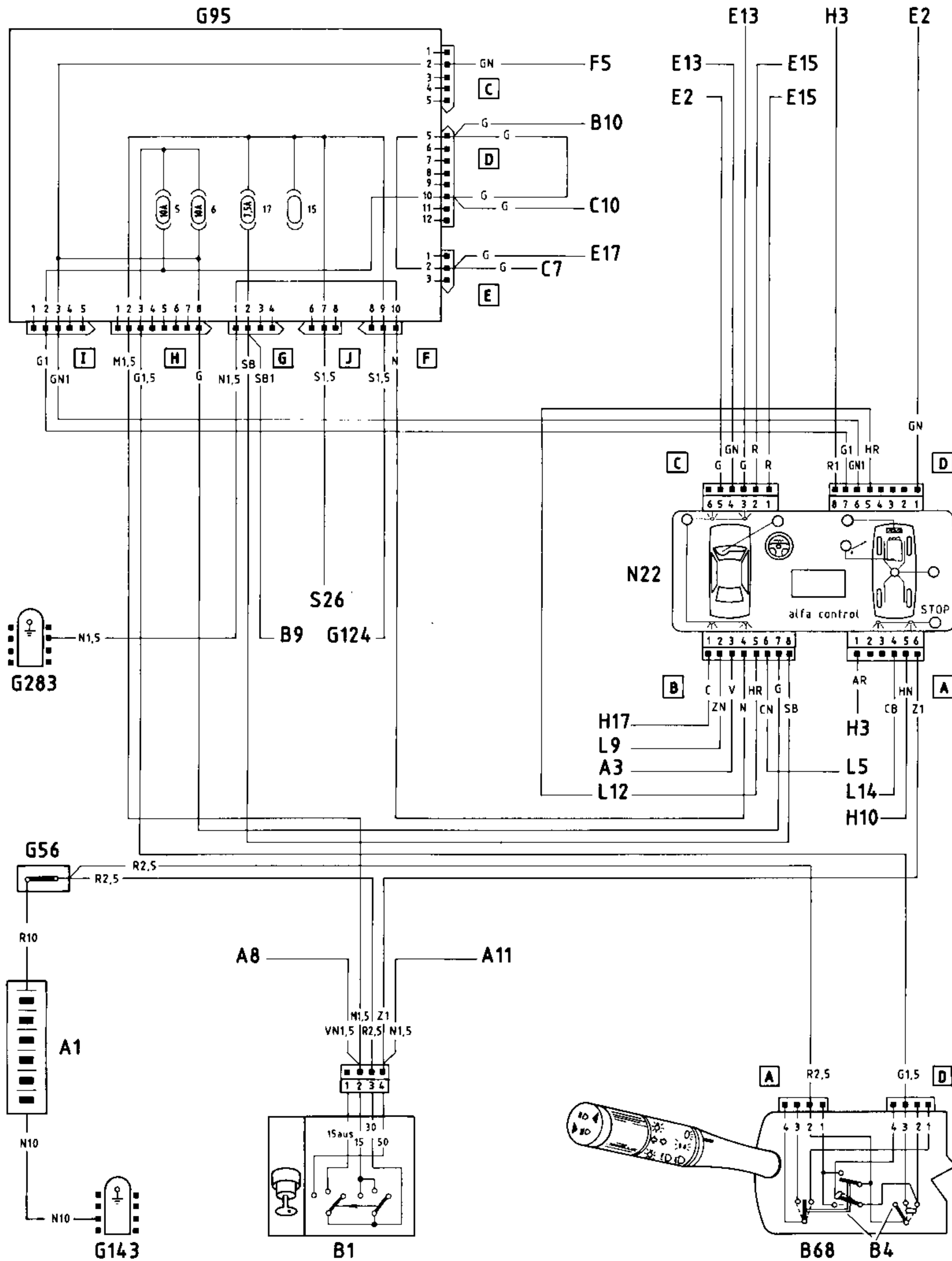
The wiring diagrams relative to the ALFA CONTROL are given under the individual services which it controls.

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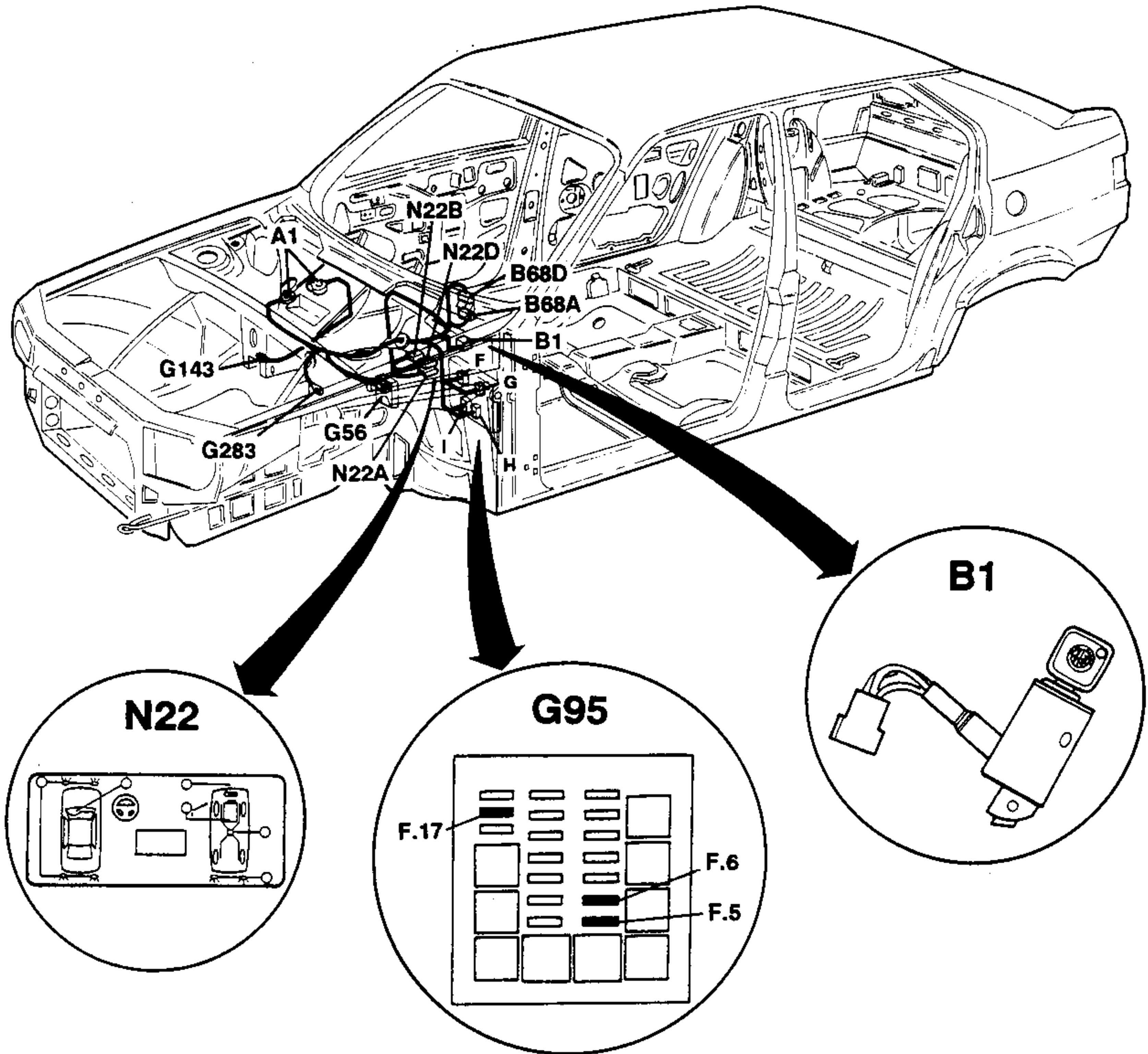
# ELECTRICAL SYSTEM

## Wiring diagram

### ALFA CONTROL

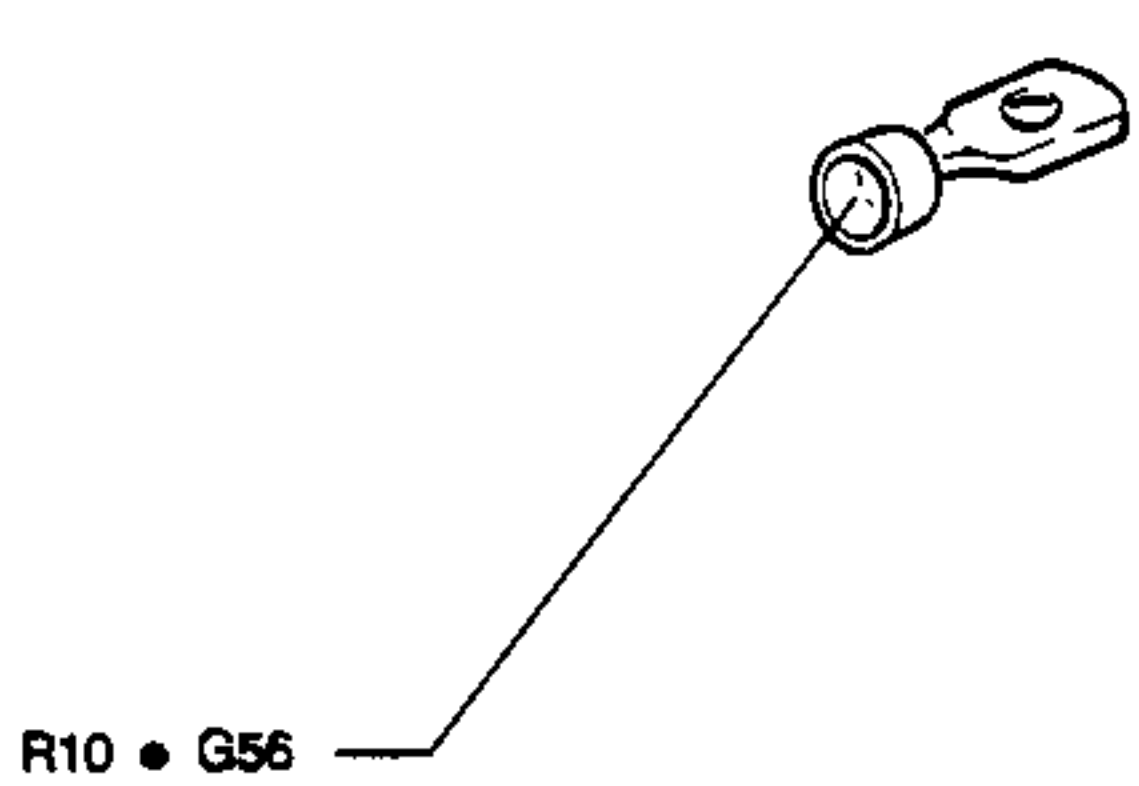
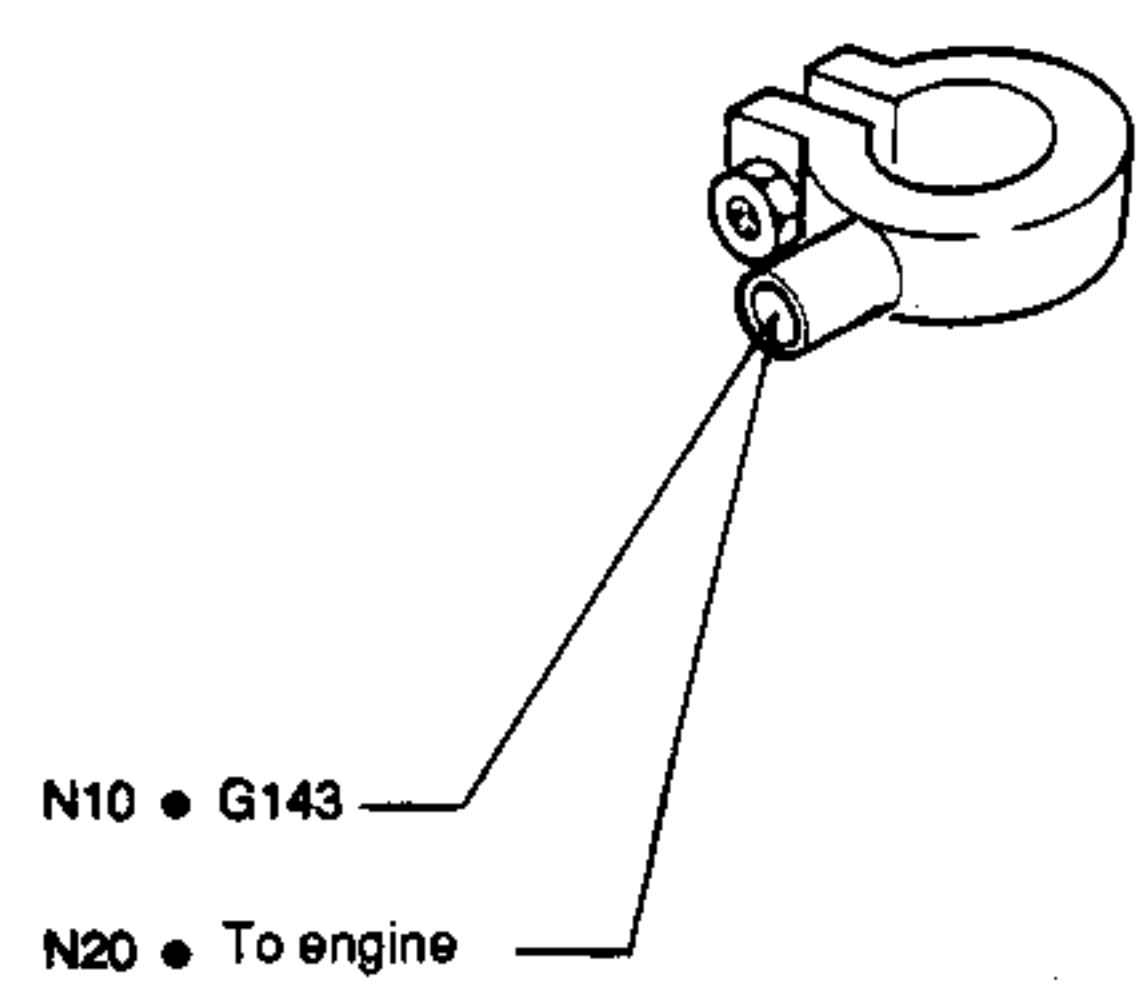
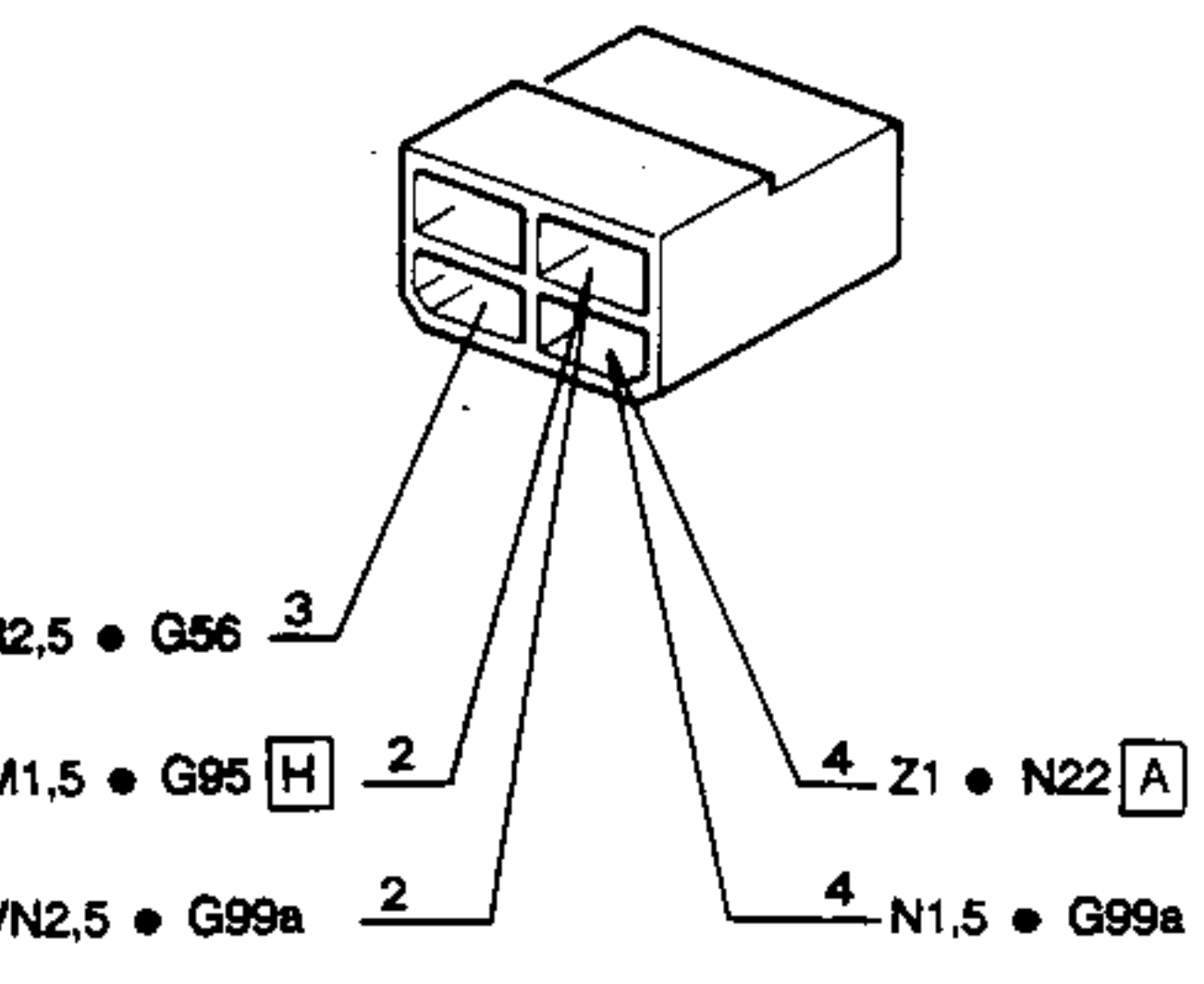
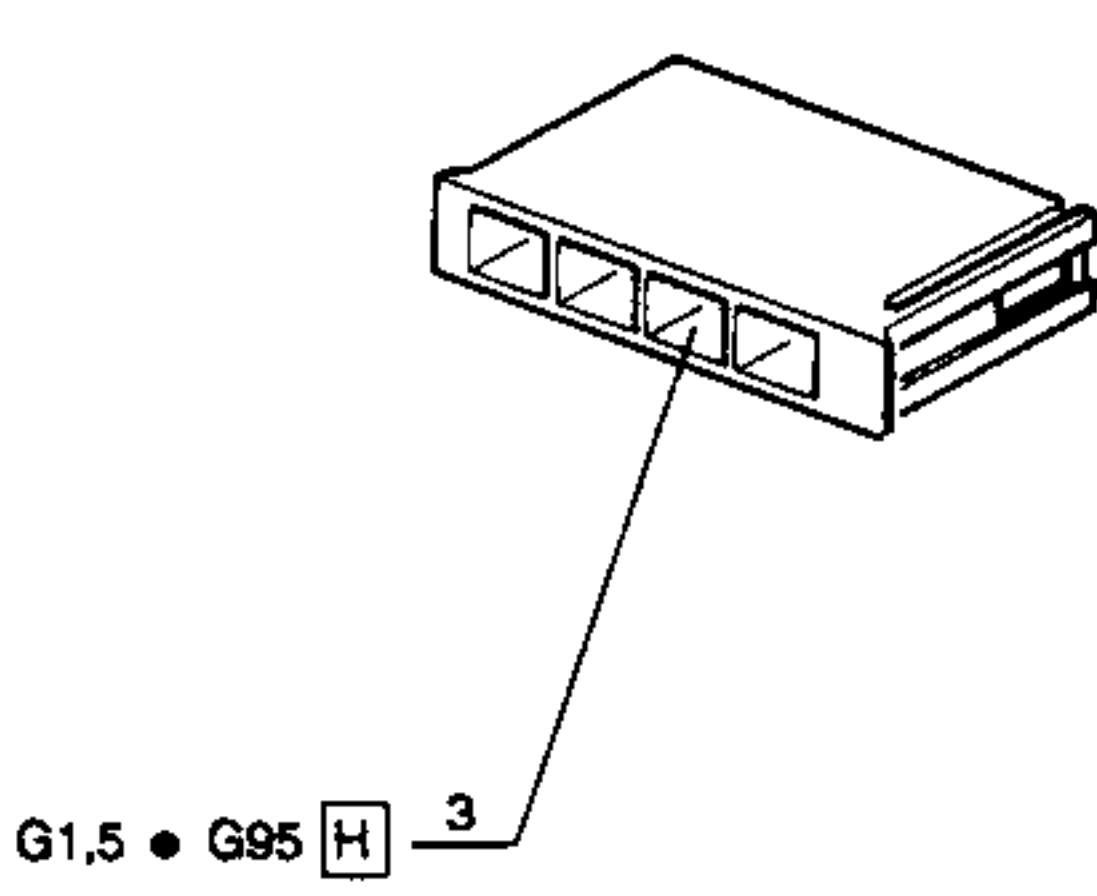
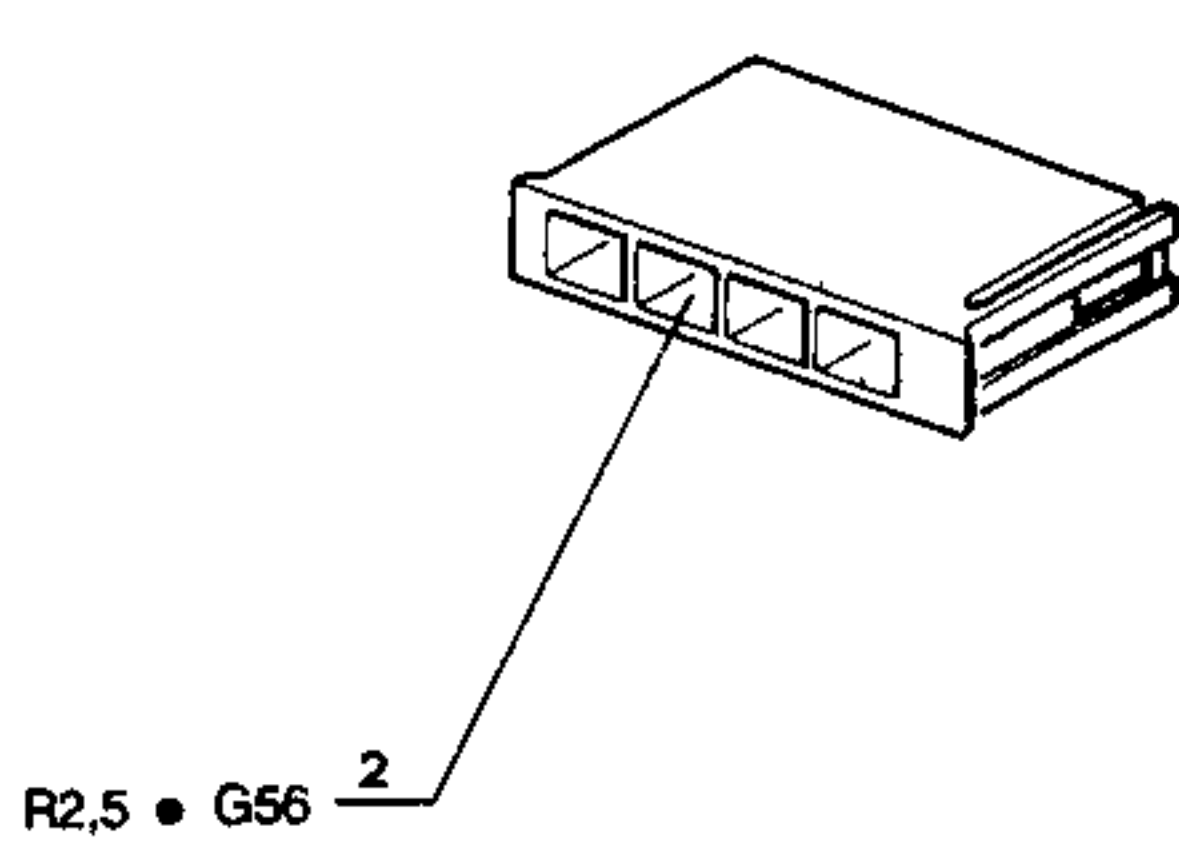
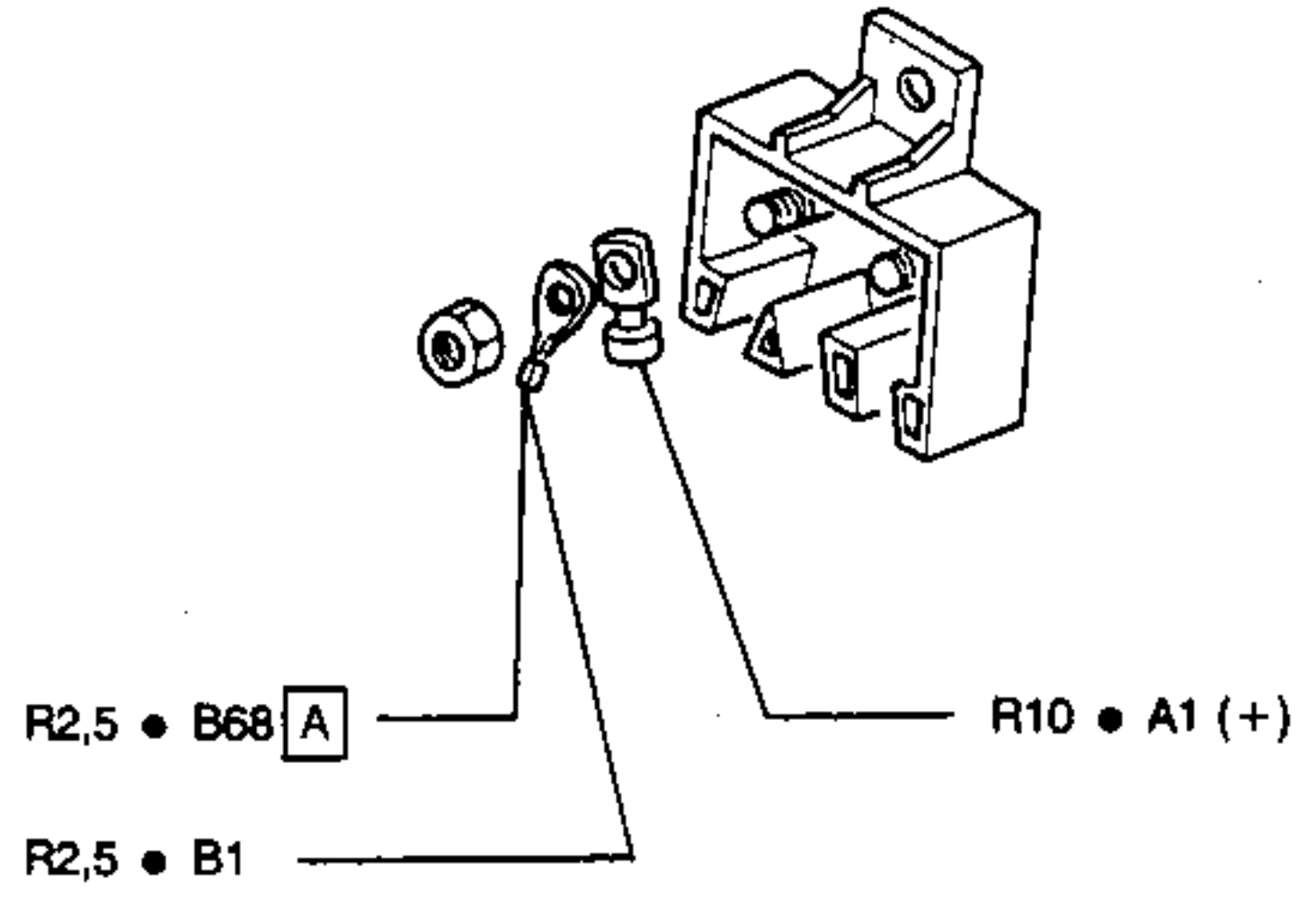


Wiring

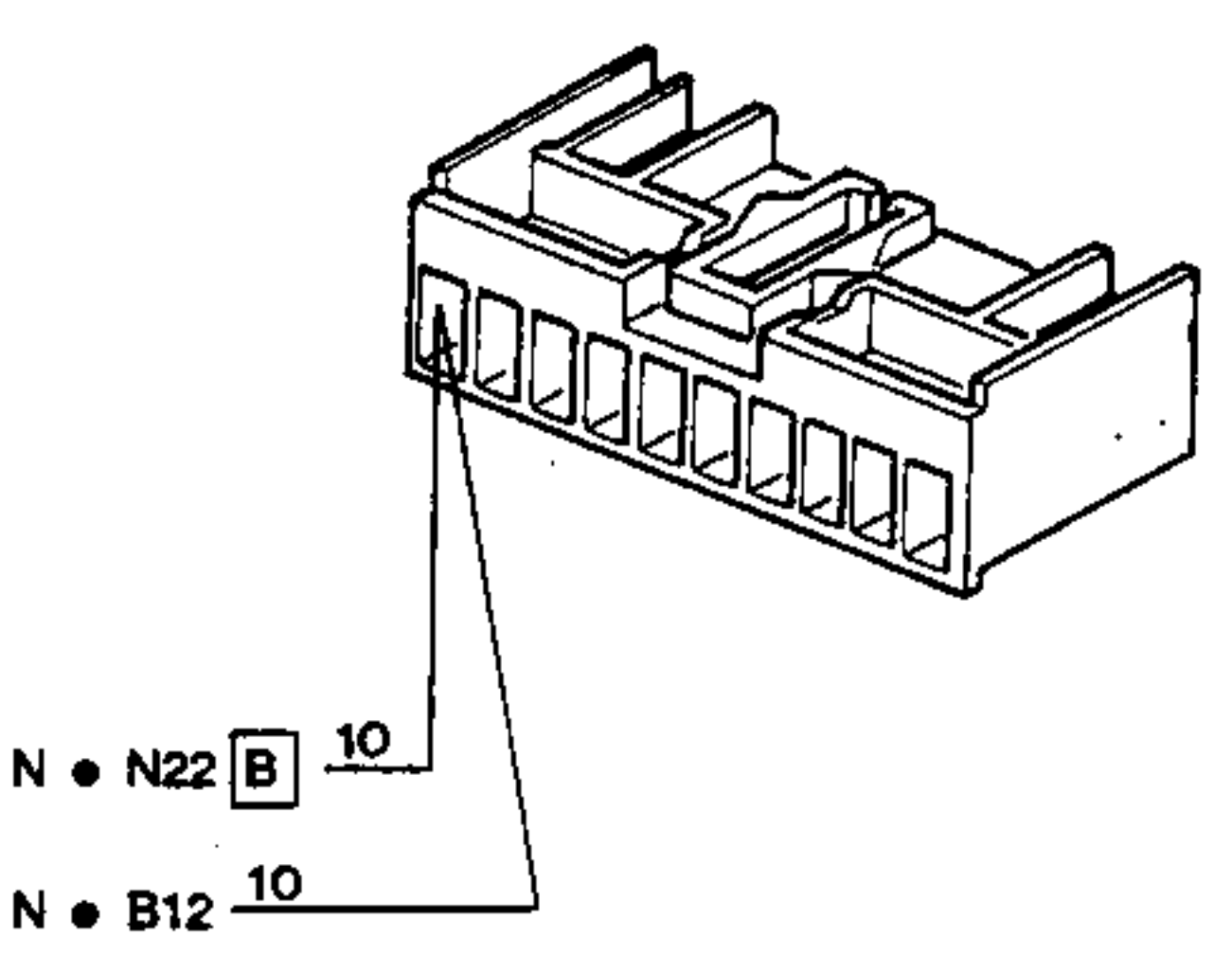
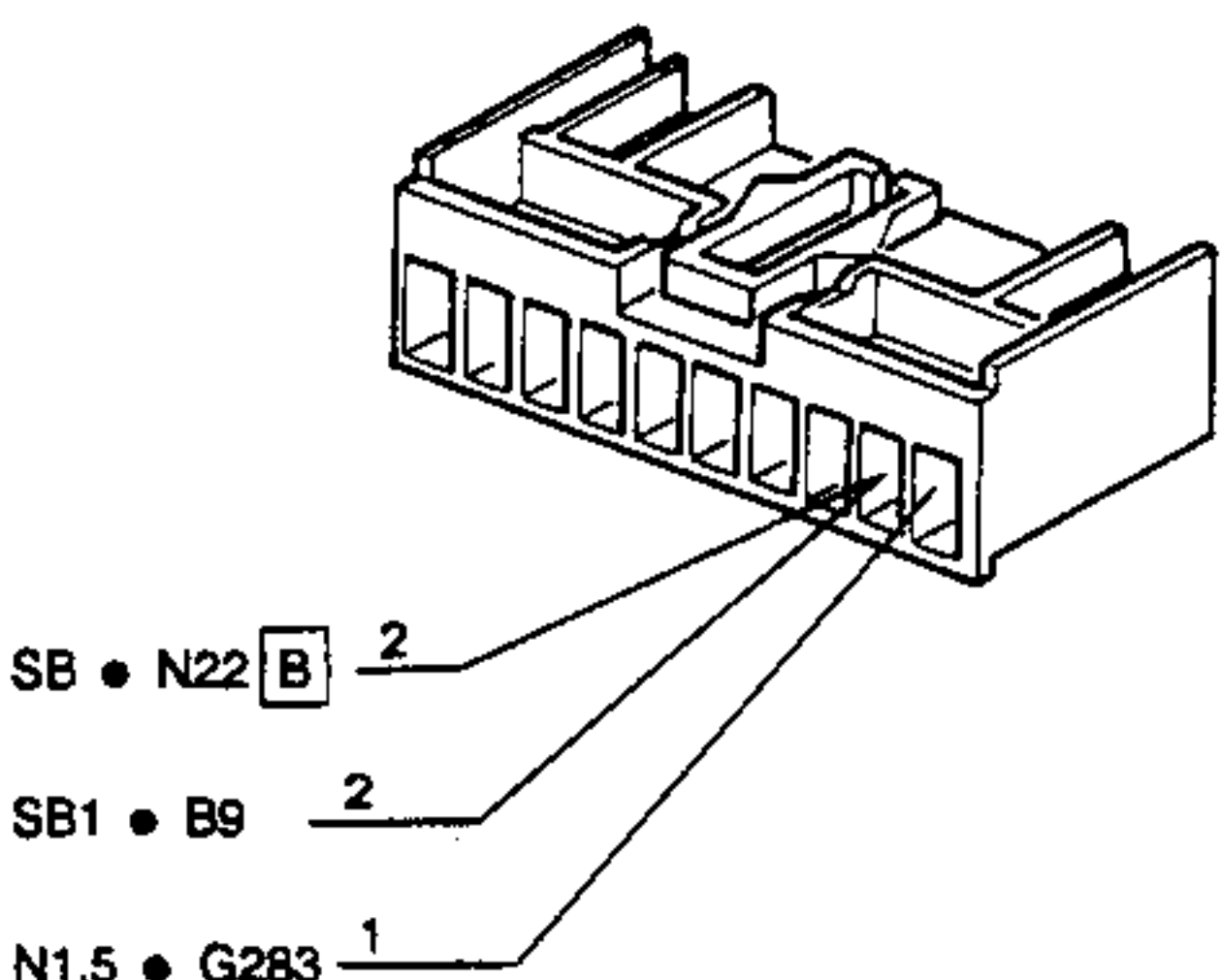
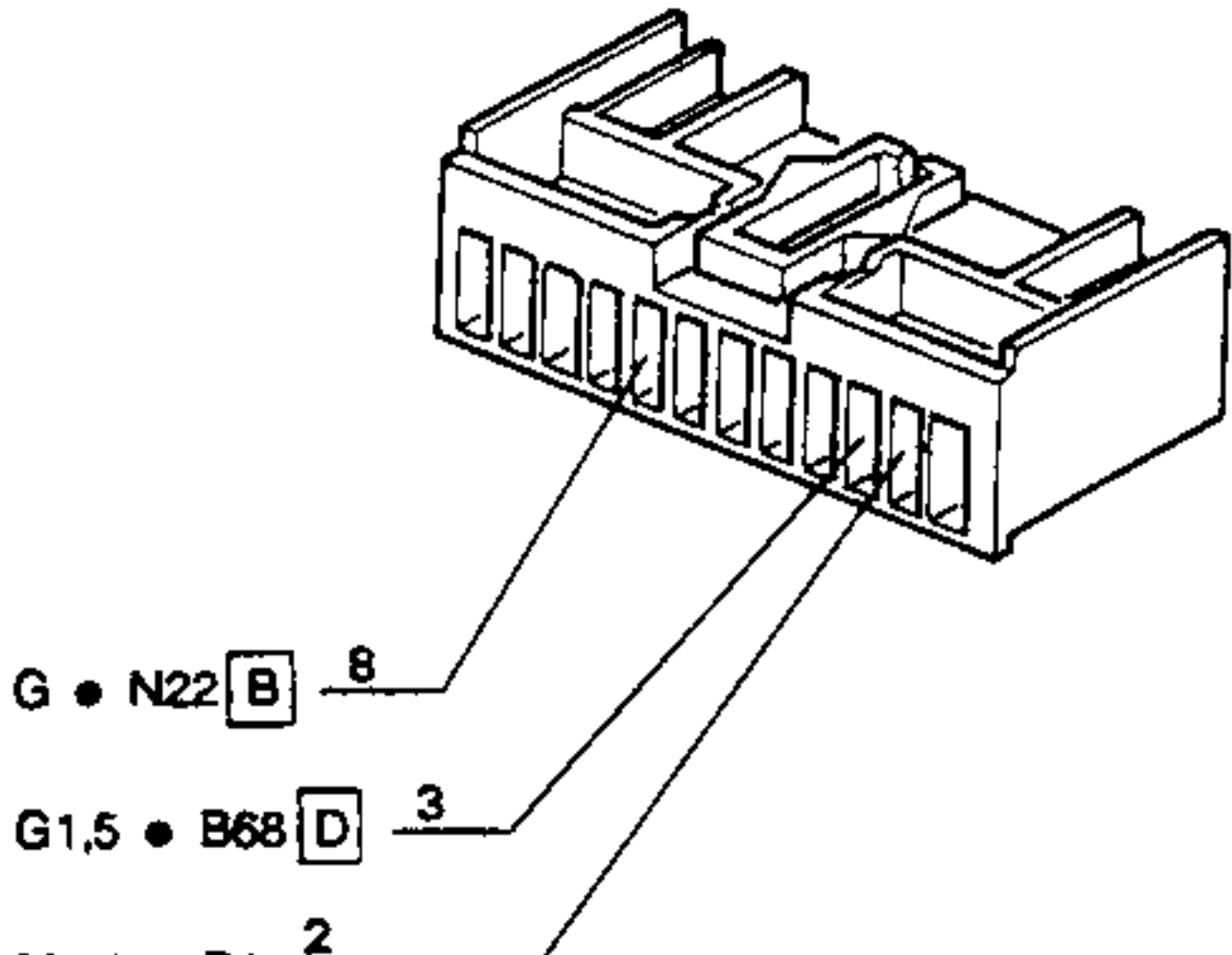
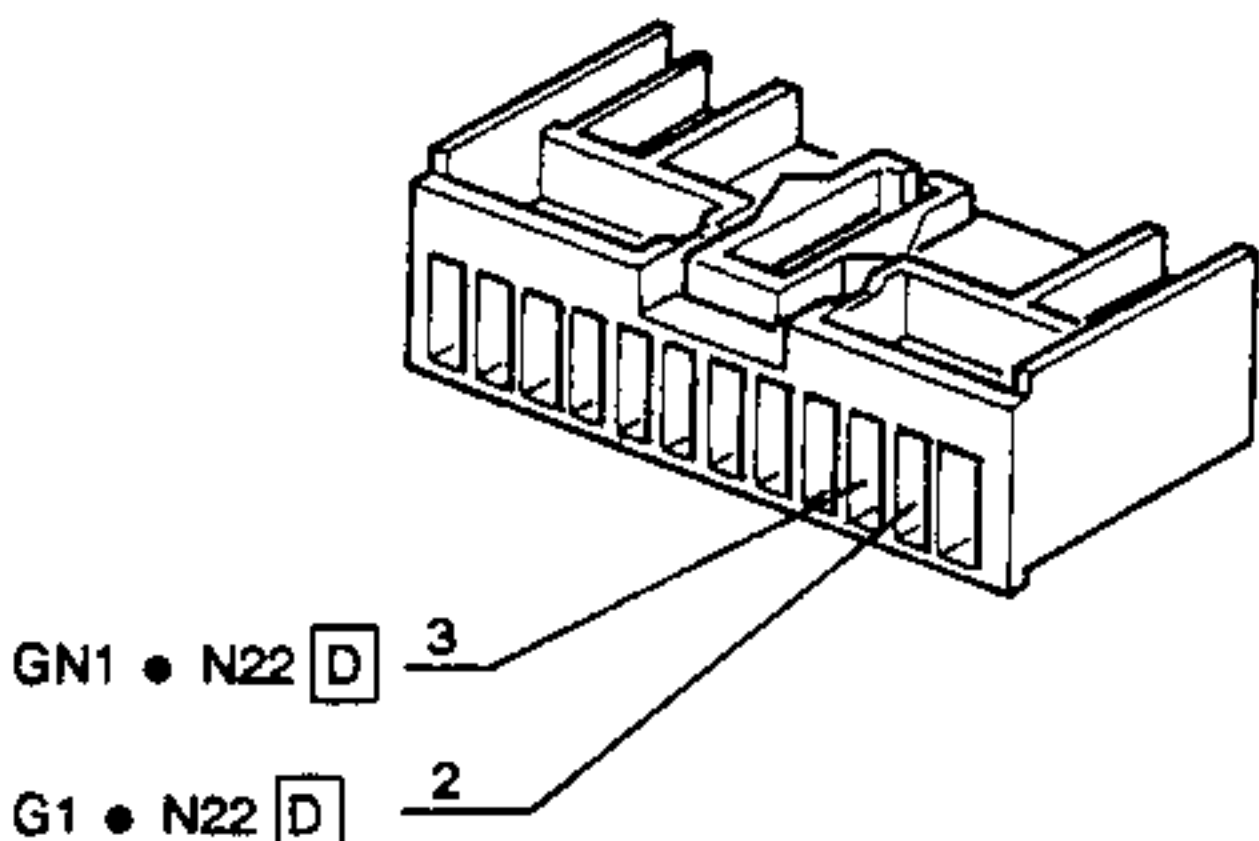
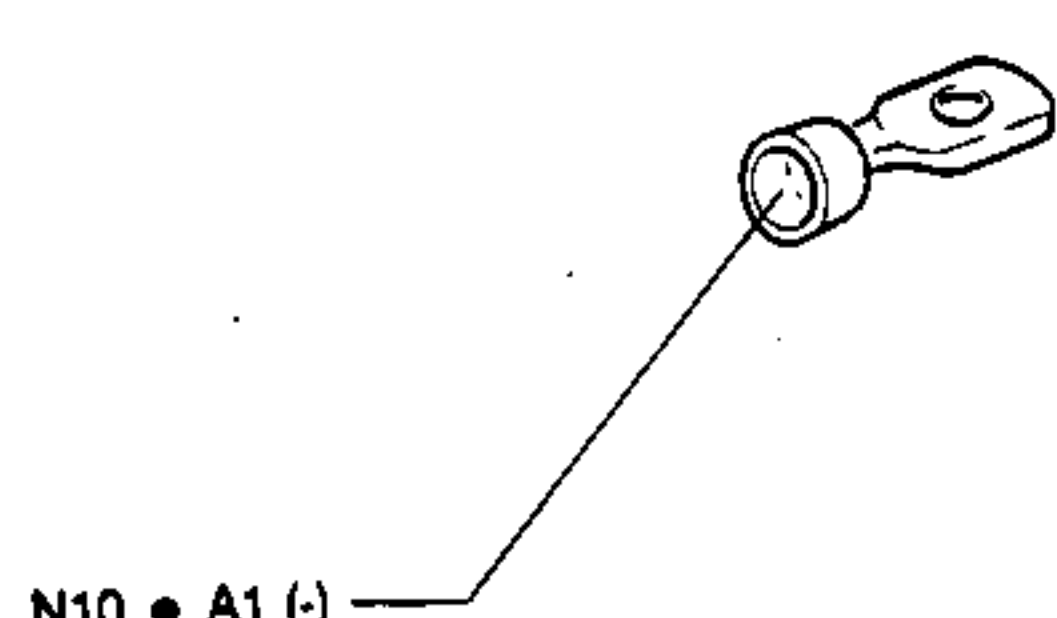
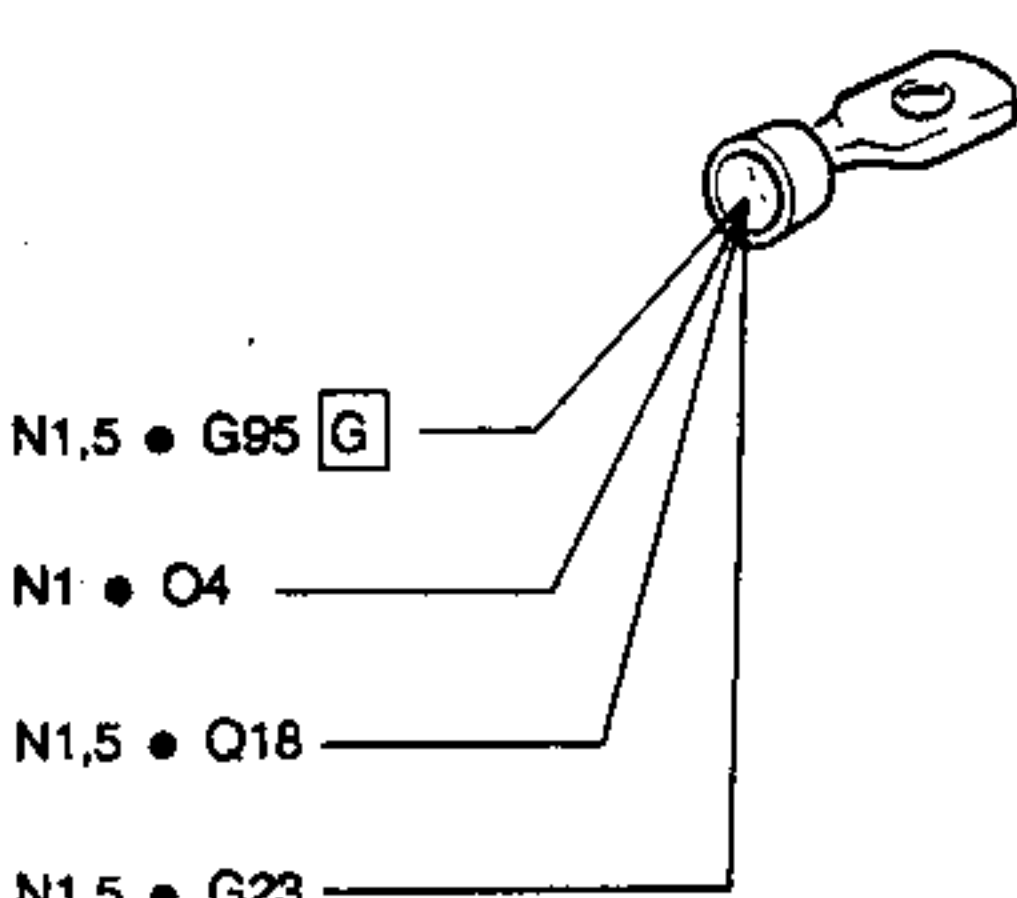


# ELECTRICAL SYSTEM

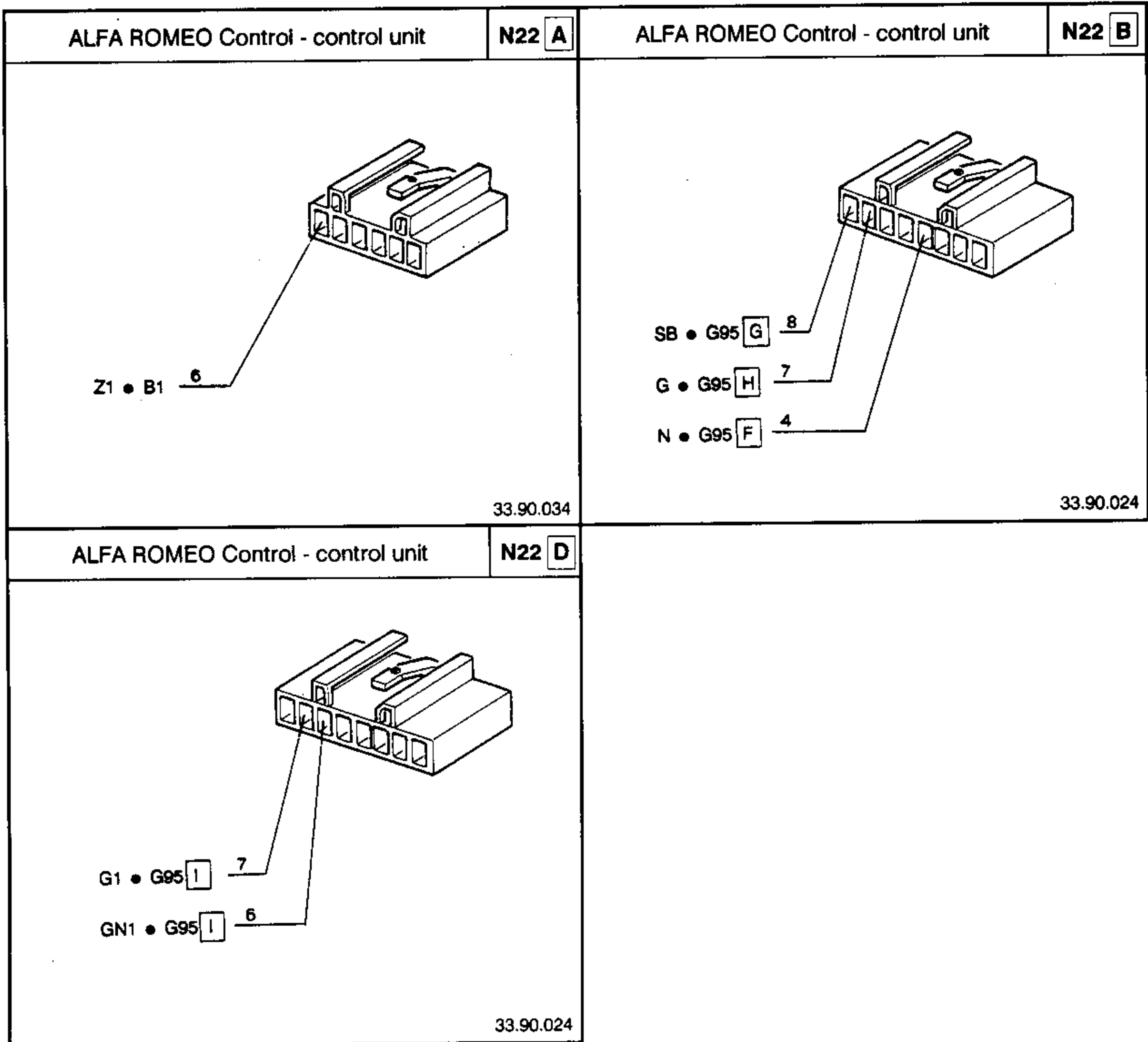
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Turn signal switch unit	B68 A
 <p>R2,5 • G56 3 M1,5 • G95 H 2 VN2,5 • G99a 2 4 Z1 • N22 A 4 N1,5 • G99a</p>	33.90.031	 <p>G1,5 • G95 H 3</p>	33.90.027
Turn signal switch unit	B68 D	Branch terminal board	G56
 <p>R2,5 • G56 2</p>	33.90.027	 <p>R2,5 • B68 A R2,5 • B1 R10 • A1 (+)</p>	33.90.066

# ELECTRICAL SYSTEM

Central fusebox <b>G95 F</b>	Central fusebox <b>G95 G</b>
 <p style="margin-top: 20px;">                 N ● N22 <span style="border: 1px solid black; padding: 2px;">B</span> 10                  N ● B12 10             </p> <p style="text-align: right; font-size: small;">33.90.005</p>	 <p style="margin-top: 20px;">                 SB ● N22 <span style="border: 1px solid black; padding: 2px;">B</span> 2                  SB1 ● B9 2                  N1,5 ● G283 1             </p> <p style="text-align: right; font-size: small;">33.90.005</p>
Central fusebox <b>G95 H</b>	Central fusebox <b>G95 I</b>
 <p style="margin-top: 20px;">                 G ● N22 <span style="border: 1px solid black; padding: 2px;">B</span> 8                  G1,5 ● B68 <span style="border: 1px solid black; padding: 2px;">D</span> 3                  M1,5 ● B1 2             </p> <p style="text-align: right; font-size: small;">33.90.004</p>	 <p style="margin-top: 20px;">                 GN1 ● N22 <span style="border: 1px solid black; padding: 2px;">D</span> 3                  G1 ● N22 <span style="border: 1px solid black; padding: 2px;">D</span> 2             </p> <p style="text-align: right; font-size: small;">33.90.004</p>
Central service compartment earth <b>G143</b>	Earth on left service compartment <b>G283</b>
 <p style="margin-top: 20px;">                 N10 ● A1 (-)             </p> <p style="text-align: right; font-size: small;">33.90.001</p>	 <p style="margin-top: 20px;">                 N1,5 ● G95 <span style="border: 1px solid black; padding: 2px;">G</span>                  N1 ● O4                  N1,5 ● Q18                  N1,5 ● G23             </p> <p style="text-align: right; font-size: small;">33.90.001</p>

ELECTRICAL SYSTEM





## FOUR-WHEEL DRIVE 33 1.7 IE 4 x 4

### Description

The new system of electronic control for the engagement of four-wheel drive is formed by a rear differential connected to the power unit - transmission by way of a drive shaft equipped with an **electromagnetic coupling (M22)** controlled by an **electronic control unit (N50)** located in the luggage compartment. The system of engagement/disengagement of the four-wheel drive is of the electromagnetic type and must be activated with the engine running, at any speed, by acting on the **retaining switch control (B72)** situated on the central console. Insertion of four-wheel drive is signalled by the **4x4 warning light (D33)** situated next to the switch.

The system optimizes operation under all driving conditions by a series of sensors; four-wheel traction being automatically disengaged when safety and reliability decrease:

- **safety braking characteristic:** after having obtained the consensus of the two **stop switches (H3 - H49)**, if a deceleration of 0.2 g is exceeded, four-wheel drive is automatically disengaged. Once the vehicle has been brought to a halt, four-wheel drive is re-engaged automatically 0.4 seconds after the release of the two stop switches while, when the vehicle is in movement, the time may vary between 0.8 and 11.6 seconds.
- **anti-disengagement characteristic:** based on the monitoring of magnetic disturbance which results when the teeth of the coupling do not engage. The sensor is a **coil (L42)** situ-

ated near the coupling.

This safety characteristic functions both on switch engagement and by engagement after the brake pedal has been released following intervention of the deceleration protection.

If, after 100 ms from the coupling signal 8 teeth are not engaged, the safety function prevents coupling. Coupling is then repeated every 0.6 seconds up to 16 times.

If the coupling is still not engaged it is necessary to press the switch again.

- If the **supply voltage is less than 10V** when the coupling is engaged, the electronic control interrupts the command to the coupling without the failure warning light (D32) being illuminated, permitting automatic re-engagement as soon as the voltage exceeds 10V.

**A system failure warning lamp (D32)** is situated between the four-wheel drive control switch (B72) and the 4x4 warning lamp (D33). Both the warning lamps are illuminated for 1.5 seconds after rotation of the ignition key to the "MARCIA" position.

The system is equipped with an **autodiagnosis** characteristic and diagnostic data is transmitted through the **Alfa Tester** which is able to signal (together with the system failure warning lamp) the following anomalies:

- **Absence of Speedometer signal.** If with four-wheel drive engaged, the control unit does not receive the speedometer signal for a period of over 15 seconds,

four wheel drive is disengaged by depression of the brake pedal. After approximately 0.4 seconds from release of the brake pedal, four-wheel drive is re-engaged. This strategy continues until the speedometer signal reaches the control unit after which the system returns to disengagement after deceleration. Absence of the speedometer signal does not illuminate the system failure warning light.

#### - **Absence of stop signal.**

The control unit is pre-set to receive the signals from two switches acting contemporaneously and connected to the brake pedal. In case of a malfunction of either (or their fuses), the system failure warning light is illuminated. The control of the stop switches is carried out when the vehicle is in movement. From the moment that a discrepancy between the two stop signals is detected, a four-second timer is activated. After the four seconds have elapsed, if the two stop signals are not equal, only the first braking anomaly is counted. This procedure is repeated eight times (in the event of signal dissymmetry). At the 9th braking anomaly the system enters in failure and the relative warning lights are illuminated and the coupling is disengaged (if inserted). If on the other hand during the diagnostic phase the symmetry between the two stop signals is restored the count of the braking anomalies is set to zero and the system is set a new control.

The presence of the second stop switch is an additional safety device necessary when considering the danger caused by the traction failing to disengage as a result of malfunction of the fuse or normal stop switch.

As a rule it is the first of the two switches that closes gives the consensus for the calculation of deceleration.

For re-engagement of the traction both switches must be released.

In the event of an anomaly, engagement of the coupling is possible only after the vehicle has been brought to a halt after having released and once again pressed the 4x4 button.

In this case as soon as the brake pedal is depressed the coupling disengages once again without calculating the deceleration.

The system failure warning light however continues to be illuminated.

- **Interruption of anti-disengagement coil.**

The control unit sends a signal to the sensor so that a return signal is obtained verifying the continuity of the connection even when disengagement is not detected.

If it is interrupted, the system failure warning light is illuminated and the supply to the part concerning power supply and consequently to the coupling is interrupted.

- **Short circuit or interruption of the 4x4 coupling coil.**

Also in this case the coil is continuously monitored by the control unit and in both cases (short-circuit or interruption), the system failure warning light is illuminated and the supply to the part concerned with power supply is interrupted.

The four-wheel drive is obviously disengaged.

- **Anomaly in the parts concerned with power supply.**

Regarding the internal parts of the control unit.

In the event of an anomaly in one of these, the control unit illuminates the system failure warning light and interrupts the supply to the parts concerning power supply.

- **Missing or burnt out system failure warning lamp.**

This anomaly can be detected when the ignition key is rotated from "GARAGE" to "MARCIA" as the lamp should come on for 1.5 seconds.

With the system failure warning lamp burnt out or missing four-wheel drive is disengaged.

- **Missing or burnt out 4x4 warning lamp.**

Also in this case, as for the system failure warning lamp, any anomaly can be detected during rotation of the ignition key to the "MARCIA" position as the lamp should come on for 1.5 seconds.

When the 4x4 warning lamp is burnt out or missing, four-wheel drive is disengaged and the system failure warning light is illuminated.

- **Short circuit or interruption in safety relay.**

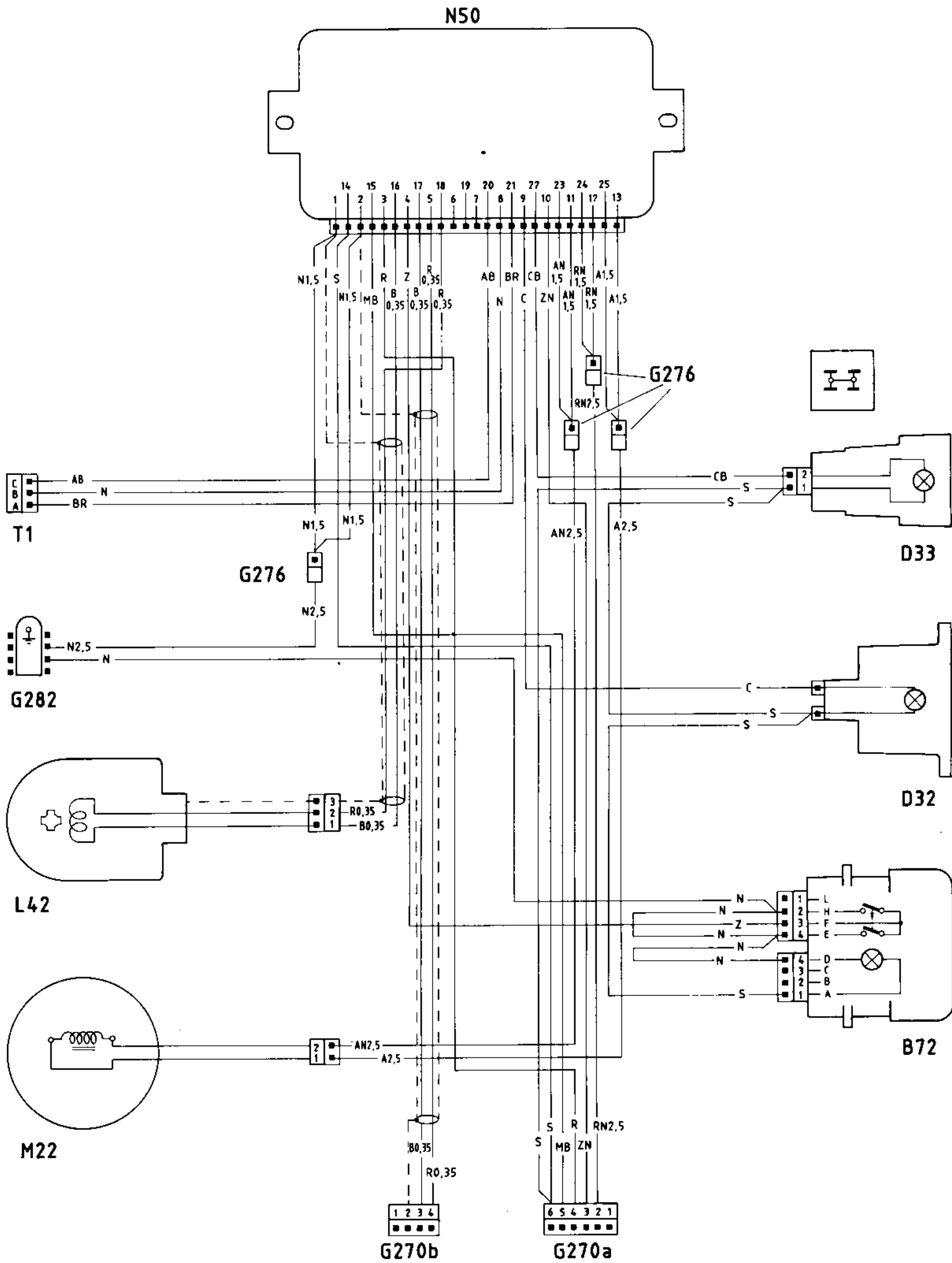
The faults are detected on the relay coil and not on its contact. Faulty contact is detected as a fault on the 4x4 coupling (and cannot be distinguished from it).

In the event of one of the two faults being detected, four-wheel drive is disengaged and the system failure warning light is illuminated.

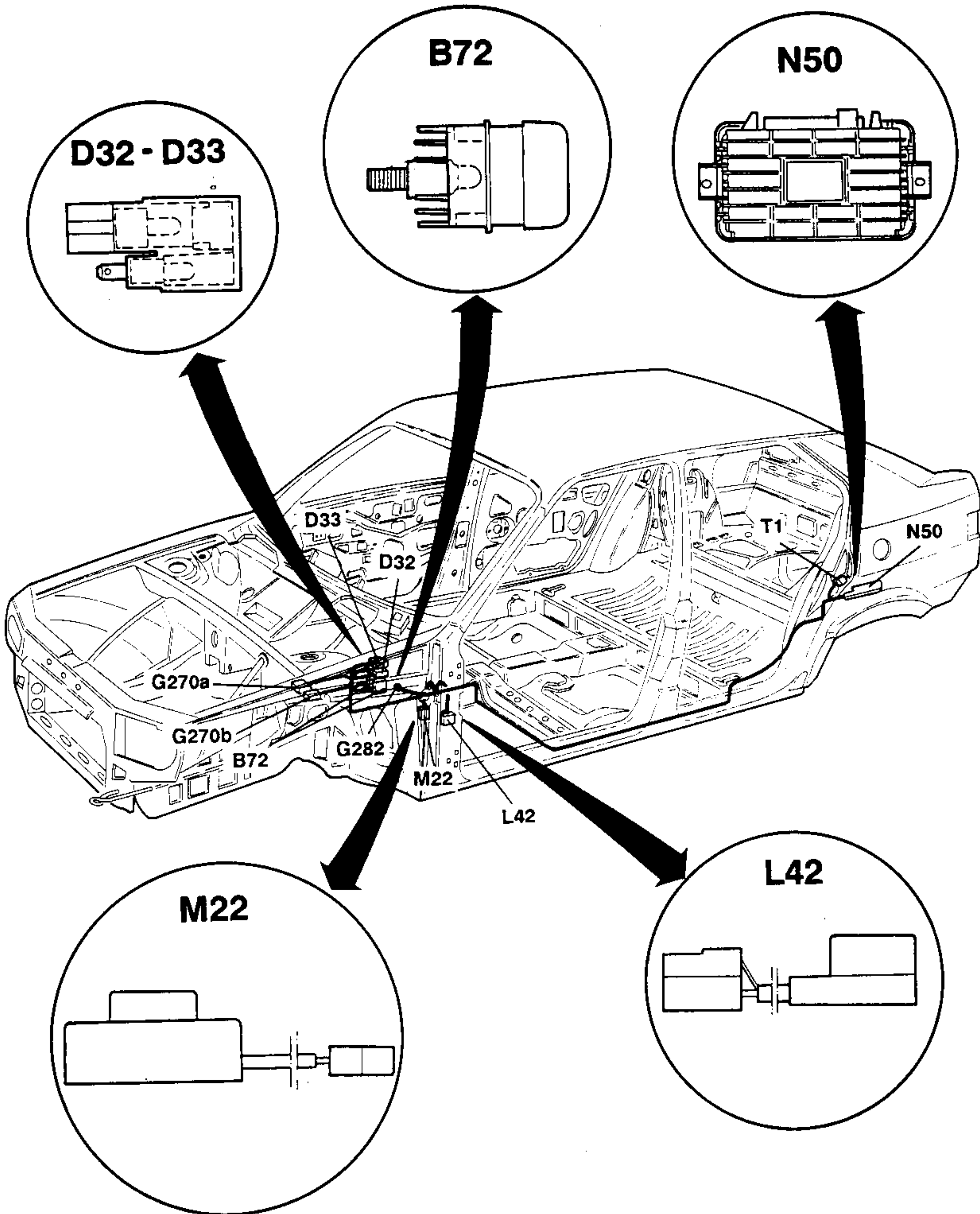
# ELECTRICAL SYSTEM

## Wiring diagram (Diagram A)

FOUR-WHEEL DRIVE 33 1.7 IE 4x4



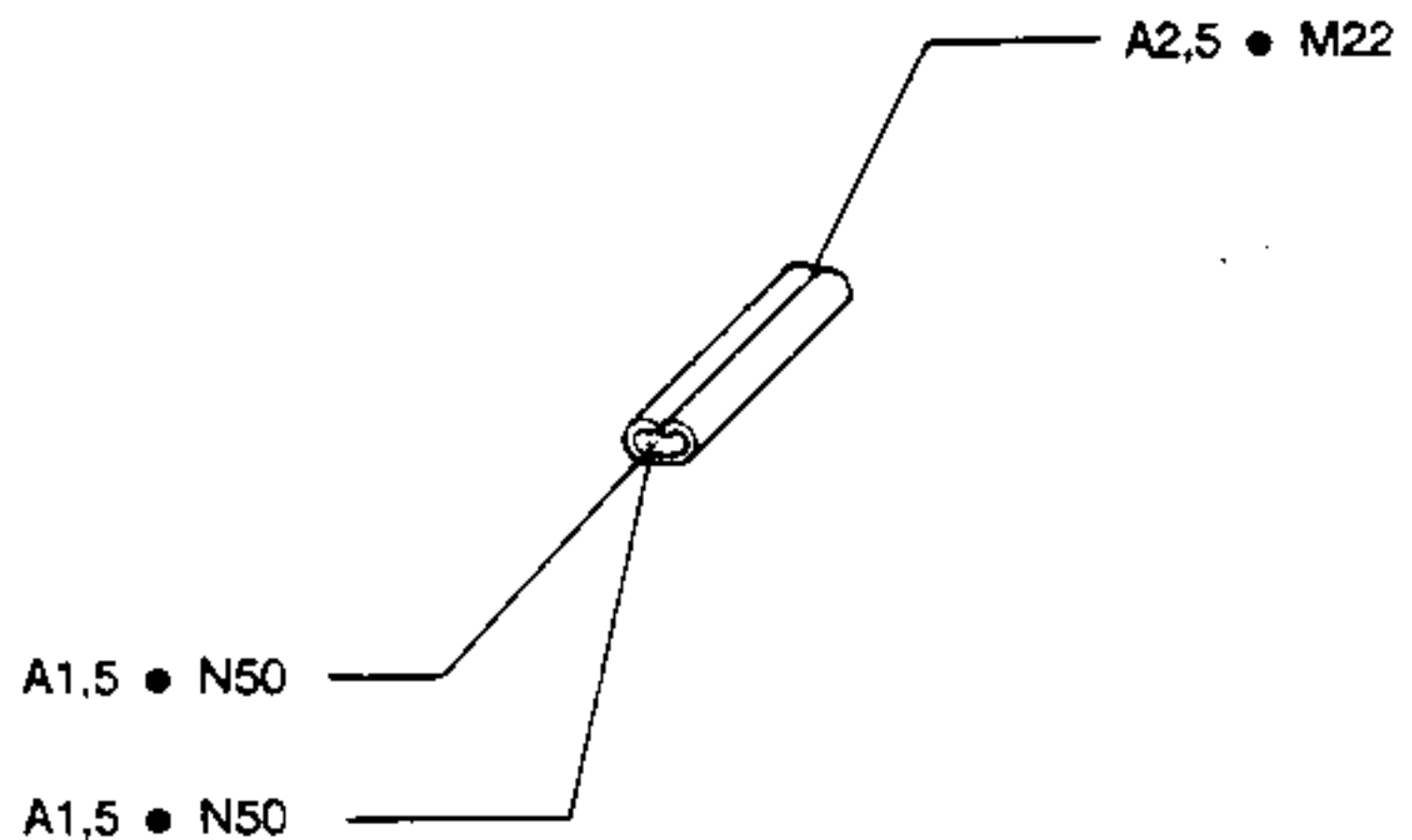
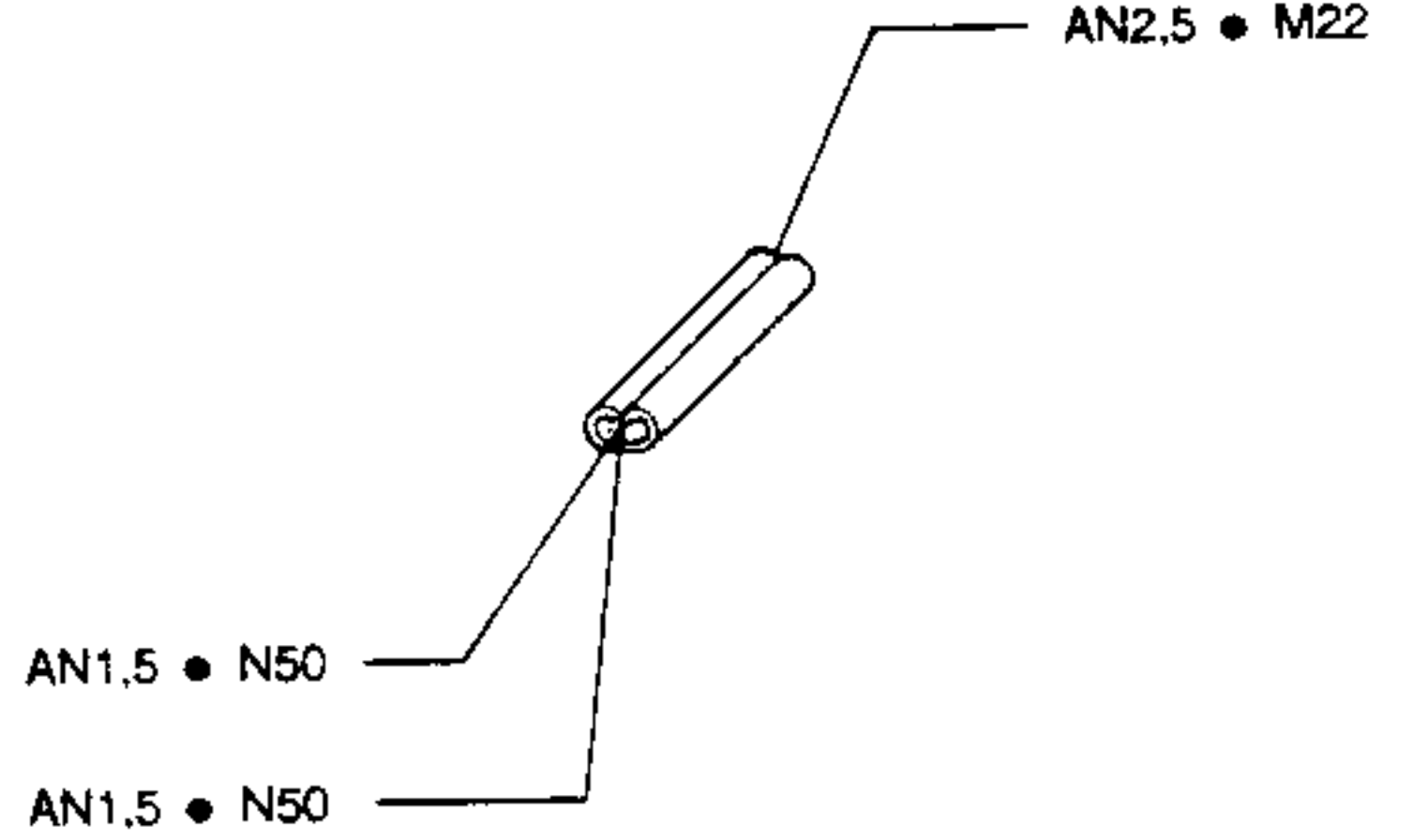
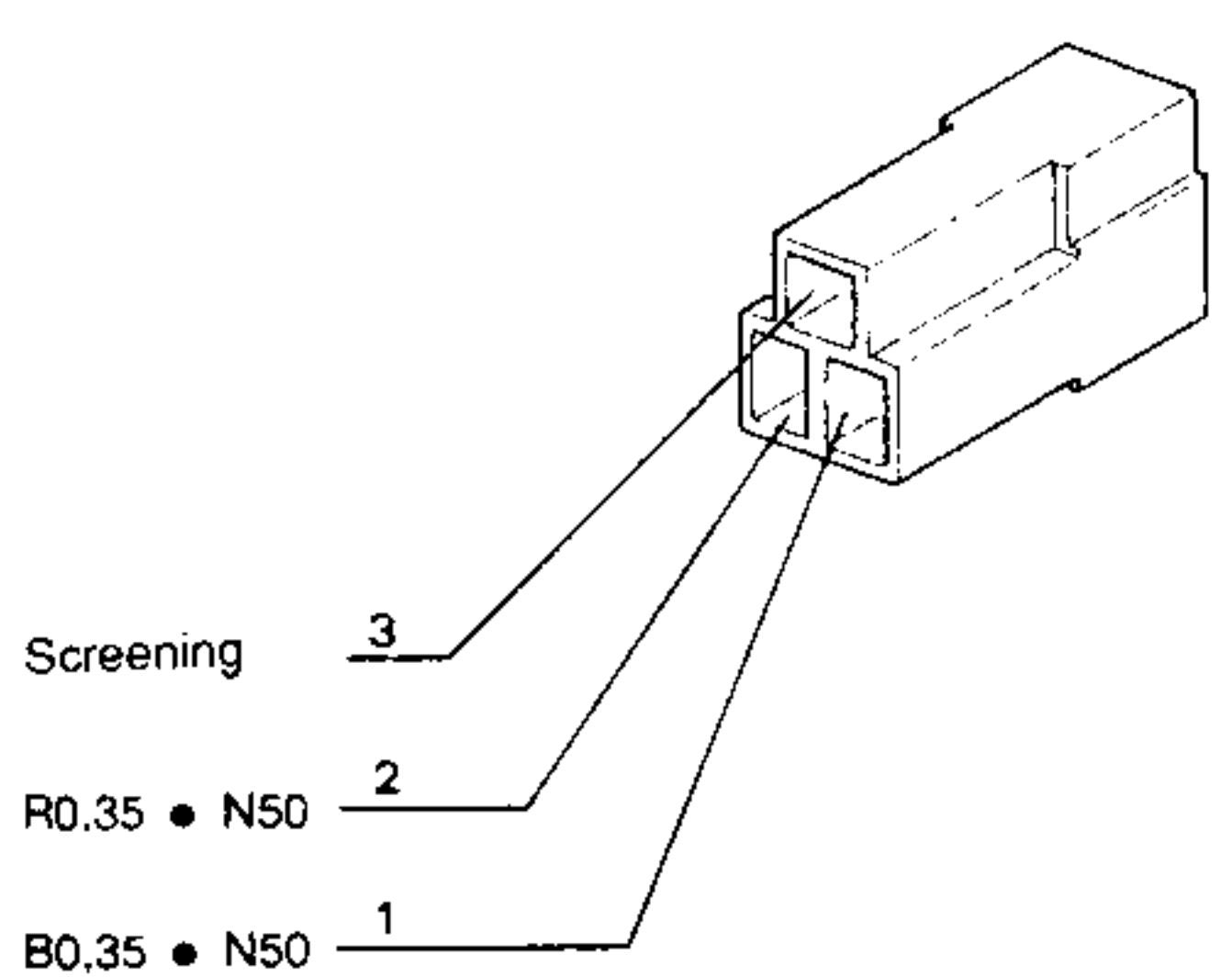
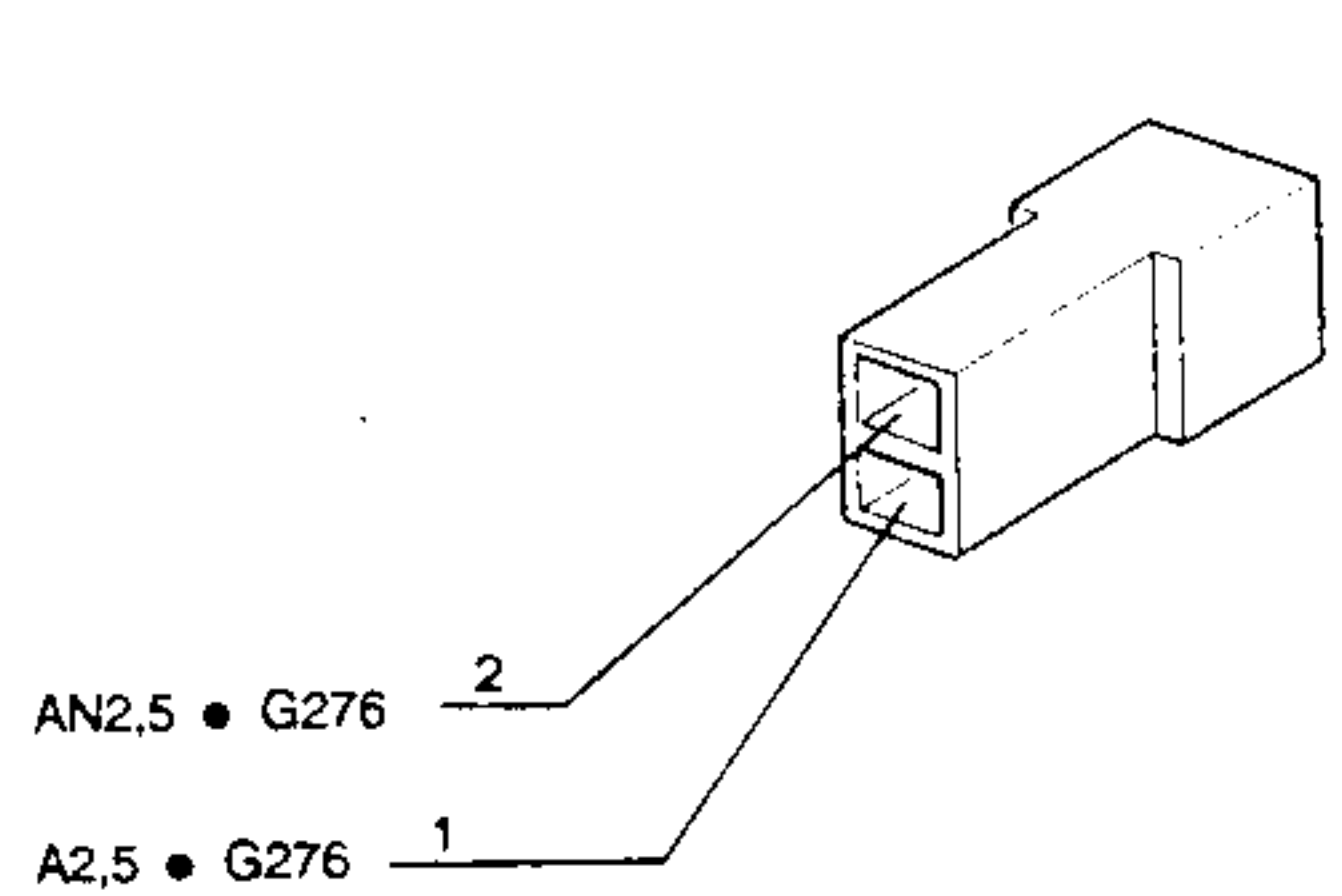
Wiring (Diagram A)



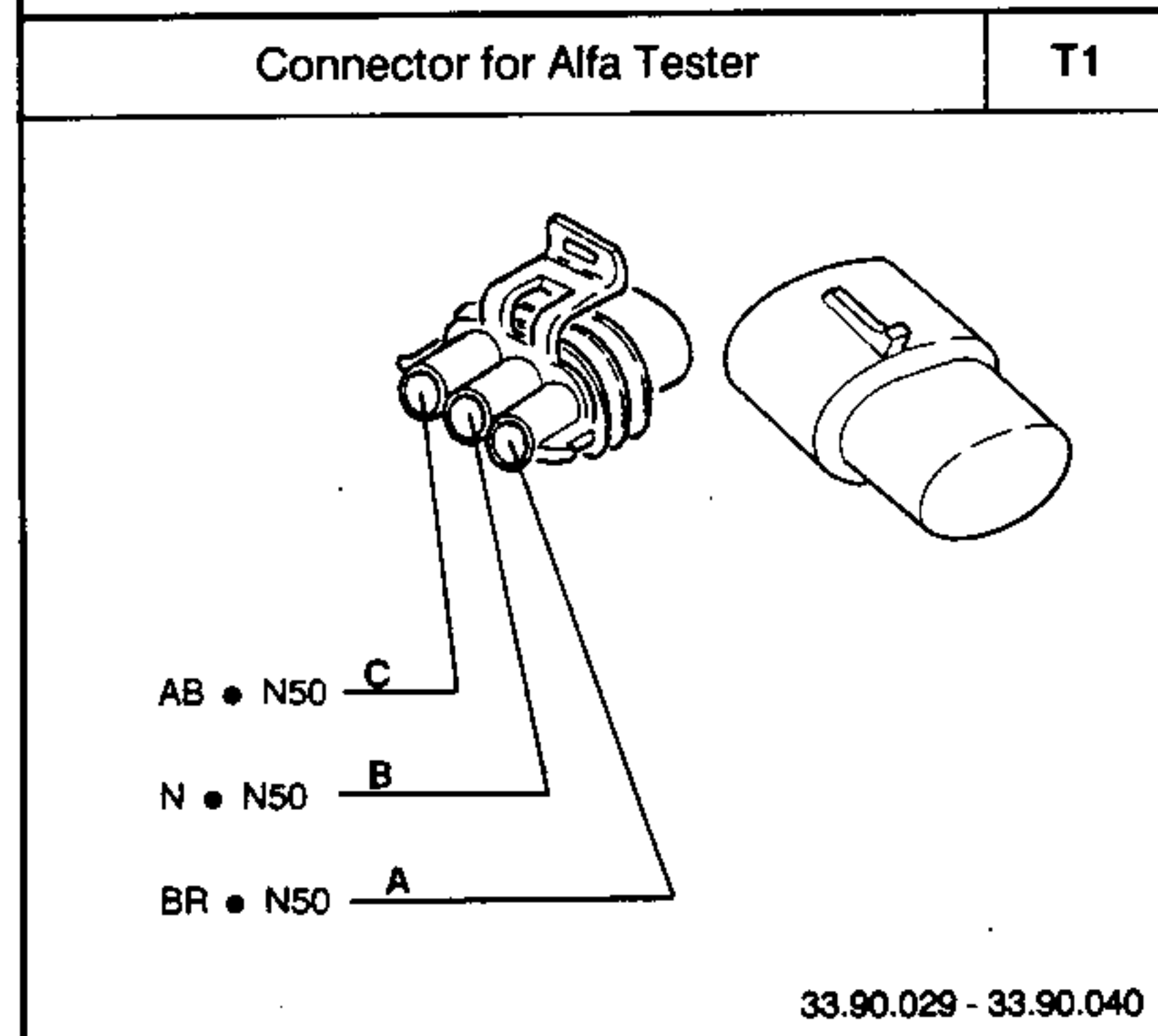
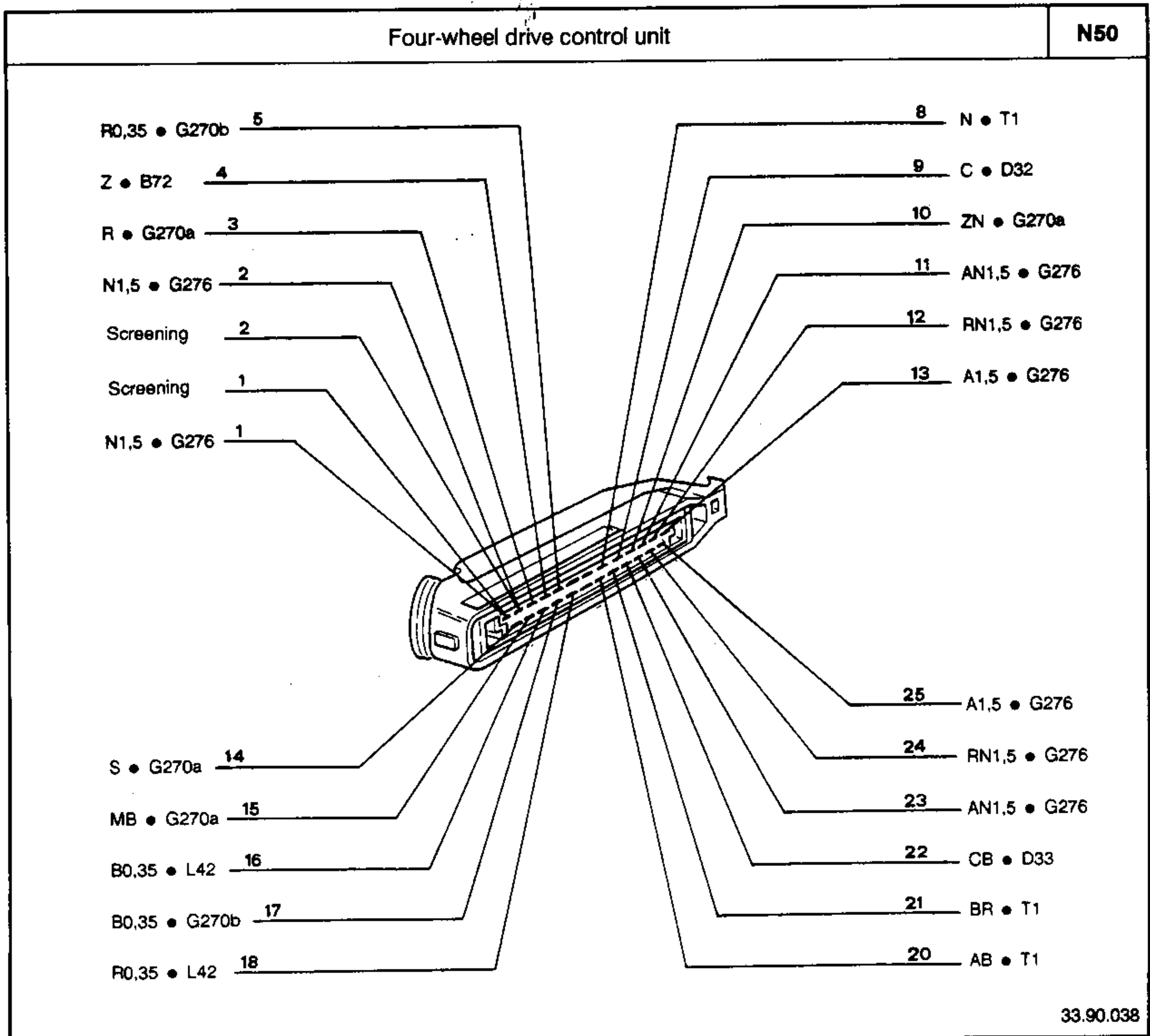
Connectors (Diagram A)

<p>Four-wheel drive control switch</p>	<p>B72</p>	<p>Four-wheel drive system failure warning light</p>	<p>D32</p>
<p>N • G282 2 N • B72 2 Z • N50 3 N • B72 4 N • B72 4 N • B72 4 S • D32 1</p> <p>33.90.039</p>		<p>C • N50 S • B72 S • D33</p> <p>33.90.041</p>	
<p>Four-wheel drive system engaged warning light</p>	<p>D33</p>	<p>Dashboard wiring - four-wheel drive wiring (six way) connection</p>	<p>G270a</p>
<p>CB • N50 2 S • G270a 1 S • D32 1</p> <p>33.90.017</p>		<p>S • N50 6 S • D33 6 MB • N50 5 RN2.5 • G276 2 ZN • N50 3 R • N50 4</p> <p>33.90.036</p>	
<p>Dashboard wiring - four-wheel drive wiring (four way) connection</p>	<p>G270b</p>	<p>Four-wheel drive intermediate wiring clamp</p>	<p>G276</p>
<p>R0,35 • N50 4 B0,35 • N50 3 Screening 2</p> <p>33.90.018</p>		<p>N2,5 • G282 N1,5 • N50 N1,5 • N50</p> <p>33.90.044</p>	

ELECTRICAL SYSTEM

<p>Four-wheel drive intermediate wiring clamp</p> <p><b>G276</b></p>	<p>Four-wheel drive intermediate wiring clamp</p> <p><b>G276</b></p>
 <p>A1,5 • N50</p> <p>A1,5 • N50</p> <p>A2,5 • M22</p> <p>33.90.044</p>	 <p>AN1,5 • N50</p> <p>AN1,5 • N50</p> <p>AN2,5 • M22</p> <p>33.90.044</p>
<p>Four-wheel drive intermediate wiring clamp</p> <p><b>G276</b></p>	<p>Earth on front tunnel</p> <p><b>G282</b></p>
 <p>Screening</p> <p>R0,35 • N50</p> <p>B0,35 • N50</p> <p>33.90.042</p>	 <p>AN2,5 • G276</p> <p>A2,5 • G276</p> <p>33.90.043</p>

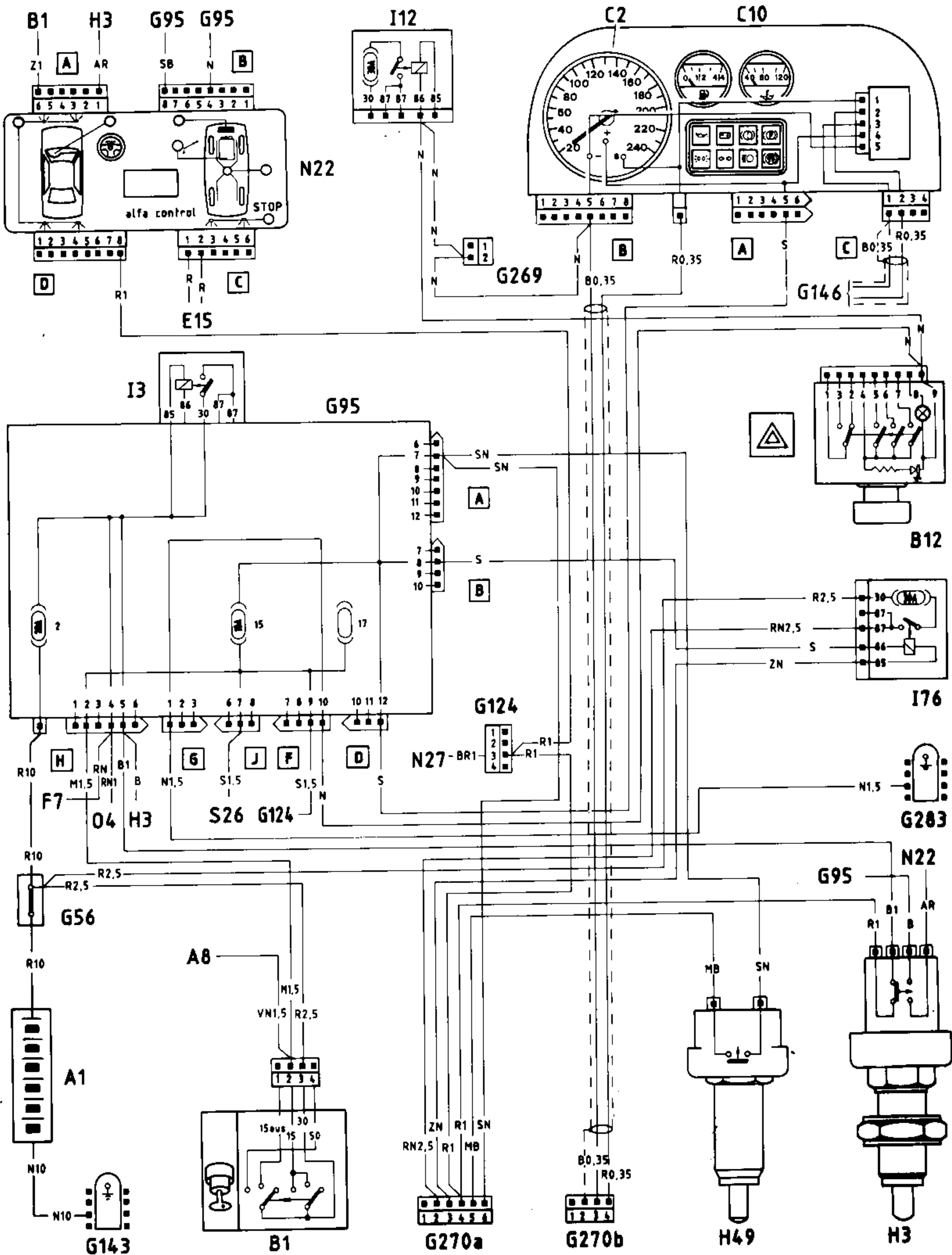
ELECTRICAL SYSTEM



# ELECTRICAL SYSTEM

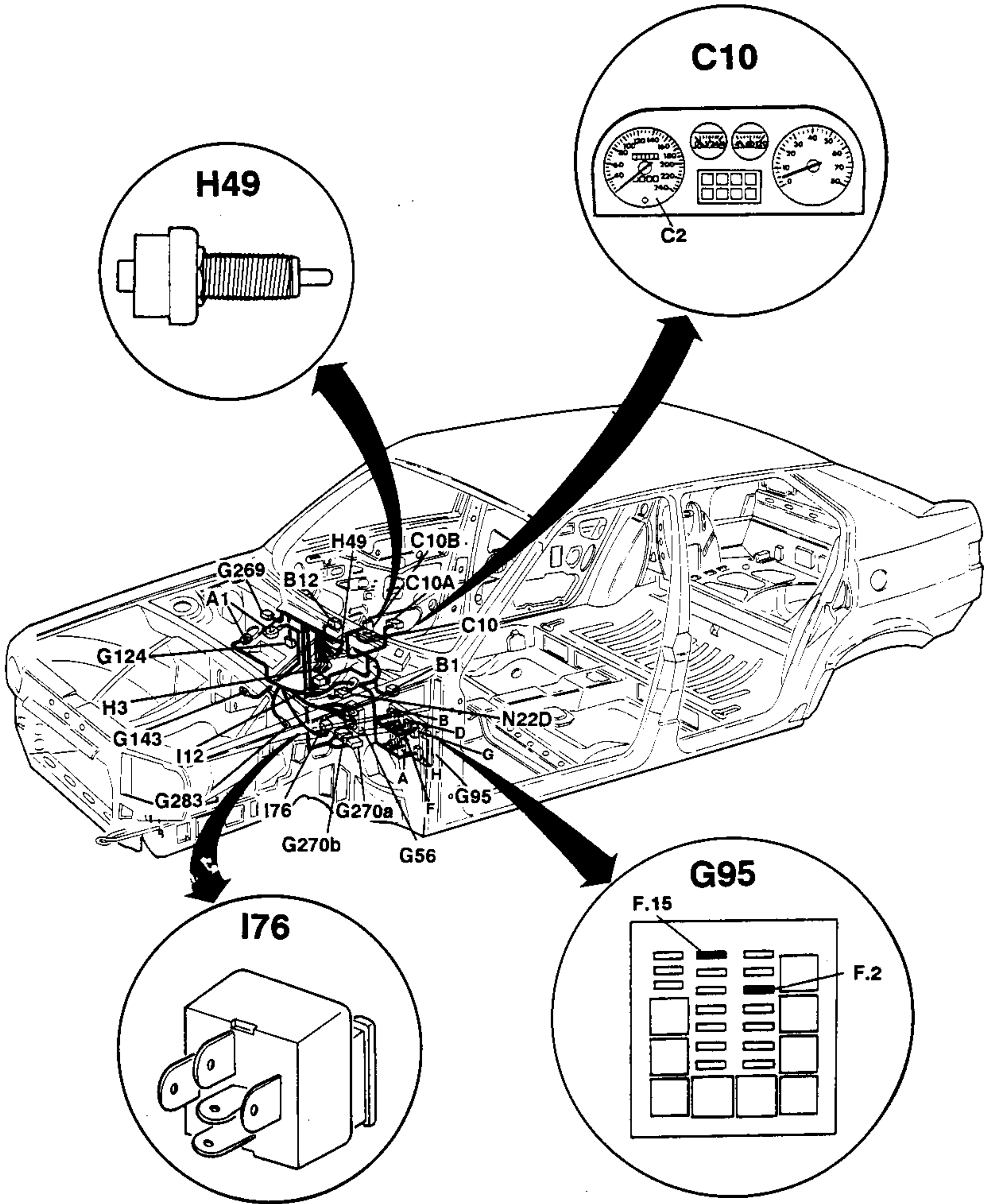
## Wiring diagram (Diagram B)

FOUR-WHEEL DRIVE 33 1.7 IE 4x4



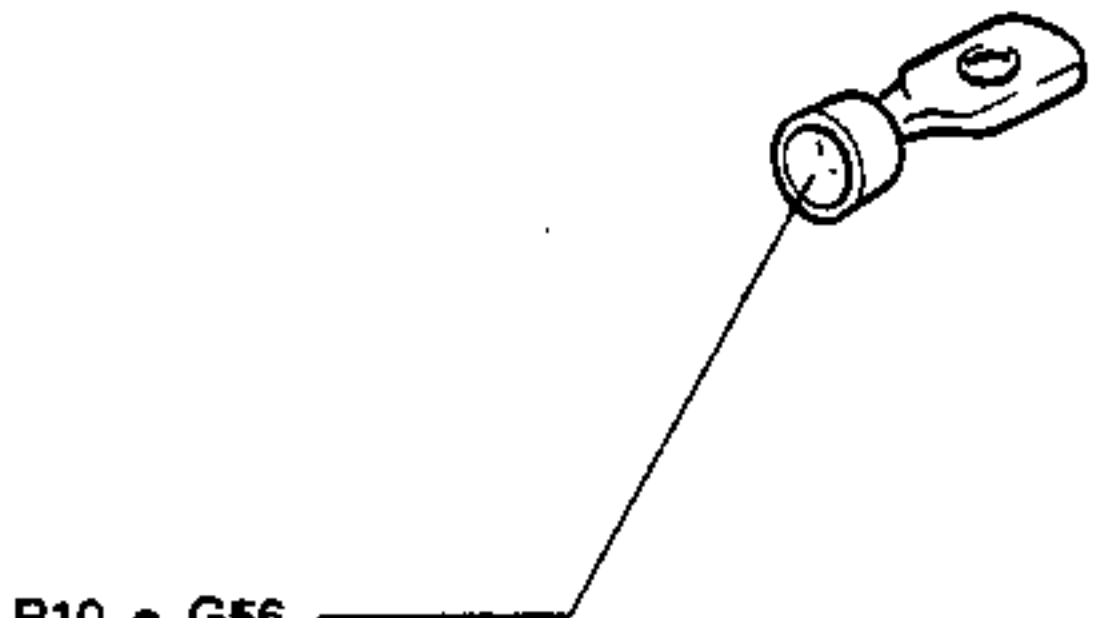
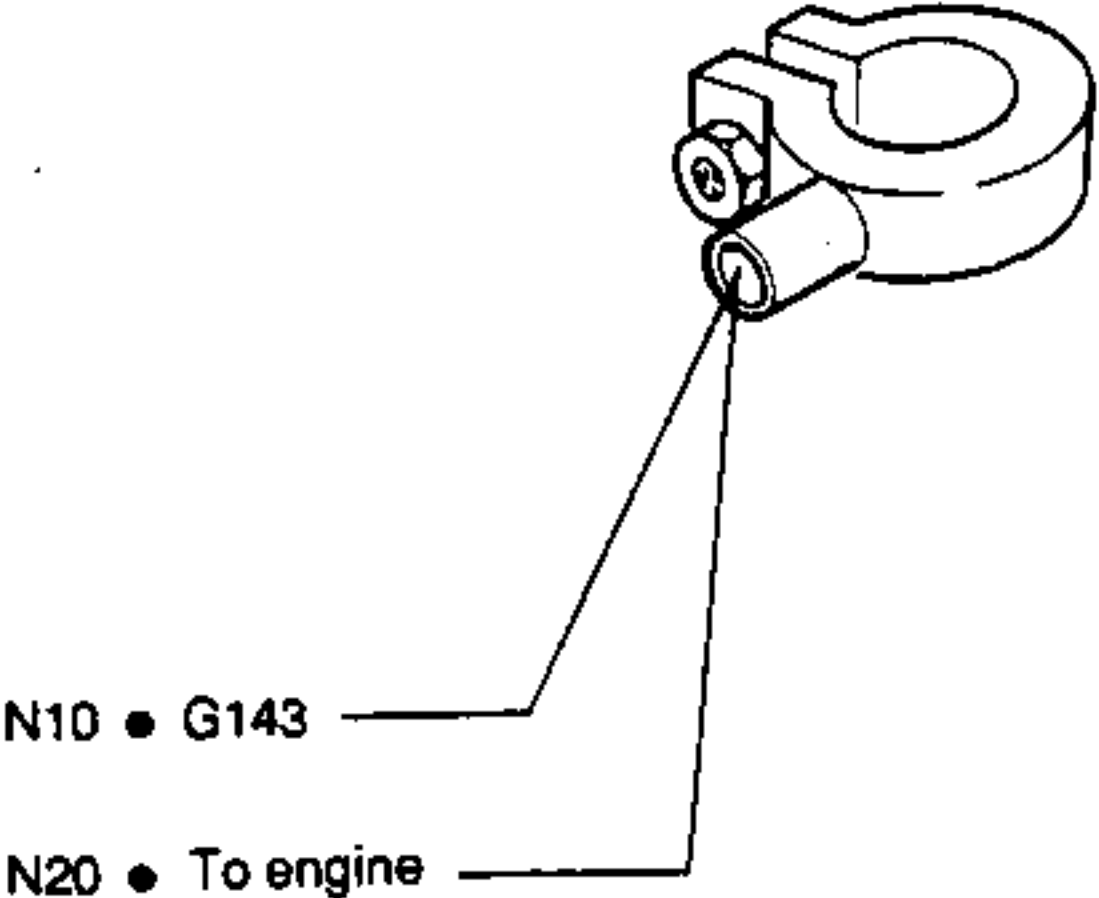
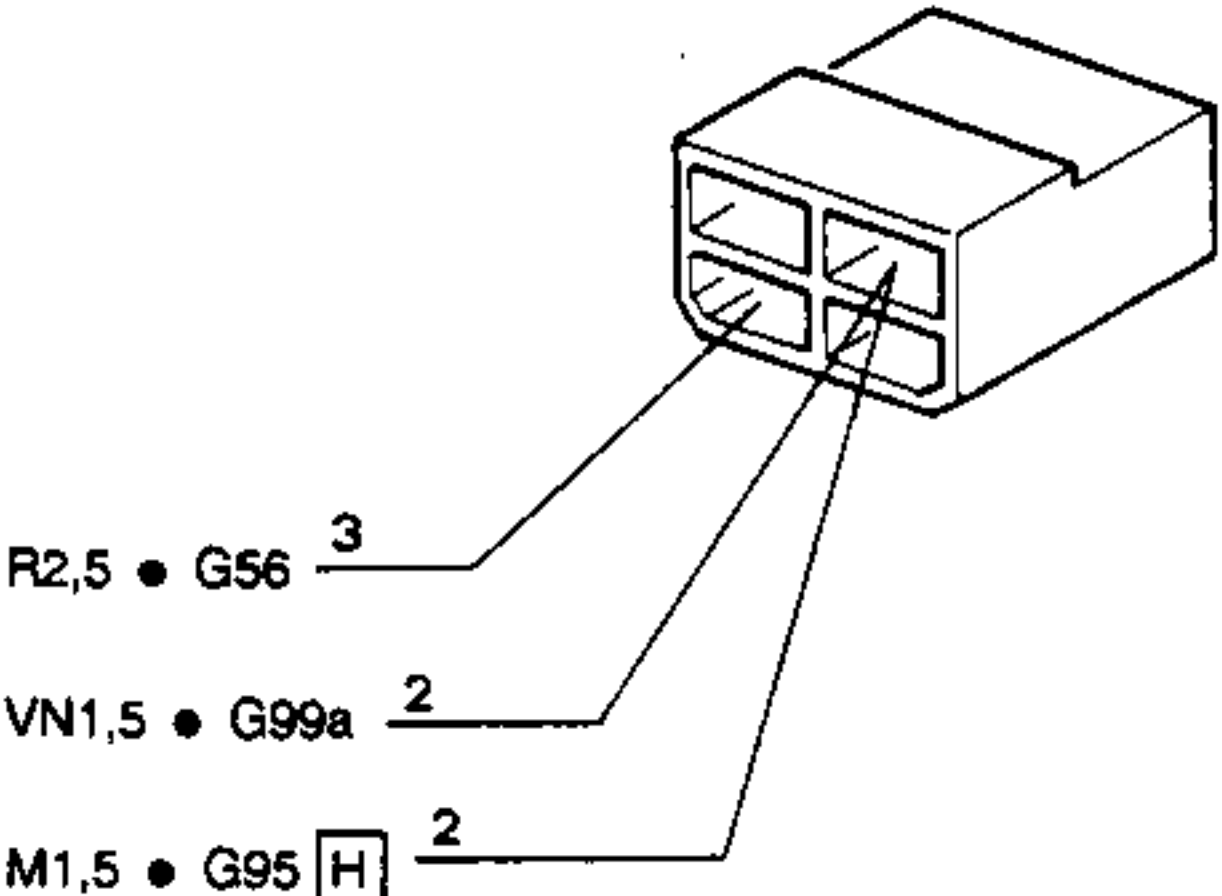
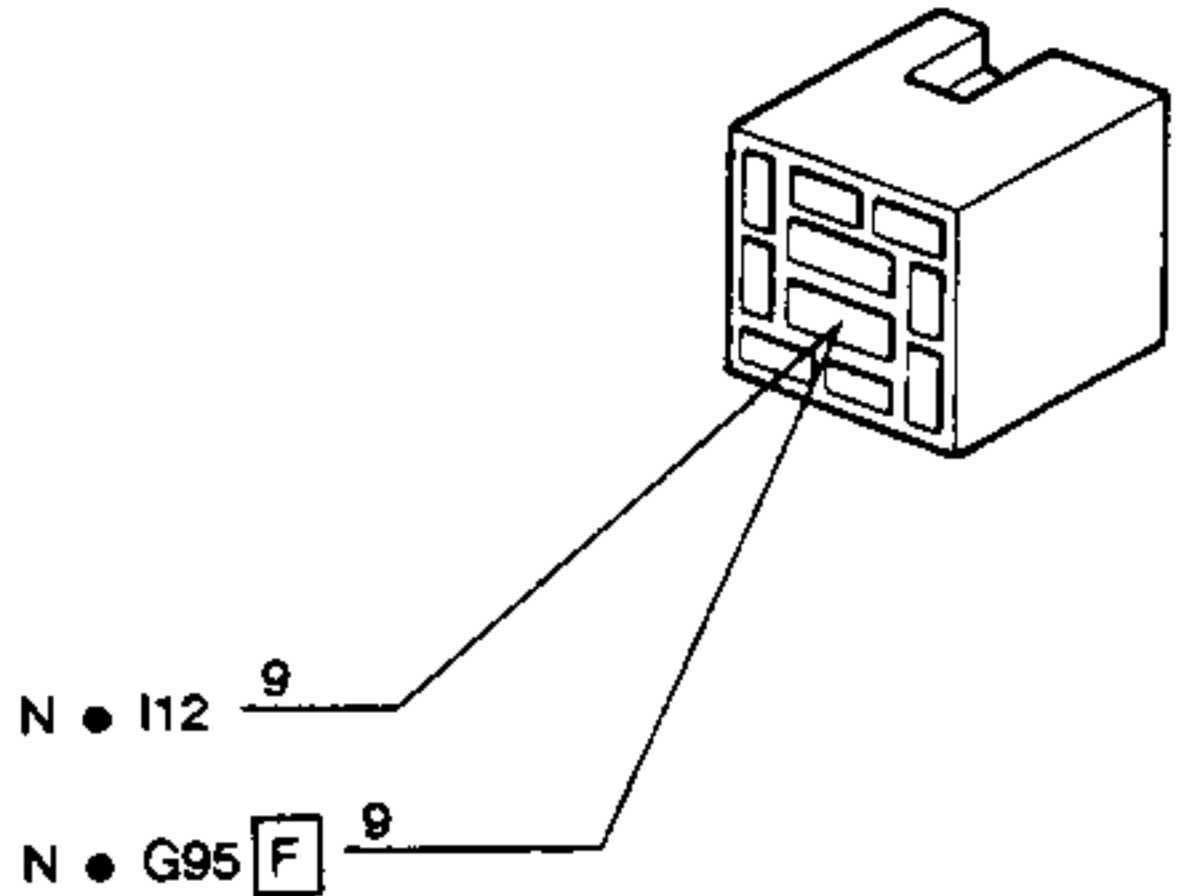
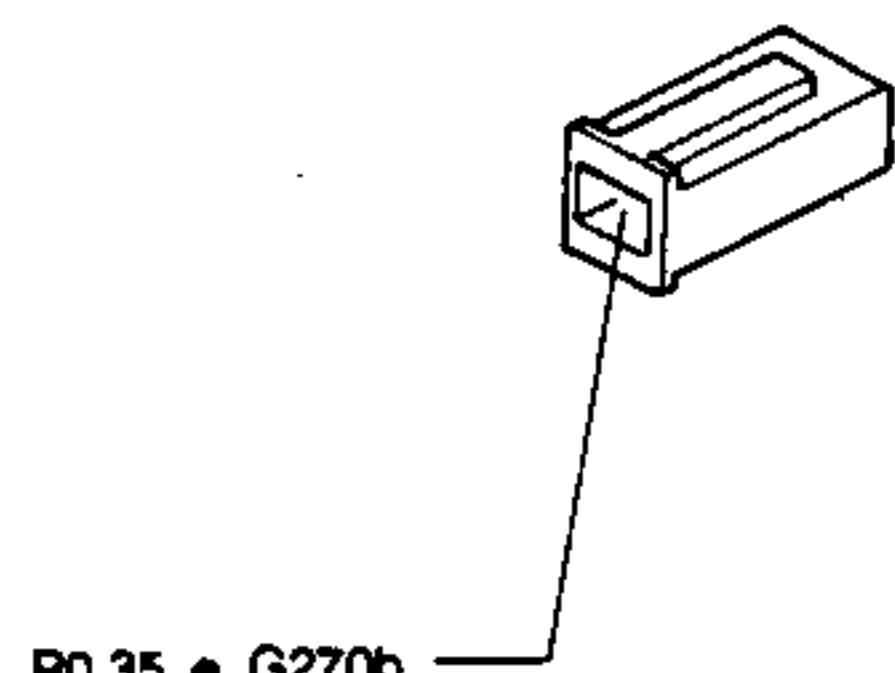
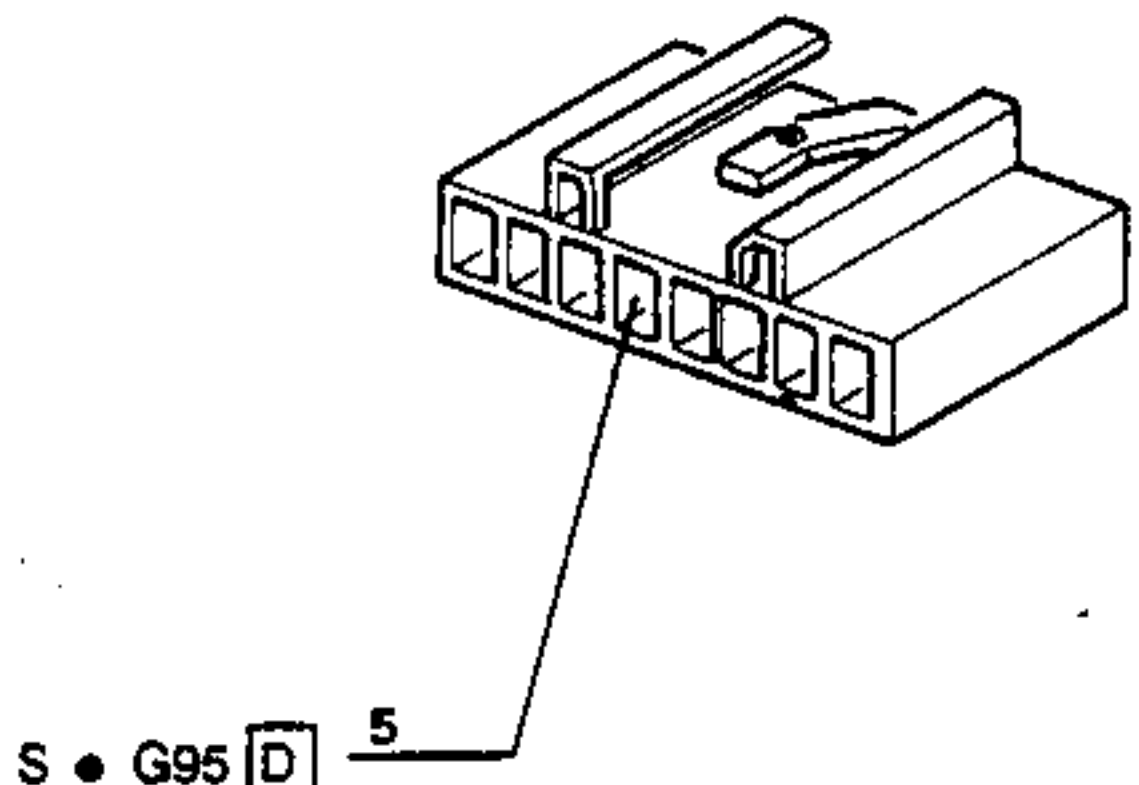


Wiring (Diagram B)

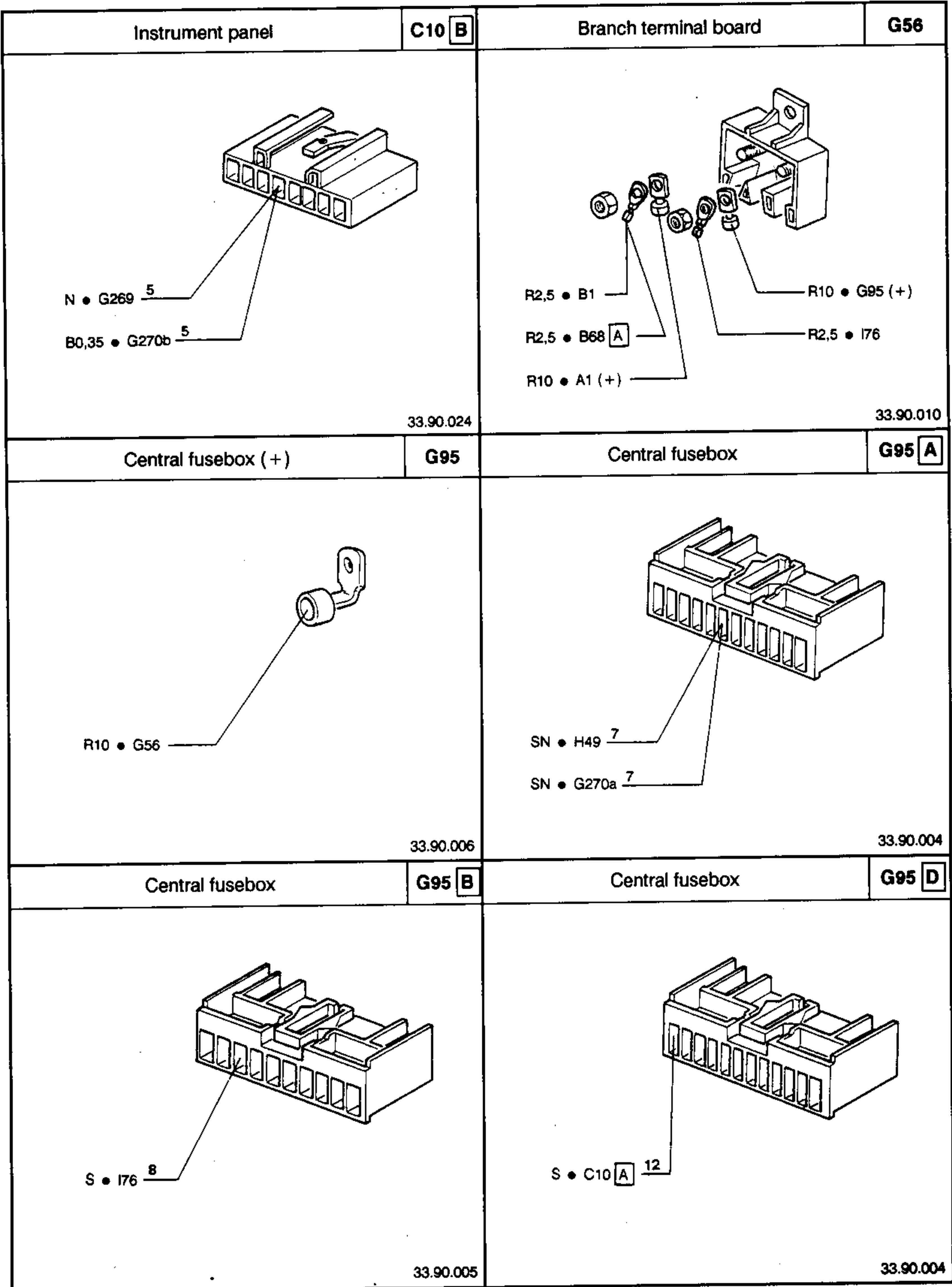


ELECTRICAL SYSTEM

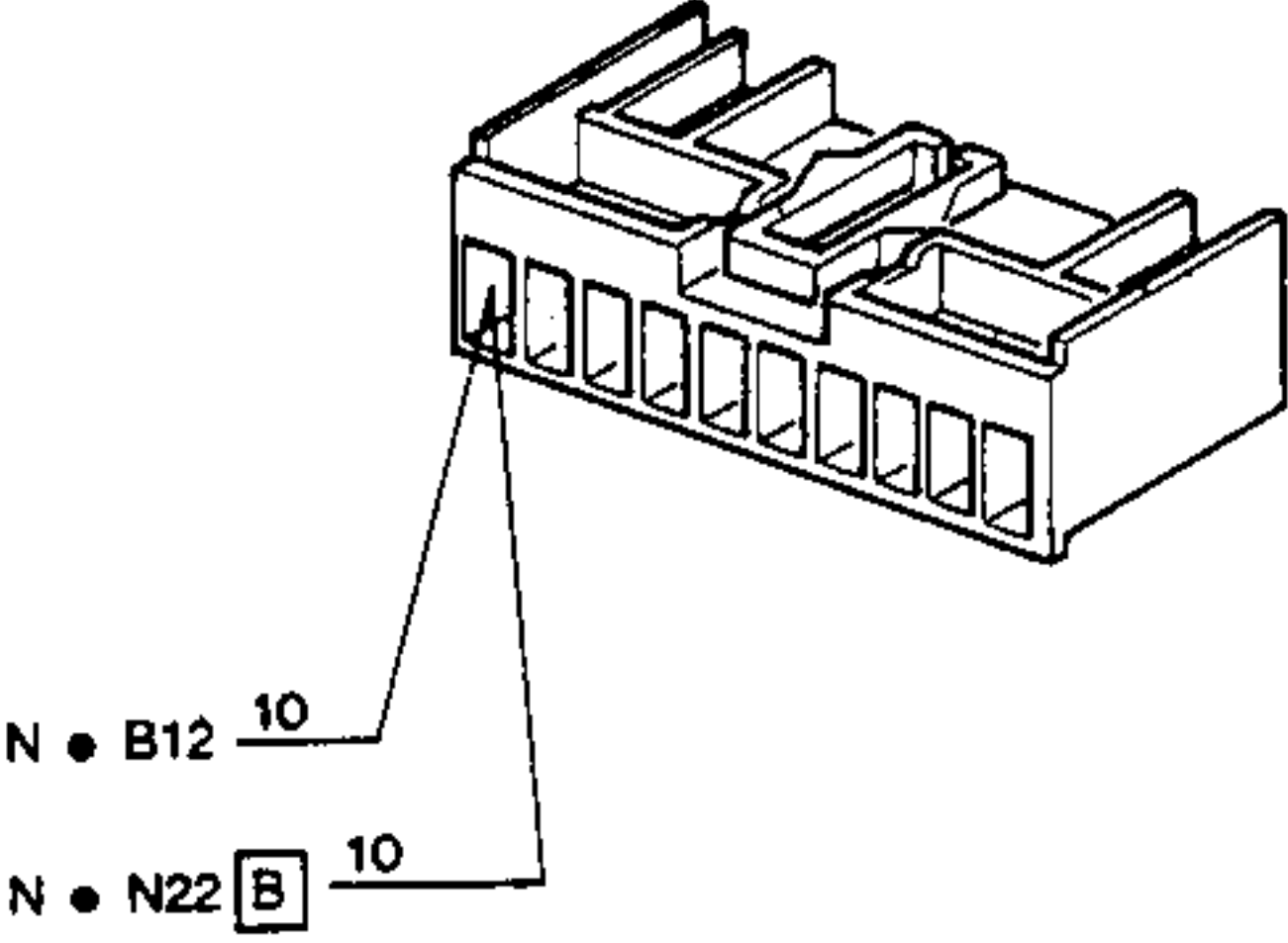
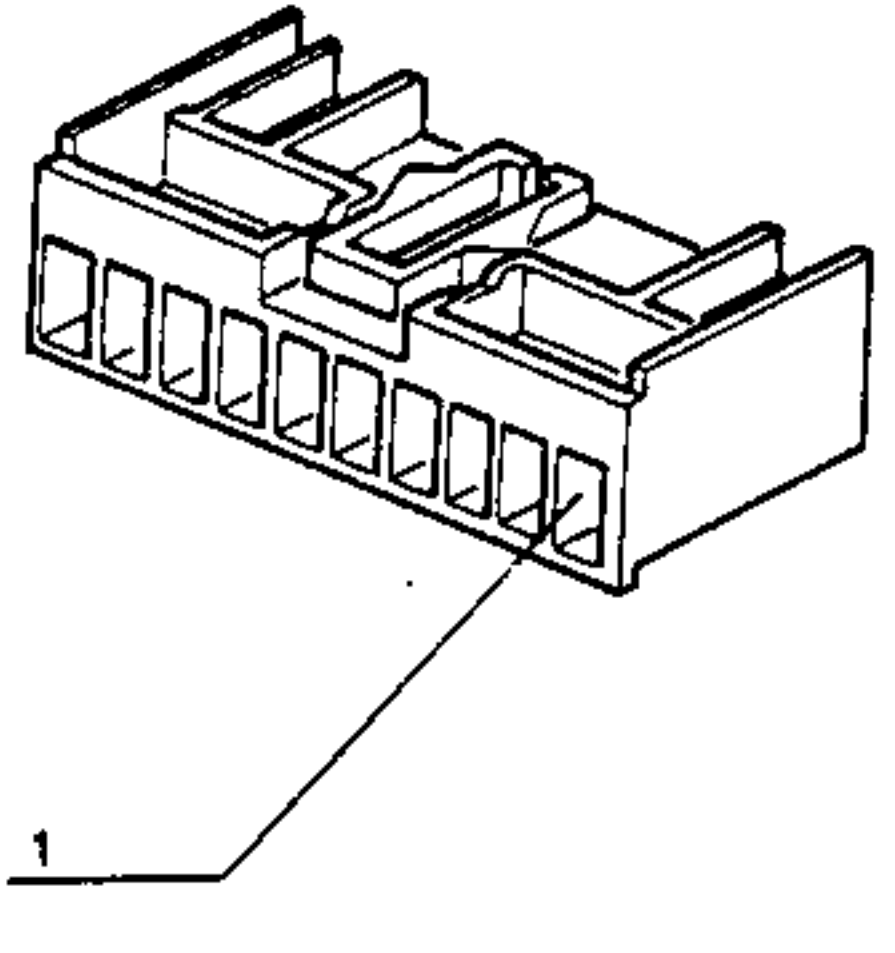
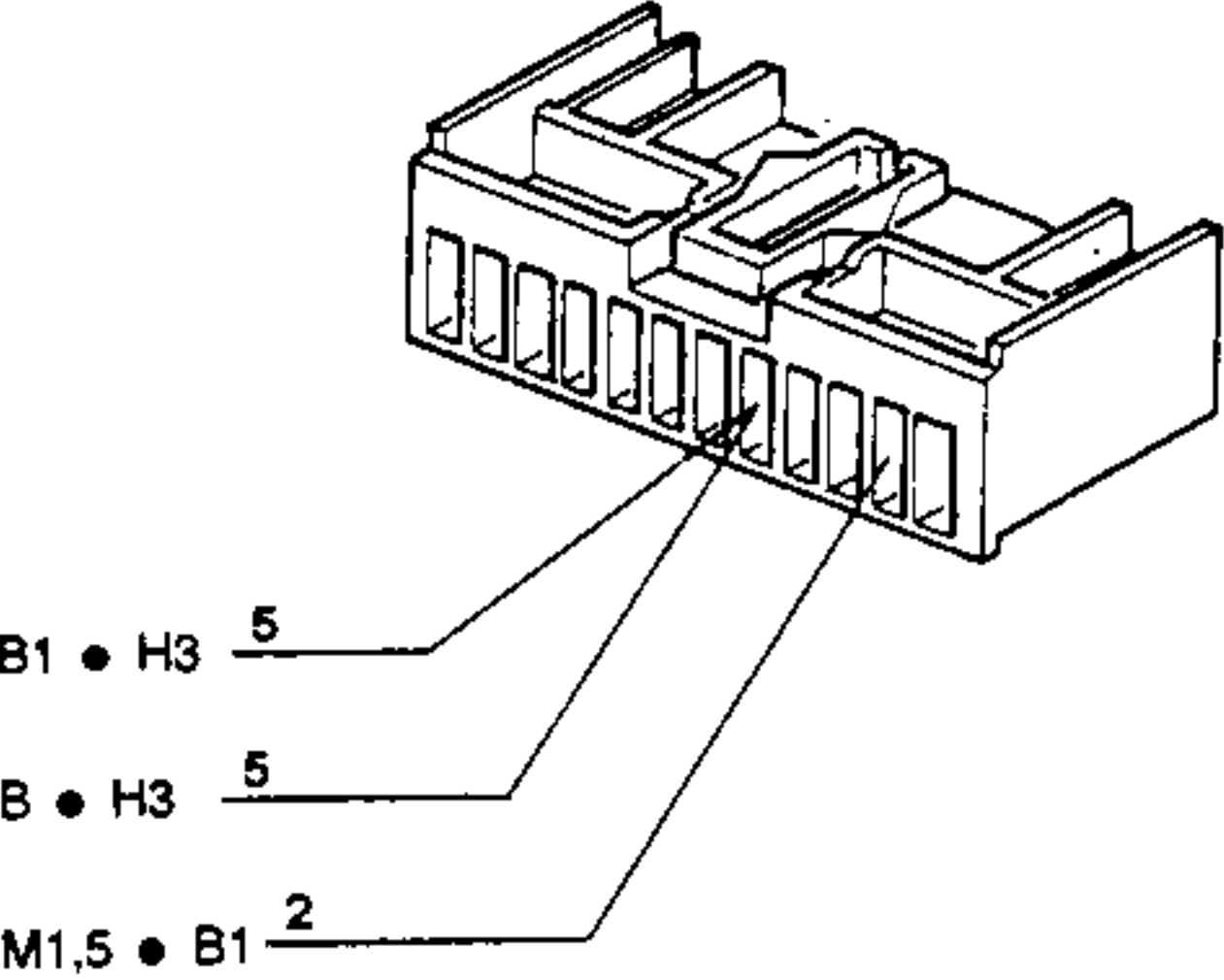
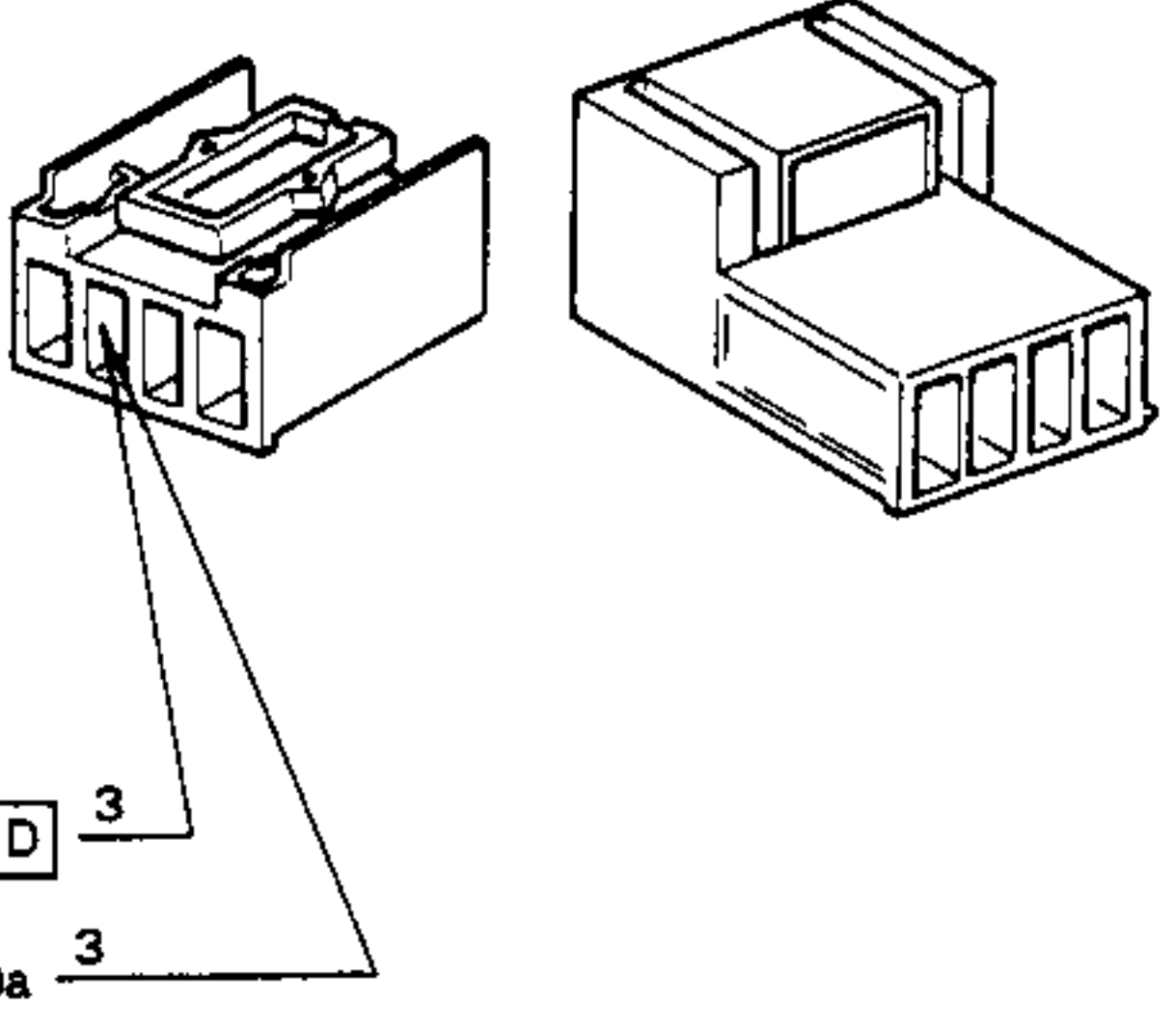
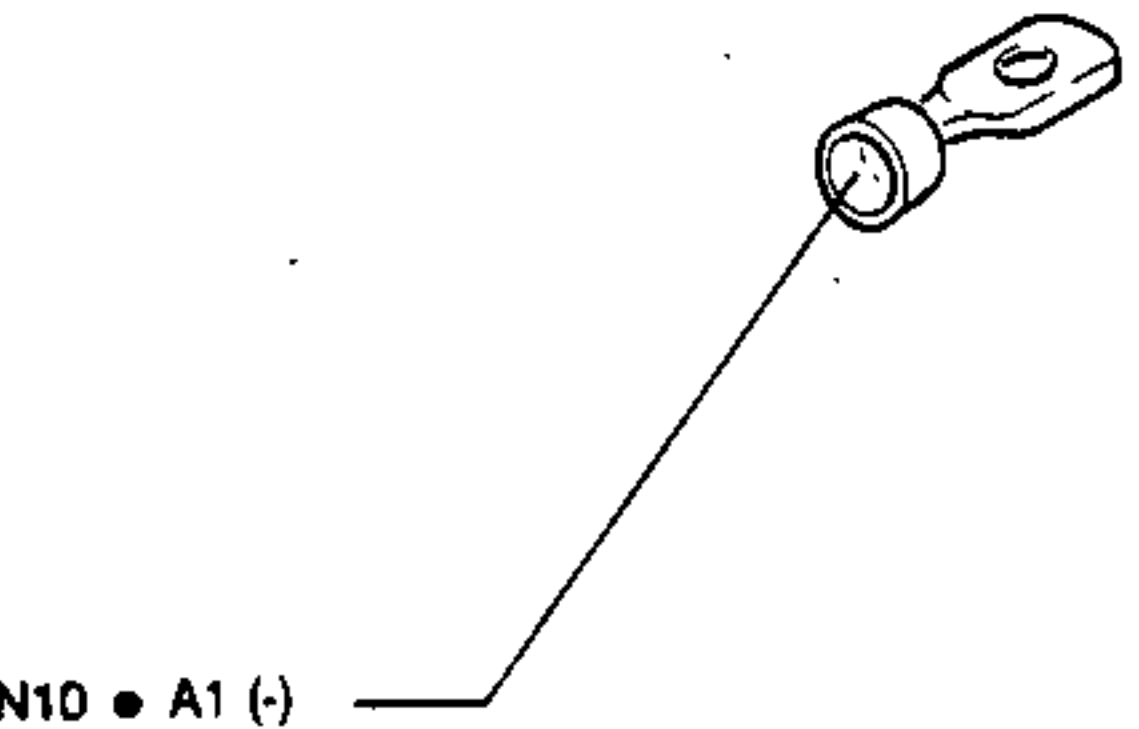
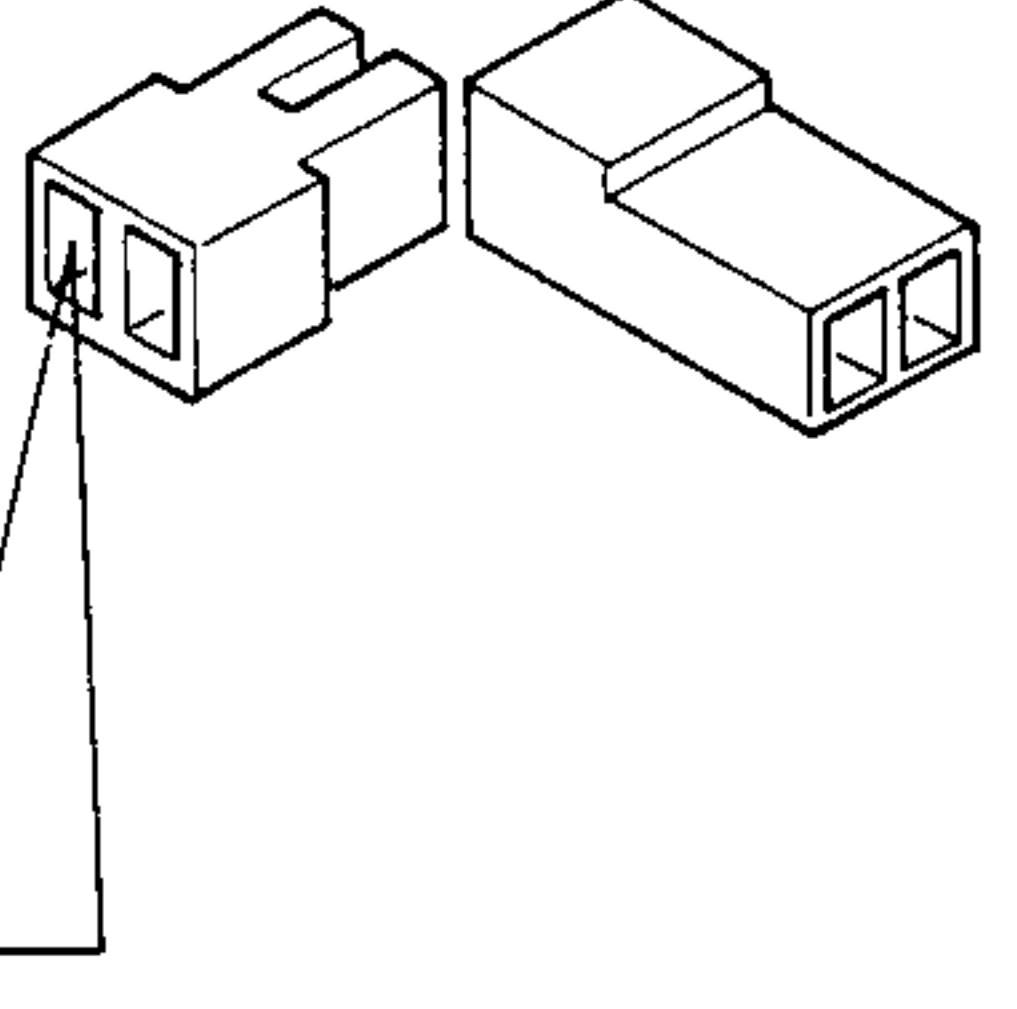
Connectors (Diagram B)

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p>		 <p>N10 • G143</p> <p>N20 • To engine</p>	
<p>33.90.001</p>		<p>33.90.002</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Hazard warning light control switch</p>	<p>B12</p>
 <p>R2,5 • G56 3</p> <p>VN1,5 • G99a 2</p> <p>M1,5 • G95 H 2</p>		 <p>N • I12 9</p> <p>N • G95 F 9</p>	
<p>33.90.028</p>		<p>33.90.008</p>	
<p>Instrument panel</p>	<p>C10</p>	<p>Instrument panel</p>	<p>C10 A</p>
 <p>R0,35 • G270b</p>		 <p>S • G95 D 5</p>	
<p>33.90.078</p>		<p>33.90.024</p>	

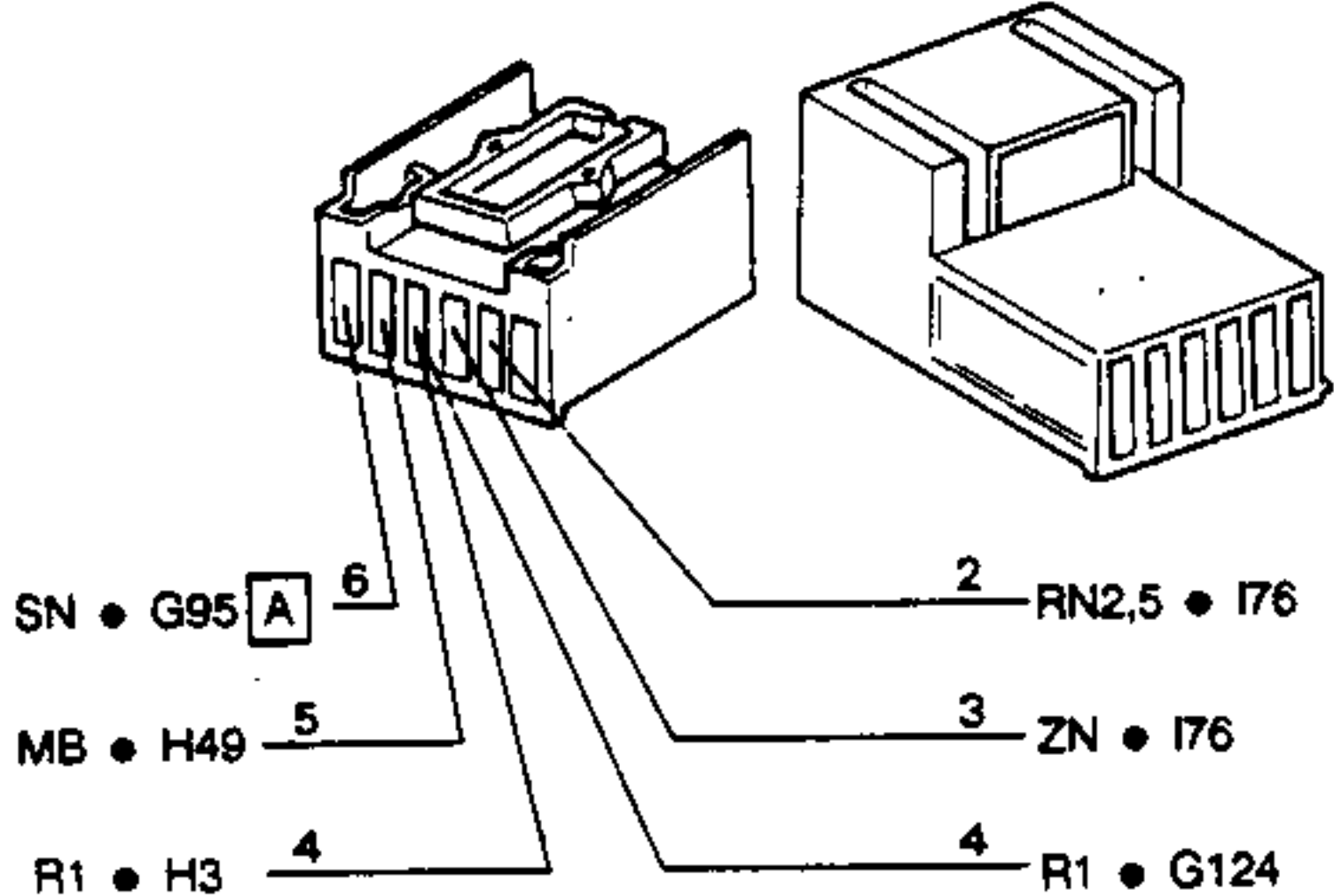
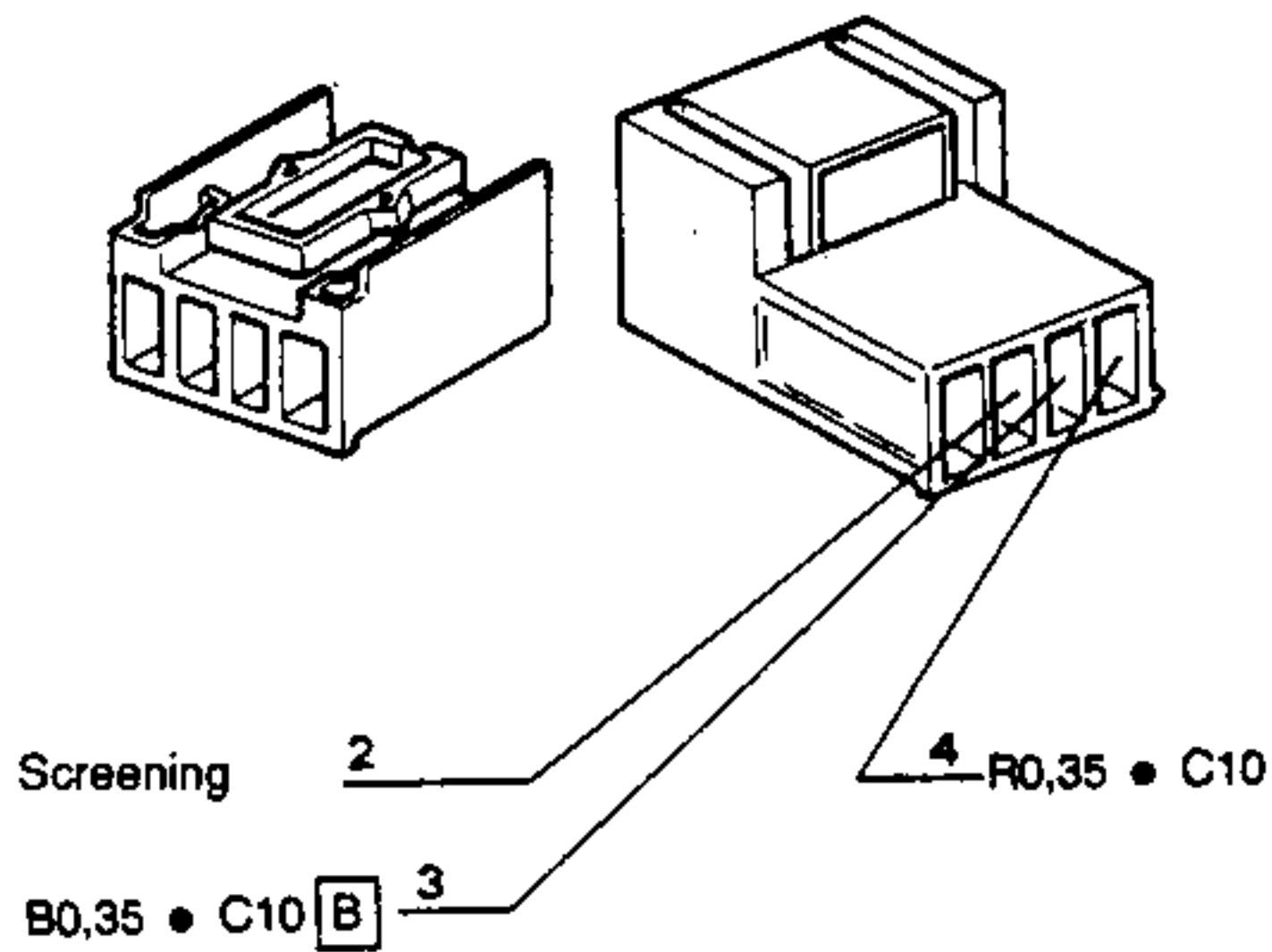
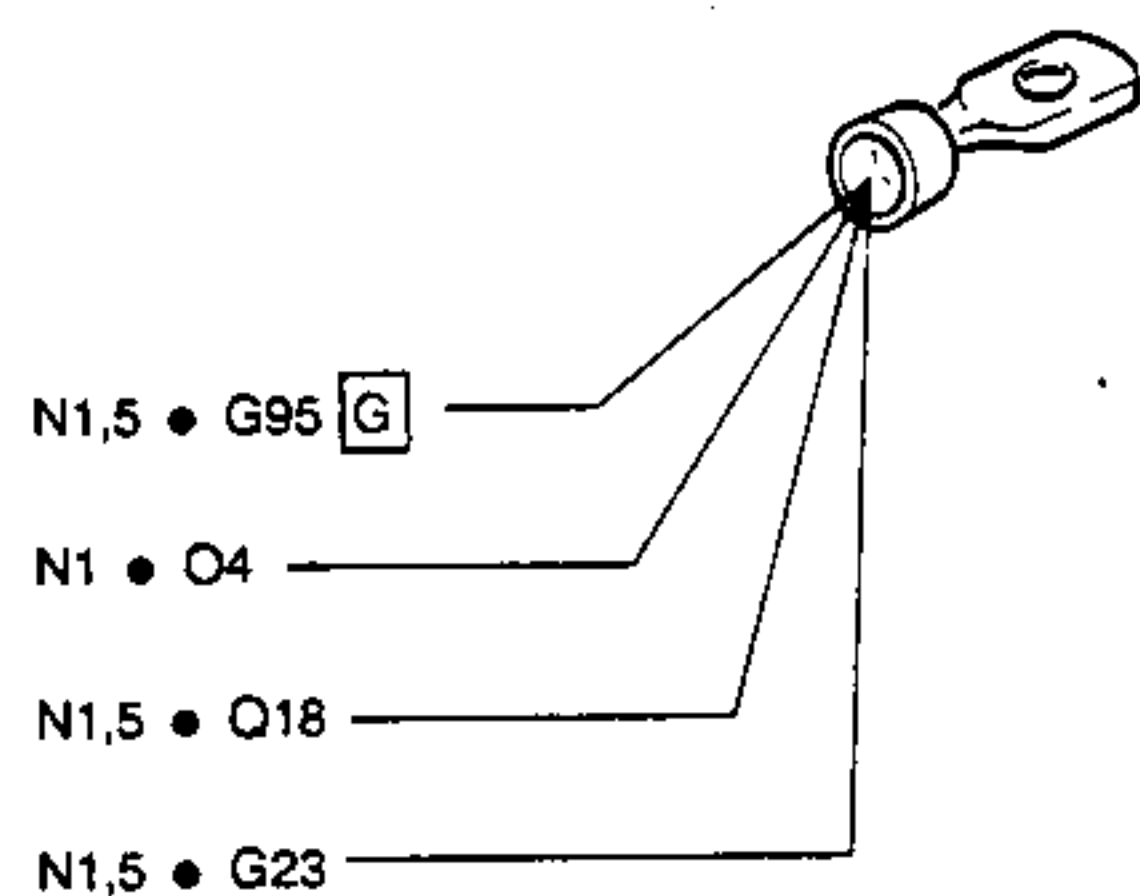
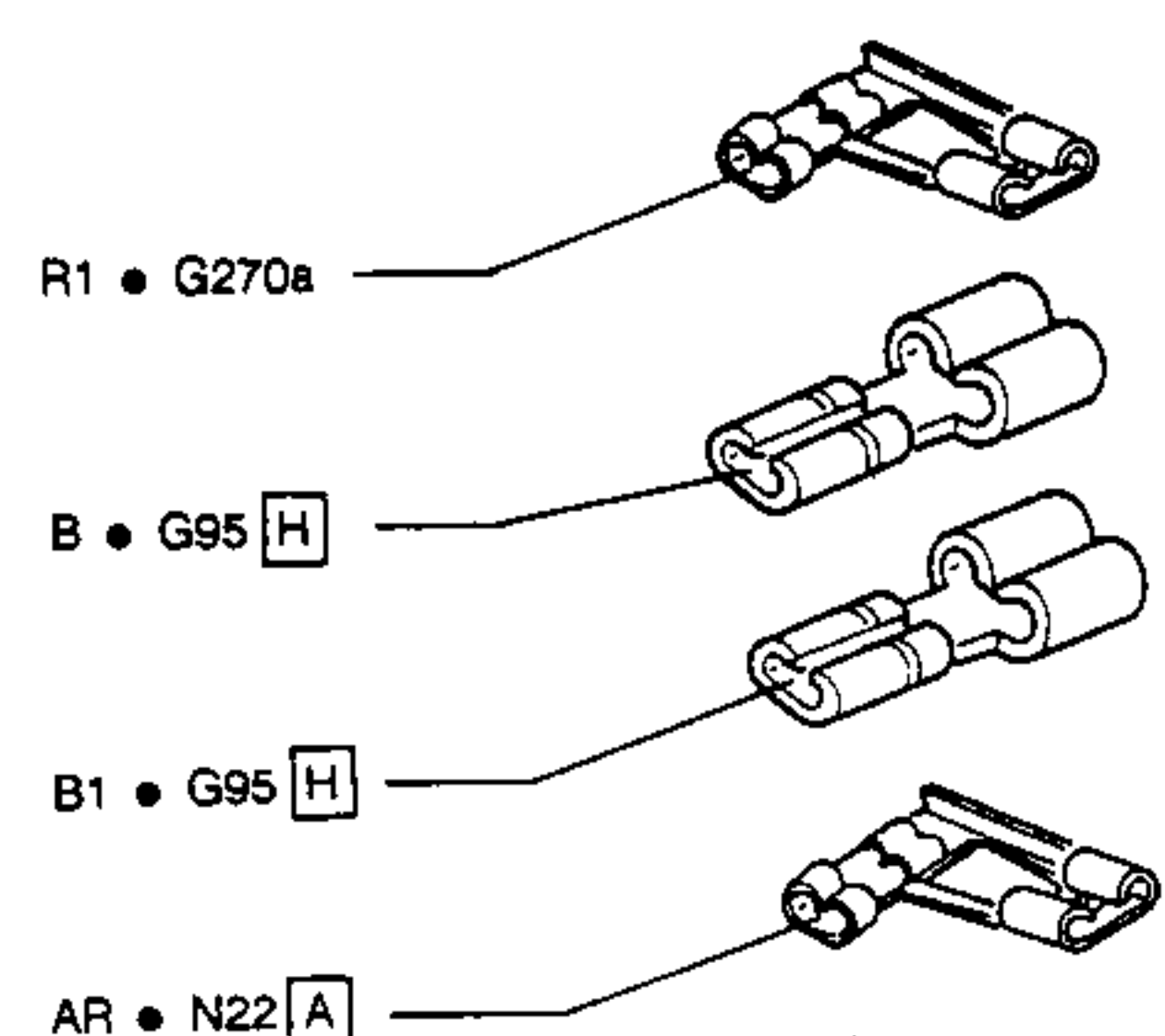
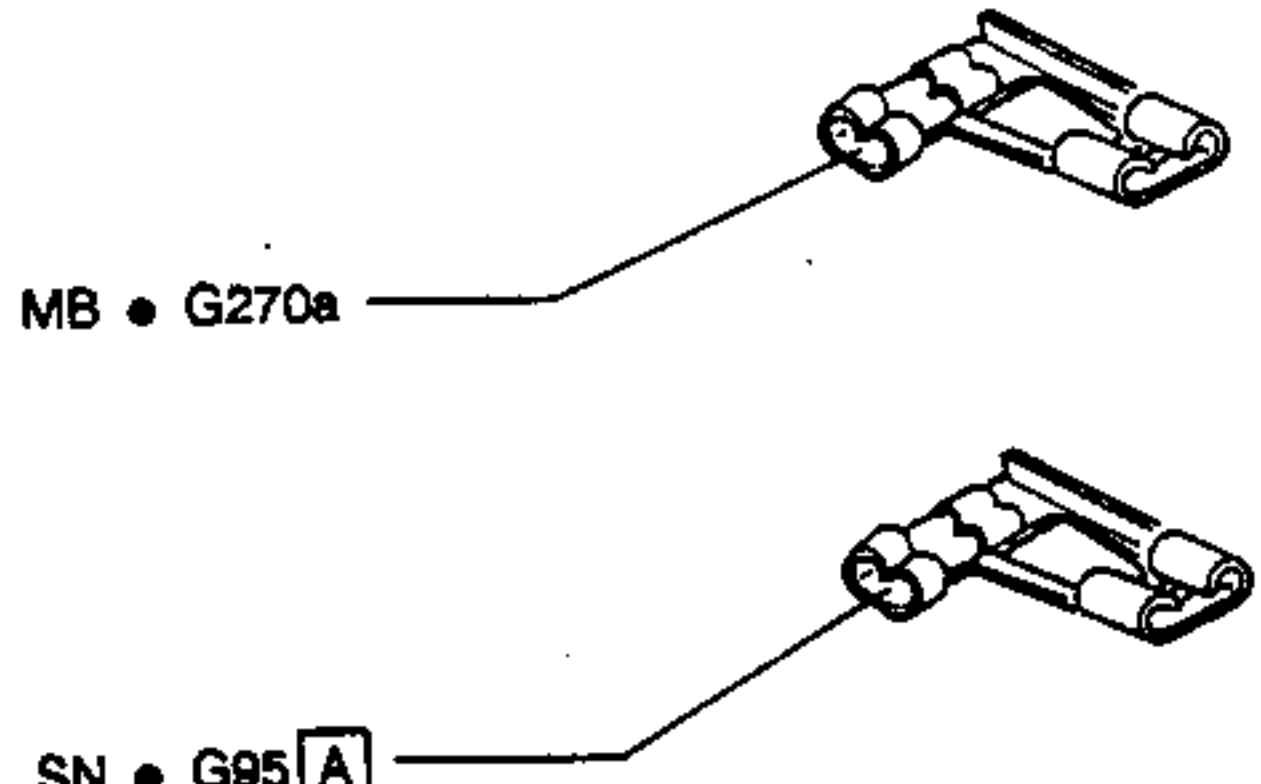
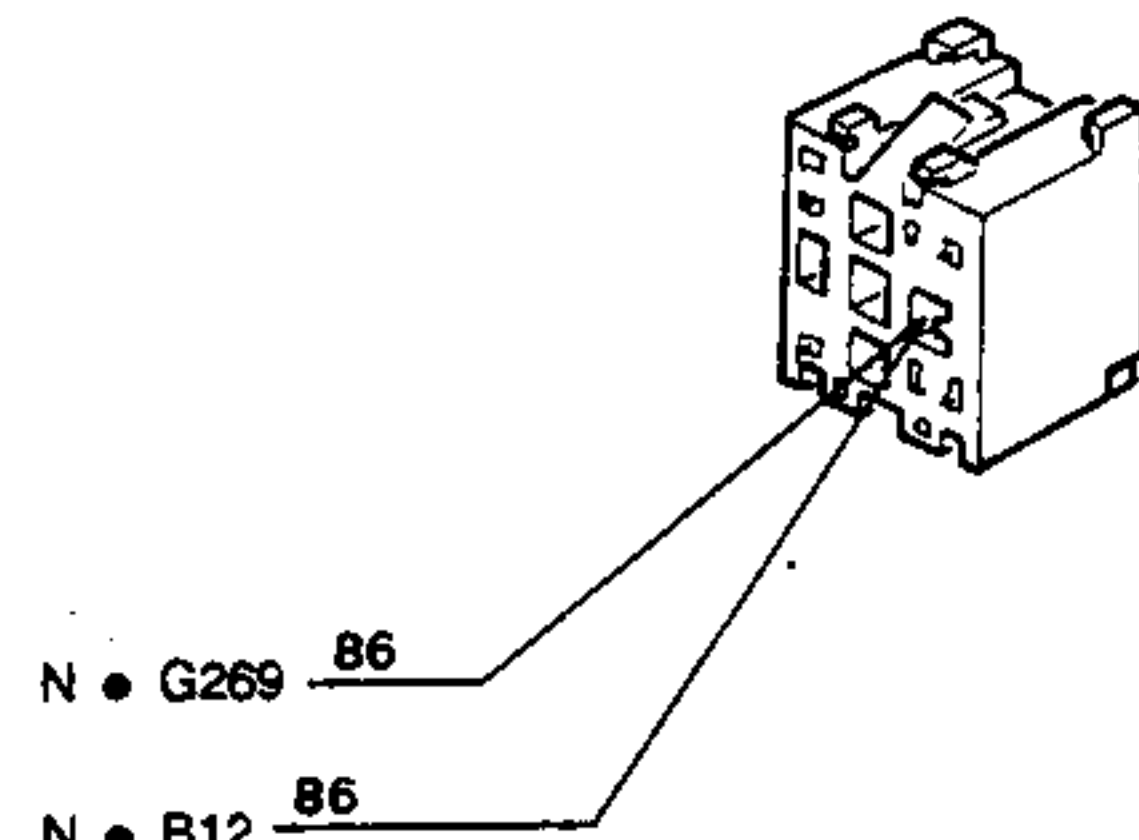
ELECTRICAL SYSTEM



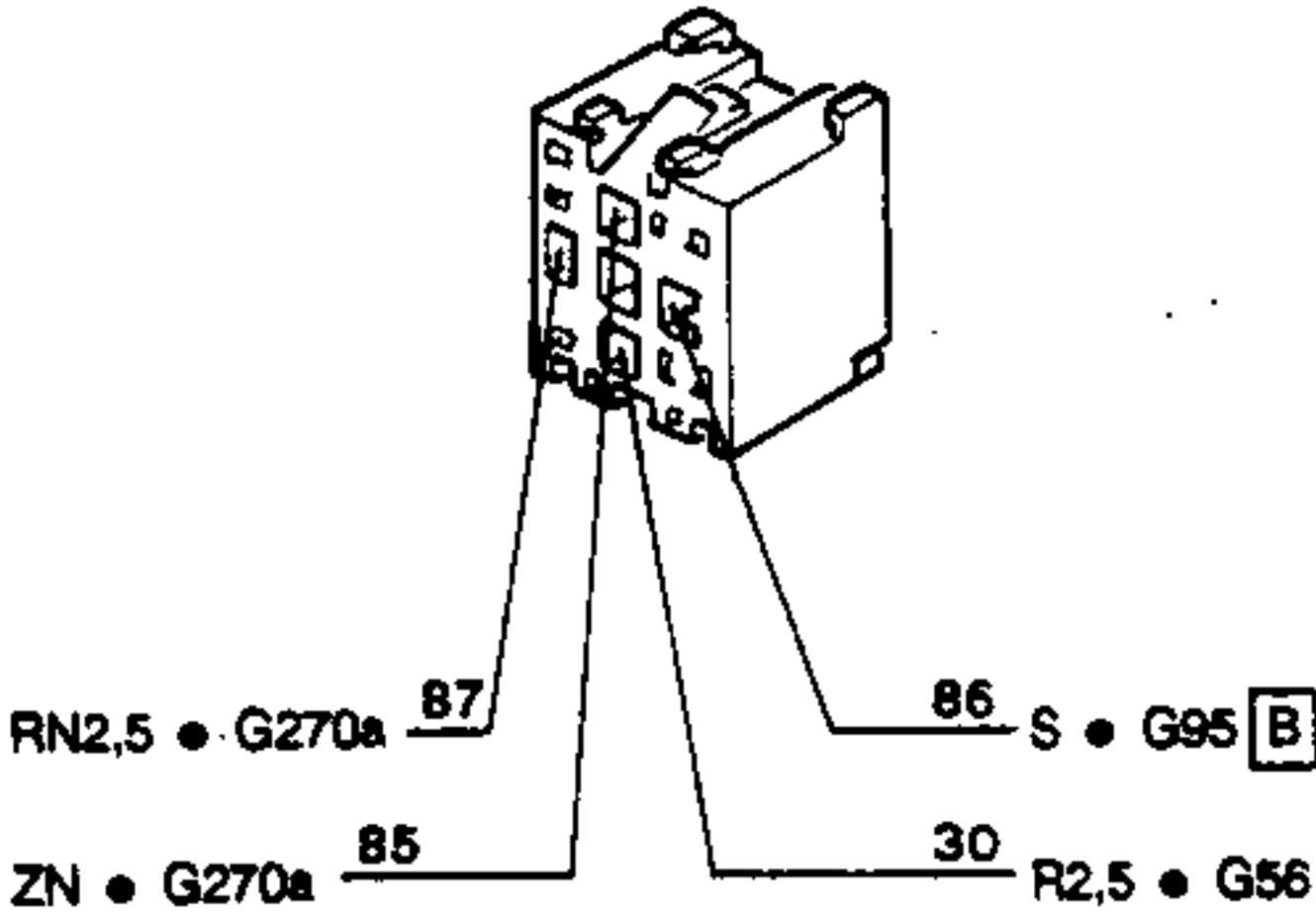
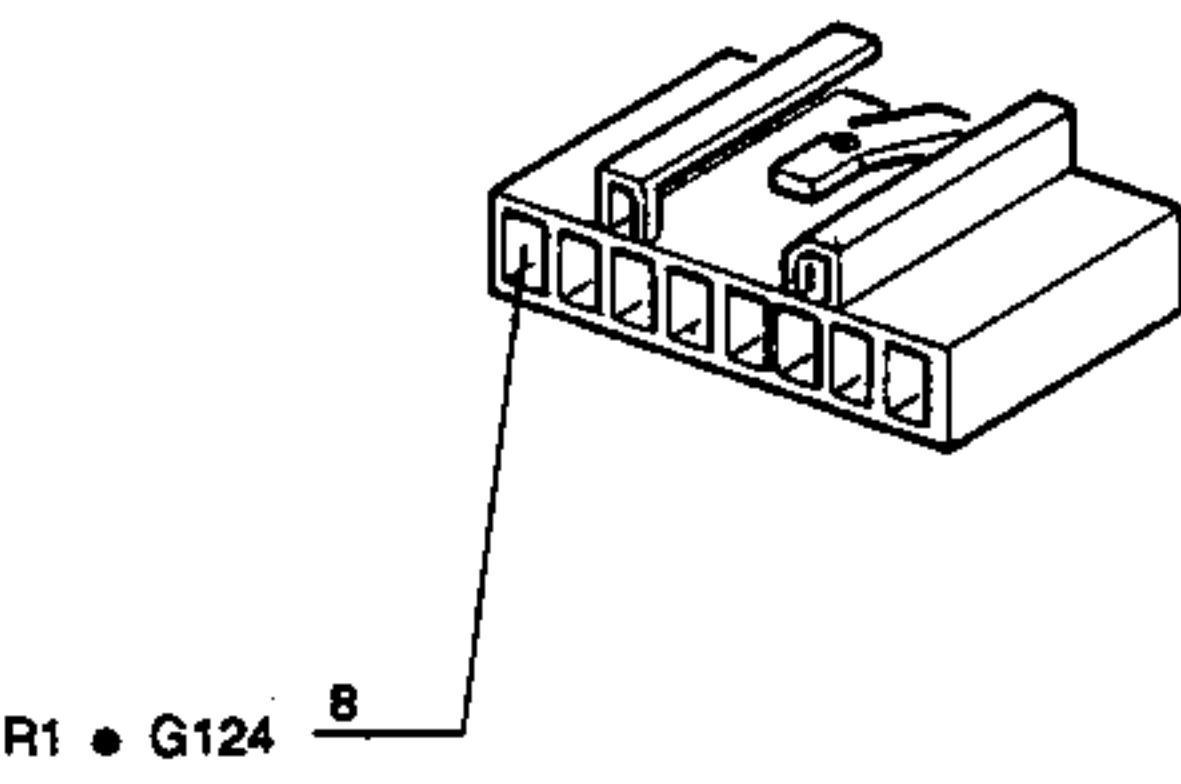
ELECTRICAL SYSTEM

<p>Central fusebox</p>	<p>G95 F</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N • B12 10</p> <p>N • N22 B 10</p>		 <p>N1,5 • G283 1</p>	
<p>33.90.005</p>	<p>33.90.005</p>	<p>33.90.005</p>	<p>33.90.005</p>
<p>Central fusebox</p>	<p>G95 H</p>	<p>ABS system compartment earth</p>	<p>G124</p>
 <p>B1 • H3 5</p> <p>B • H3 5</p> <p>M1,5 • B1 2</p>		 <p>R1 • N22 D 3</p> <p>R1 • G270a 3</p>	
<p>33.90.004</p>	<p>33.90.004</p>	<p>33.90.018</p>	<p>33.90.018</p>
<p>Central service compartment earth</p>	<p>G143</p>	<p>Glove compartment lamp connection</p>	<p>G269</p>
 <p>N10 • A1 (-)</p>		 <p>N • I12 2</p> <p>N • C10 B 2</p>	
<p>33.90.001</p>	<p>33.90.001</p>	<p>33.90.013</p>	<p>33.90.013</p>

# ELECTRICAL SYSTEM

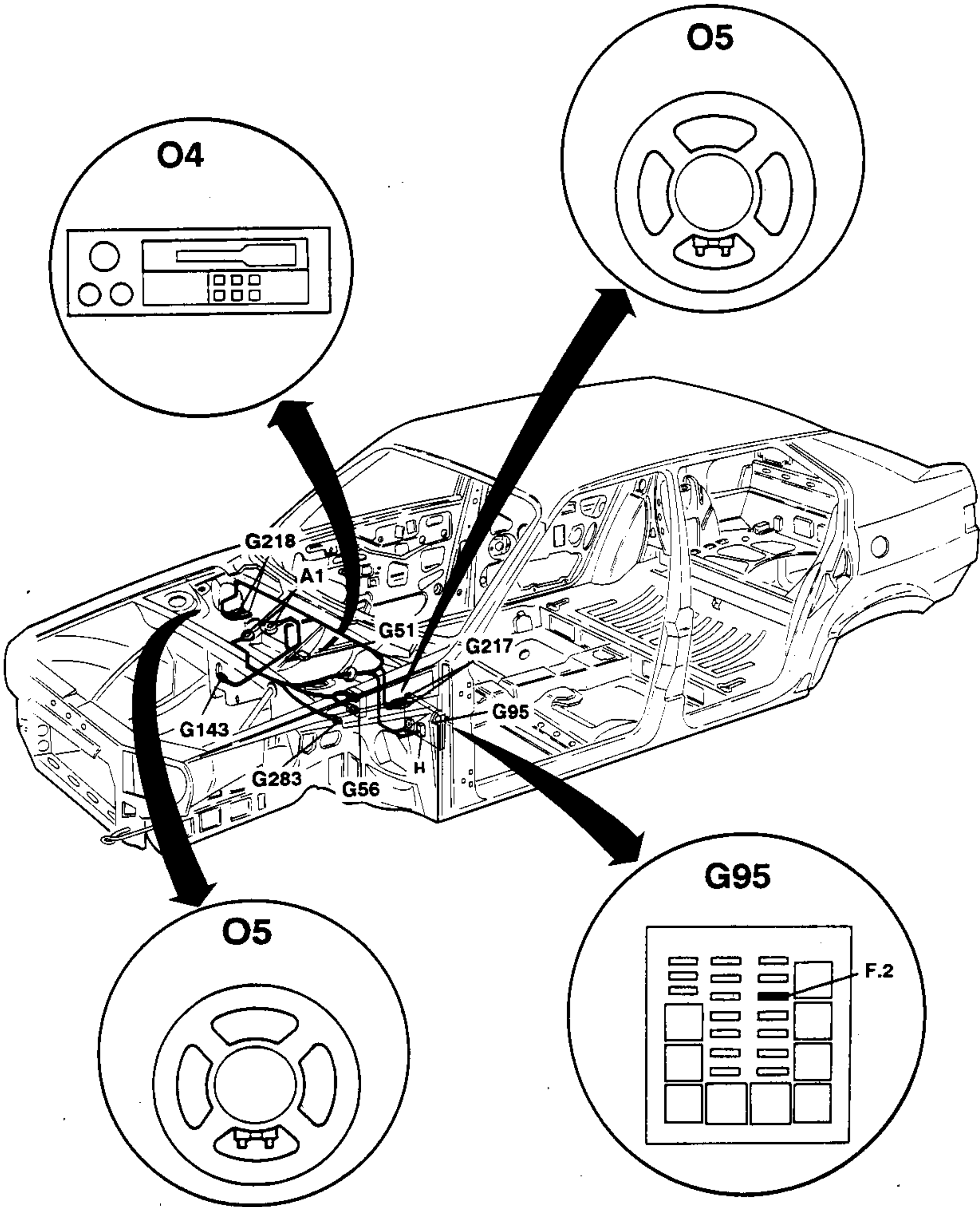
<p style="text-align: center;"><b>Dashboard wiring - four-wheel drive wiring (six-way) connector</b></p> <p style="text-align: right;"><b>G270a</b></p>	<p style="text-align: center;"><b>Dashboard wiring - four-wheel drive wiring (four-way) connector</b></p> <p style="text-align: right;"><b>G270b</b></p>
 <p>SN • G95 <b>A</b> 6</p> <p>MB • H49 5</p> <p>R1 • H3 4</p> <p>2 RN2,5 • I76</p> <p>3 ZN • I76</p> <p>4 R1 • G124</p> <p style="text-align: right;">33.90.036</p>	 <p>Screening 2</p> <p>B0,35 • C10 <b>B</b> 3</p> <p>4 R0,35 • C10</p> <p style="text-align: right;">33.90.018</p>
<p style="text-align: center;"><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>	<p style="text-align: center;"><b>Stop light switch</b></p> <p style="text-align: right;"><b>H3</b></p>
 <p>N1,5 • G95 <b>G</b></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p style="text-align: right;">33.90.001</p>	 <p>R1 • G270a</p> <p>B • G95 <b>H</b></p> <p>B1 • G95 <b>H</b></p> <p>AR • N22 <b>A</b></p> <p style="text-align: right;">33.90.037 - 33.90.021</p>
<p style="text-align: center;"><b>Supplementary stop light switch</b></p> <p style="text-align: right;"><b>H49</b></p>	<p style="text-align: center;"><b>Front power window relay</b></p> <p style="text-align: right;"><b>I12</b></p>
 <p>MB • G270a</p> <p>SN • G95 <b>A</b></p> <p style="text-align: right;">33.90.037</p>	 <p>N • G269 86</p> <p>N • B12 86</p> <p style="text-align: right;">33.90.007</p>

ELECTRICAL SYSTEM

Four-wheel drive supply relay	I76	ALFA ROMEO Control - control unit	N22 <span style="border: 1px solid black; padding: 0 2px;">D</span>
 <p>Diagram showing the wiring for the Four-wheel drive supply relay (I76). The relay has four terminals: 87, 86, 85, and 30. The connections are as follows:</p> <ul style="list-style-type: none"><li>Terminal 87 is connected to RN2,5 • G270a.</li><li>Terminal 86 is connected to S • G95 <span style="border: 1px solid black; padding: 0 2px;">B</span>.</li><li>Terminal 85 is connected to ZN • G270a.</li><li>Terminal 30 is connected to R2,5 • G56.</li></ul> <p style="text-align: right;">33.90.007</p>		 <p>Diagram showing the wiring for the ALFA ROMEO Control - control unit (N22). The control unit has a terminal labeled B, which is connected to R1 • G124.</p> <p style="text-align: right;">33.90.024</p>	




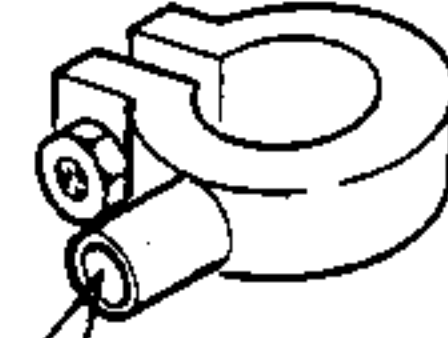
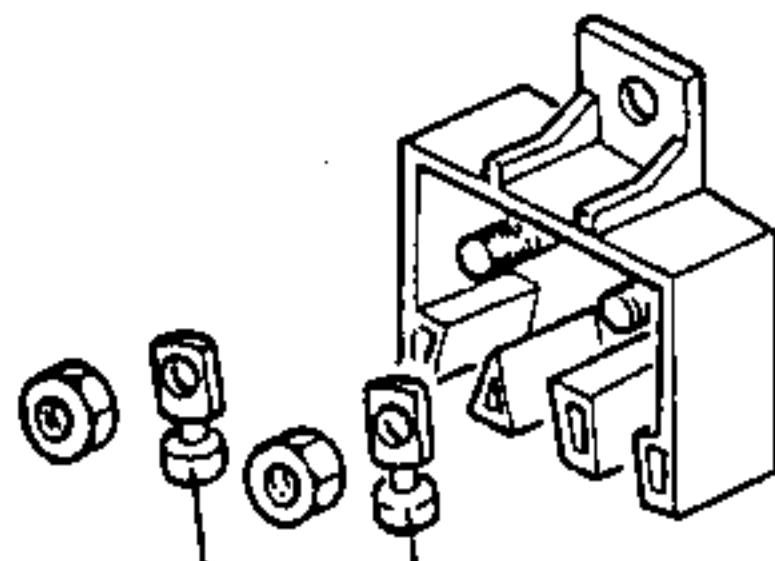

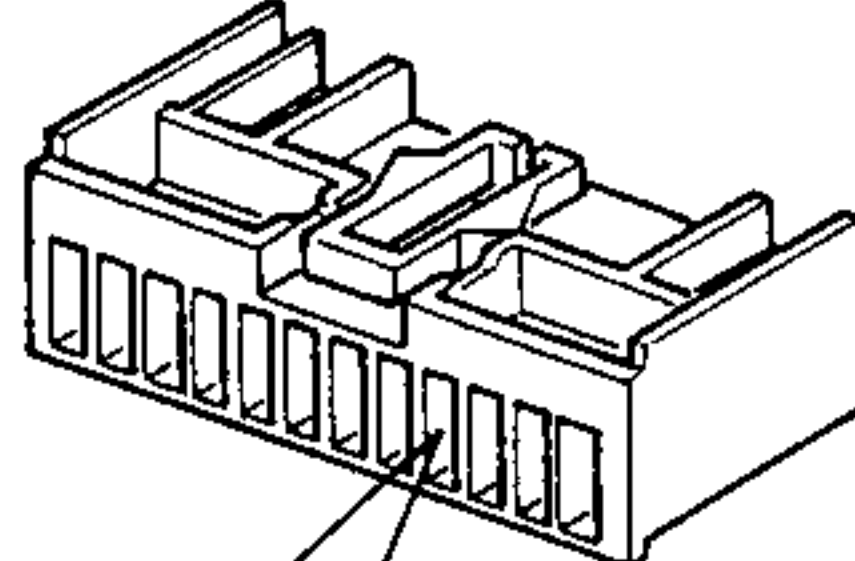

Wiring



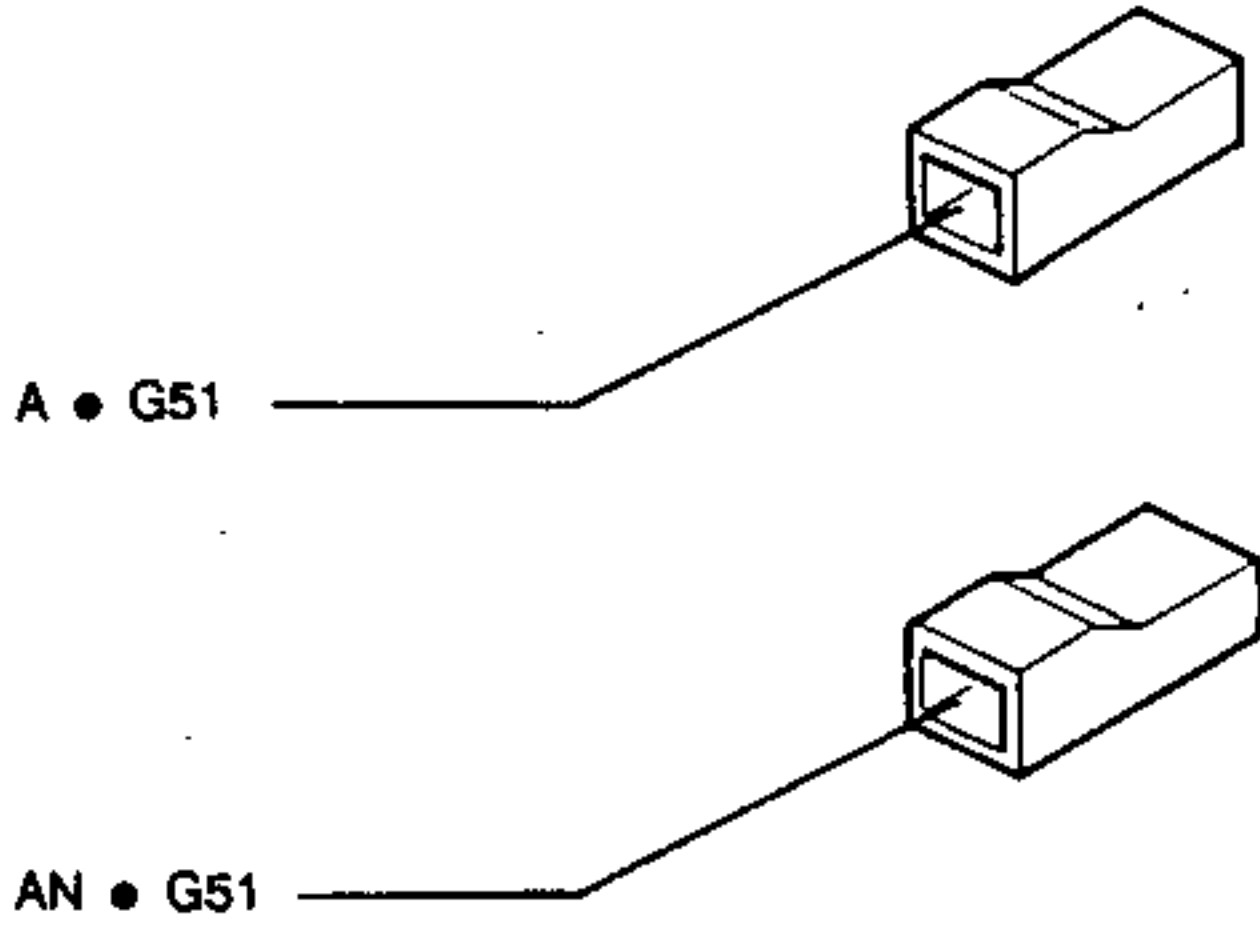
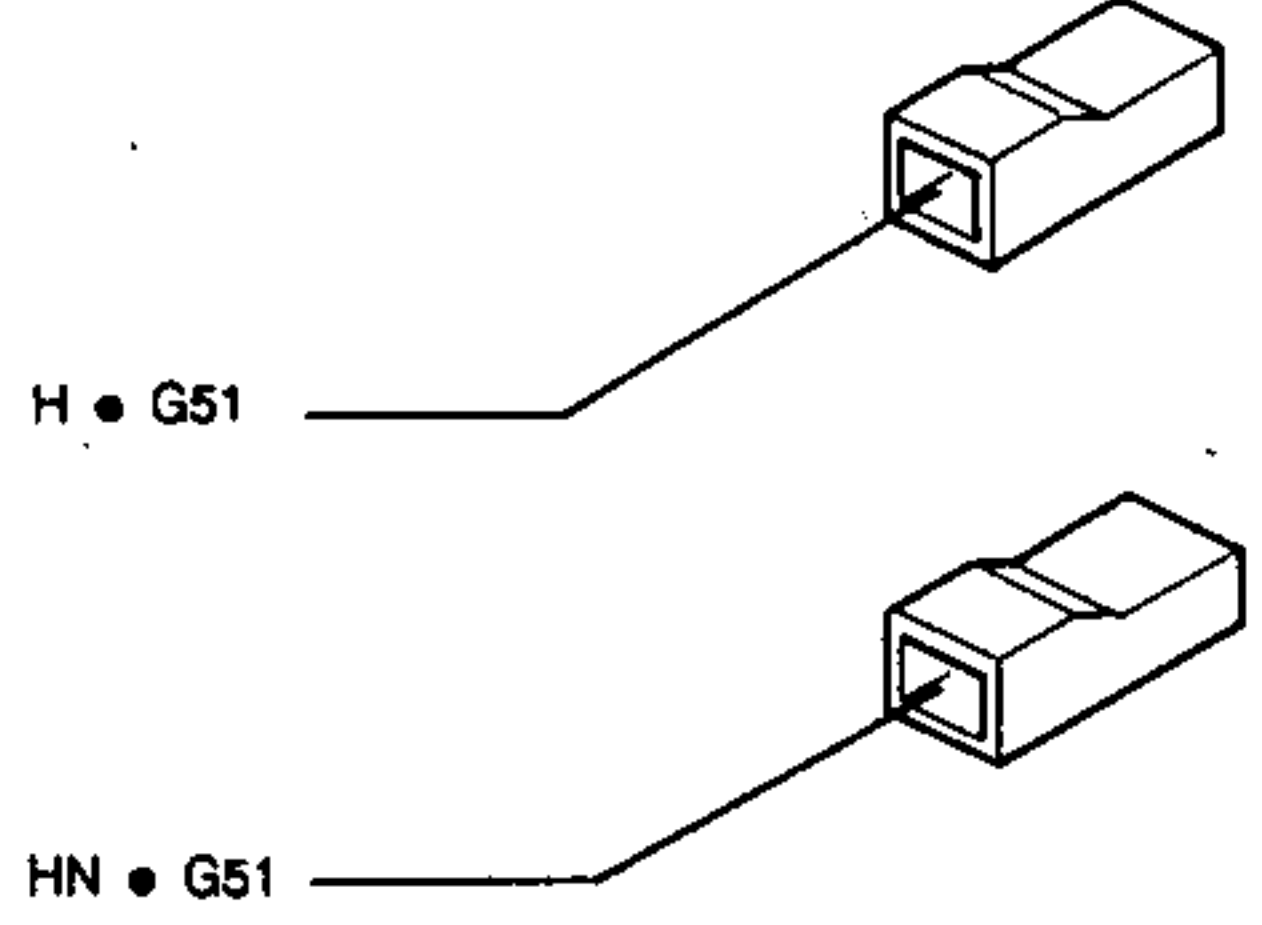
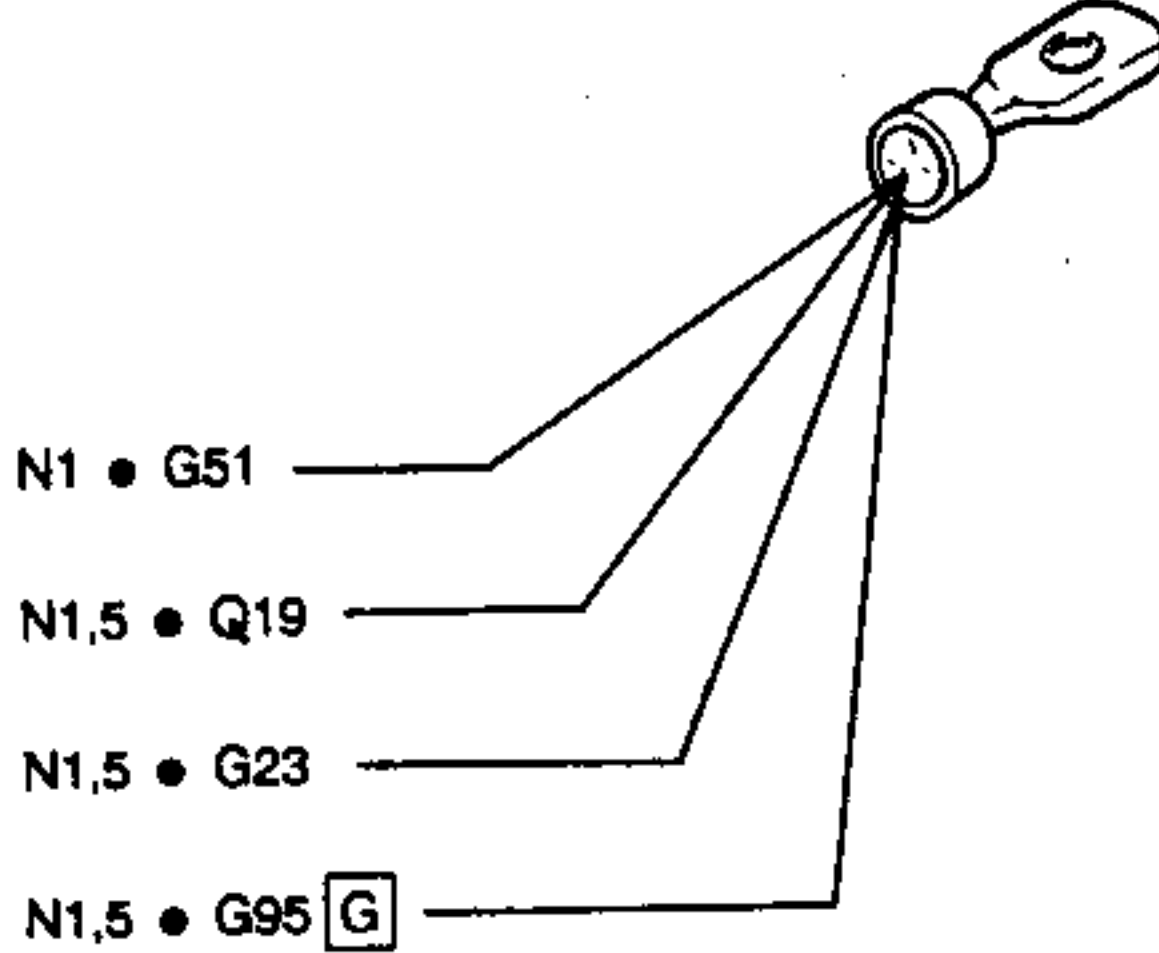
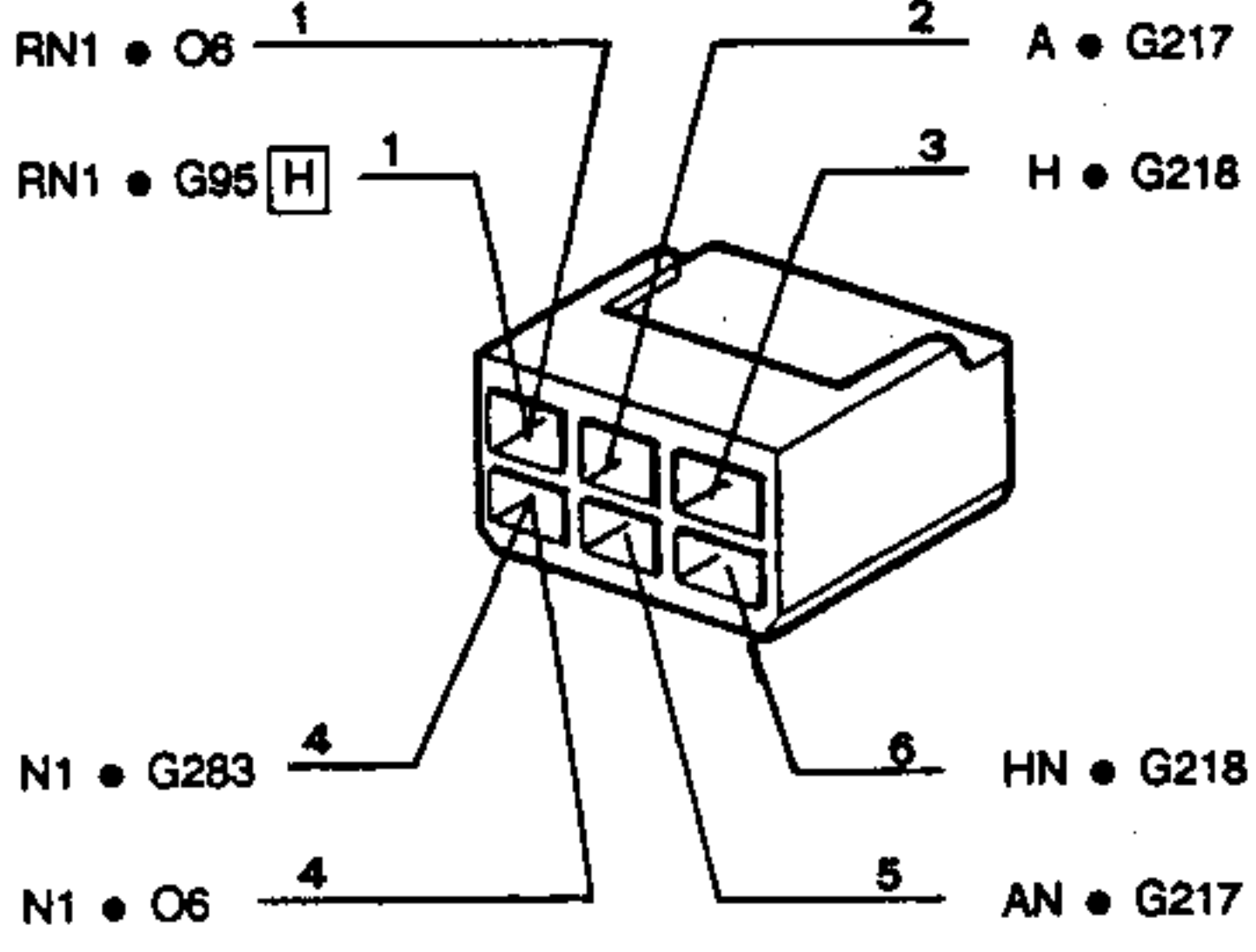


ELECTRICAL SYSTEM

Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox (+)</p>	<p>G95</p>
 <p>R10 • A1 (+)</p> <p>R10 • G95 (+)</p> <p>33.90.009</p>		 <p>R10 • G56</p> <p>33.90.006</p>	
<p>Central fusebox</p>	<p>G95 H</p>	<p>Central service compartment earth</p>	<p>G143</p>
 <p>RN • F7 4</p> <p>RN1 • G51 4</p> <p>33.90.004</p>		 <p>N10 • A1 (-)</p> <p>33.90.001</p>	

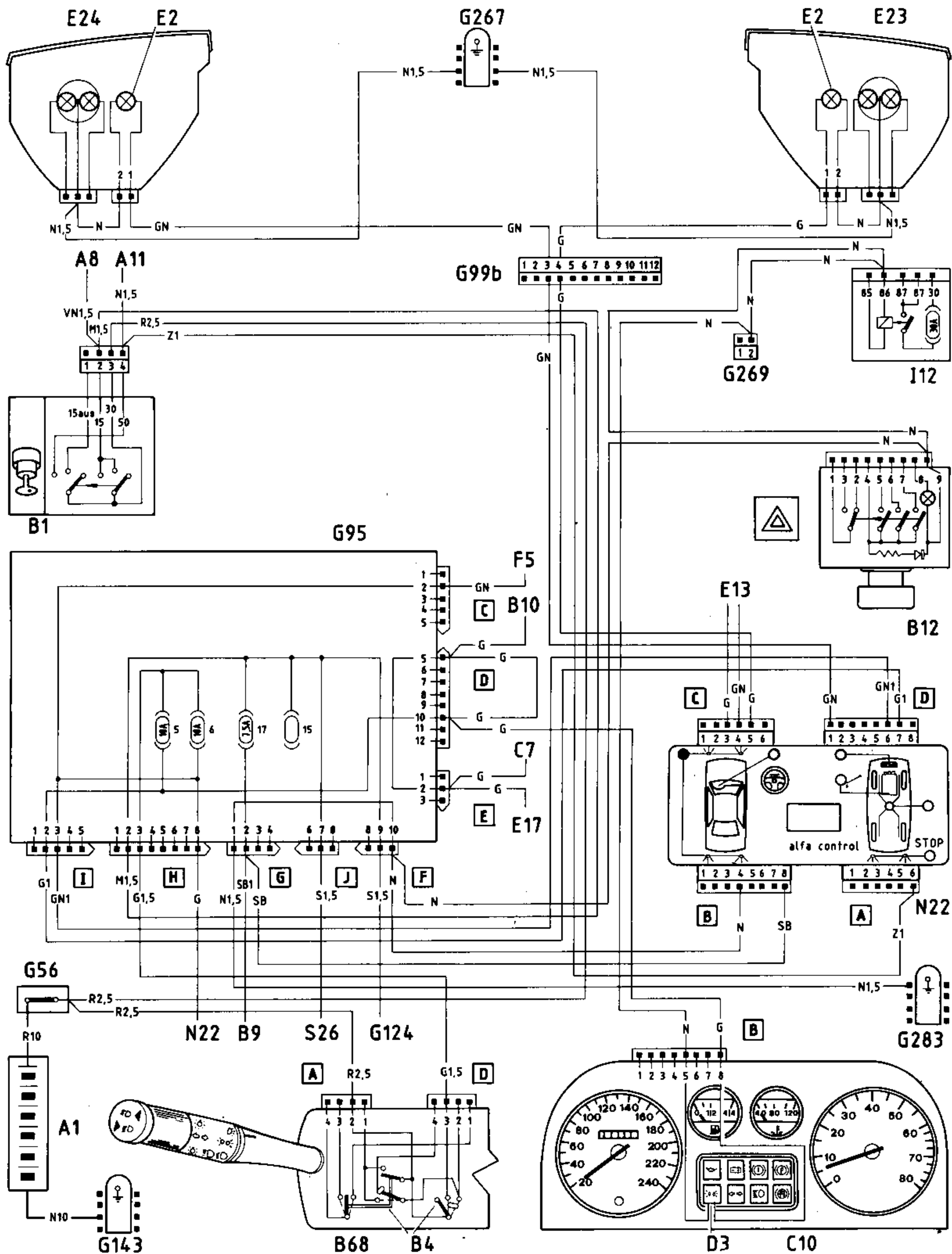
**ELECTRICAL SYSTEM**

Front left loudspeaker preset connection	G217	Front right loudspeaker preset connection	G218
 <p>A • G51</p> <p>AN • G51</p> <p align="right">33.90.015</p>		 <p>H • G51</p> <p>HN • G51</p> <p align="right">33.90.015</p>	
Earth on left service compartment	G283	Car radio (G51)	
 <p>N1 • G51</p> <p>N1,5 • Q19</p> <p>N1,5 • G23</p> <p>N1,5 • G95 [G]</p> <p align="right">33.90.001</p>		 <p>RN1 • O6 1</p> <p>RN1 • G95 [H] 1</p> <p>A • G217 2</p> <p>H • G218 3</p> <p>N1 • G283 4</p> <p>N1 • O6 4</p> <p>HN • G218 6</p> <p>AN • G217 5</p> <p align="right">33.90.093</p>	

# EXTERIOR LIGHTING

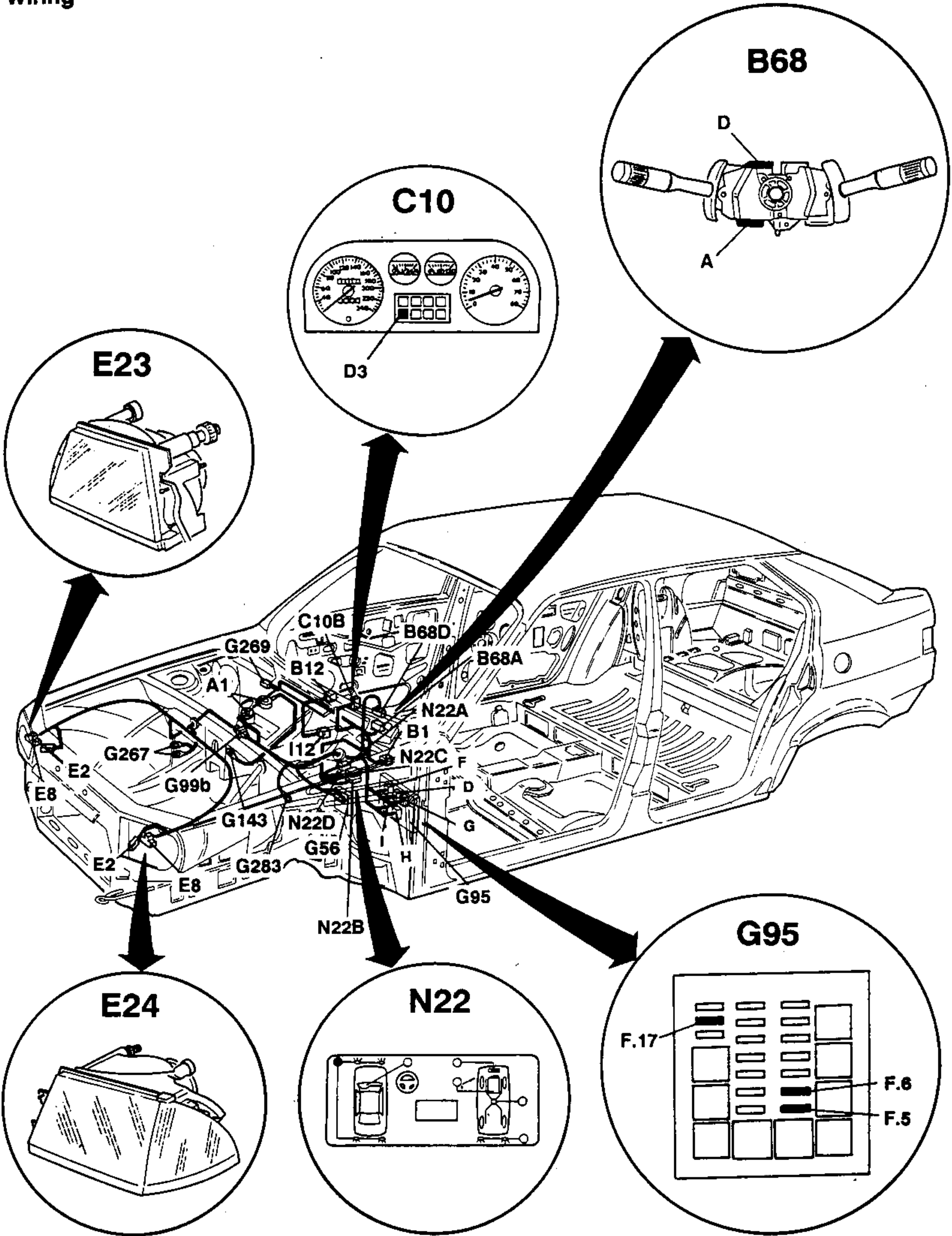
## SIDE LIGHTS (Front)

### Wiring diagram



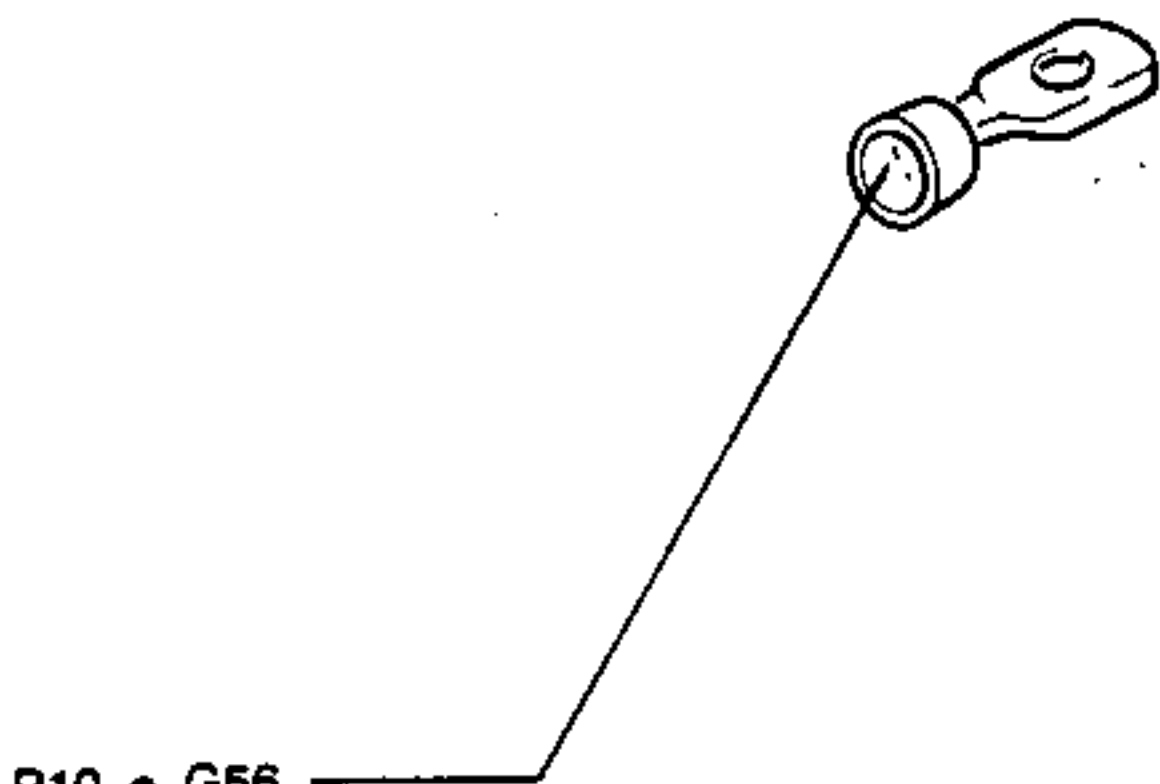
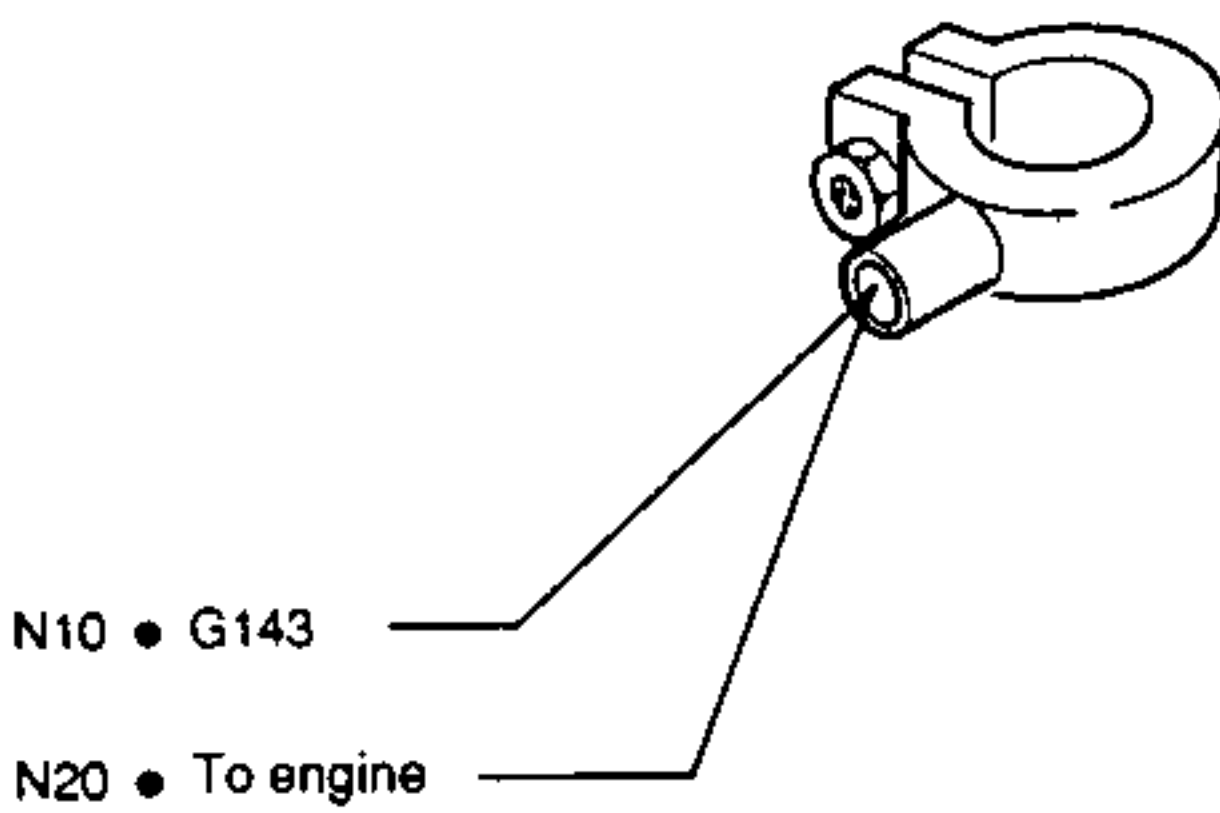
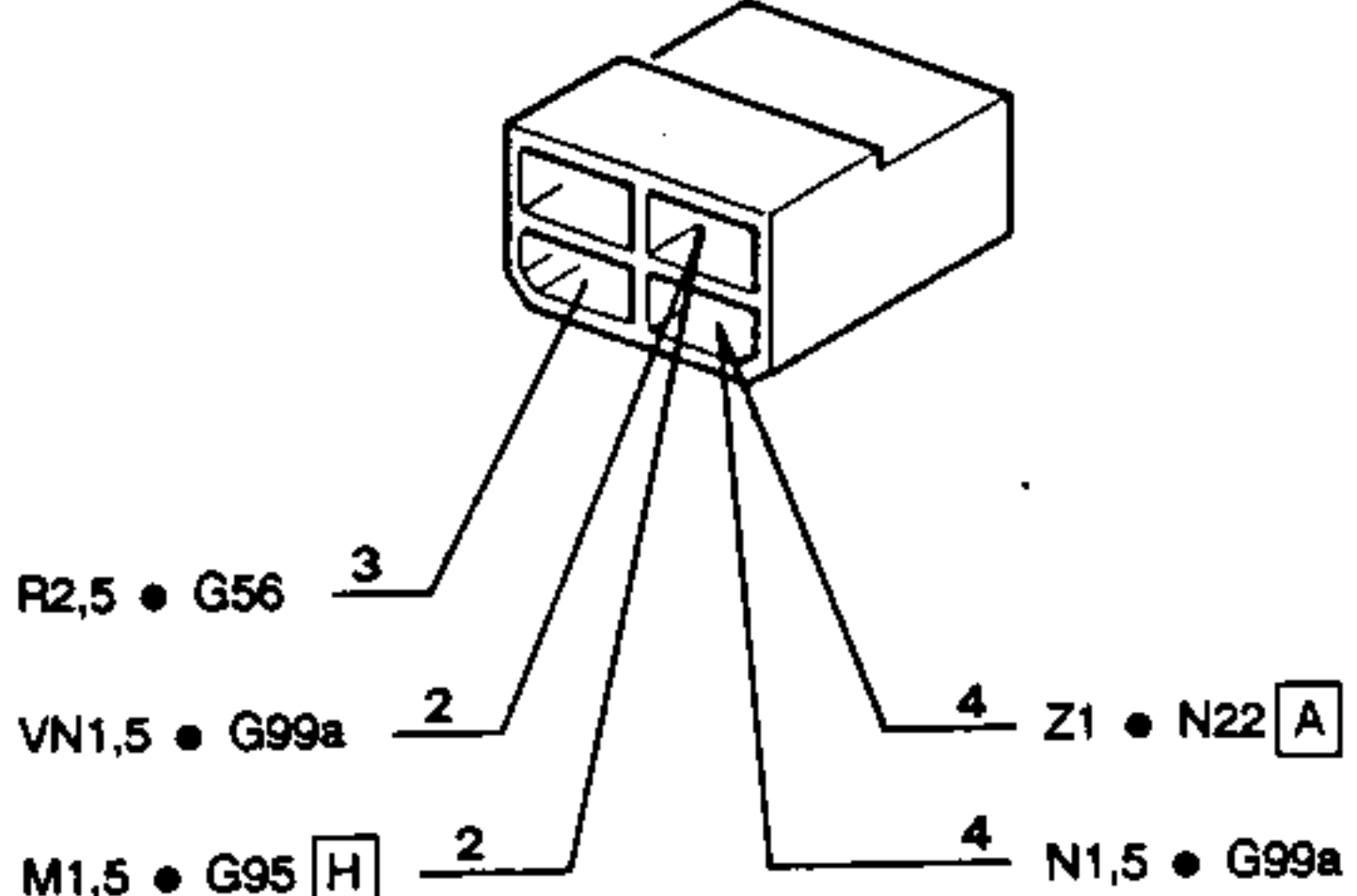
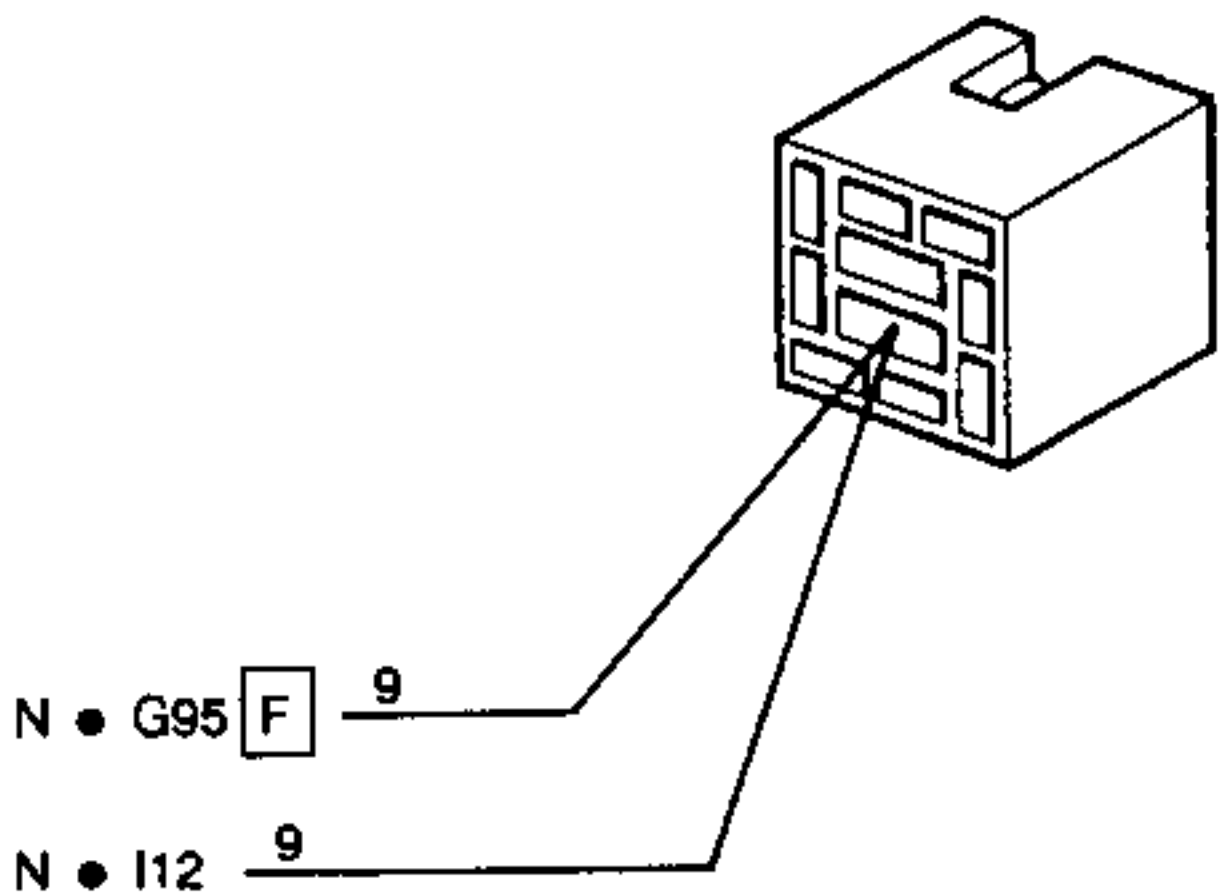
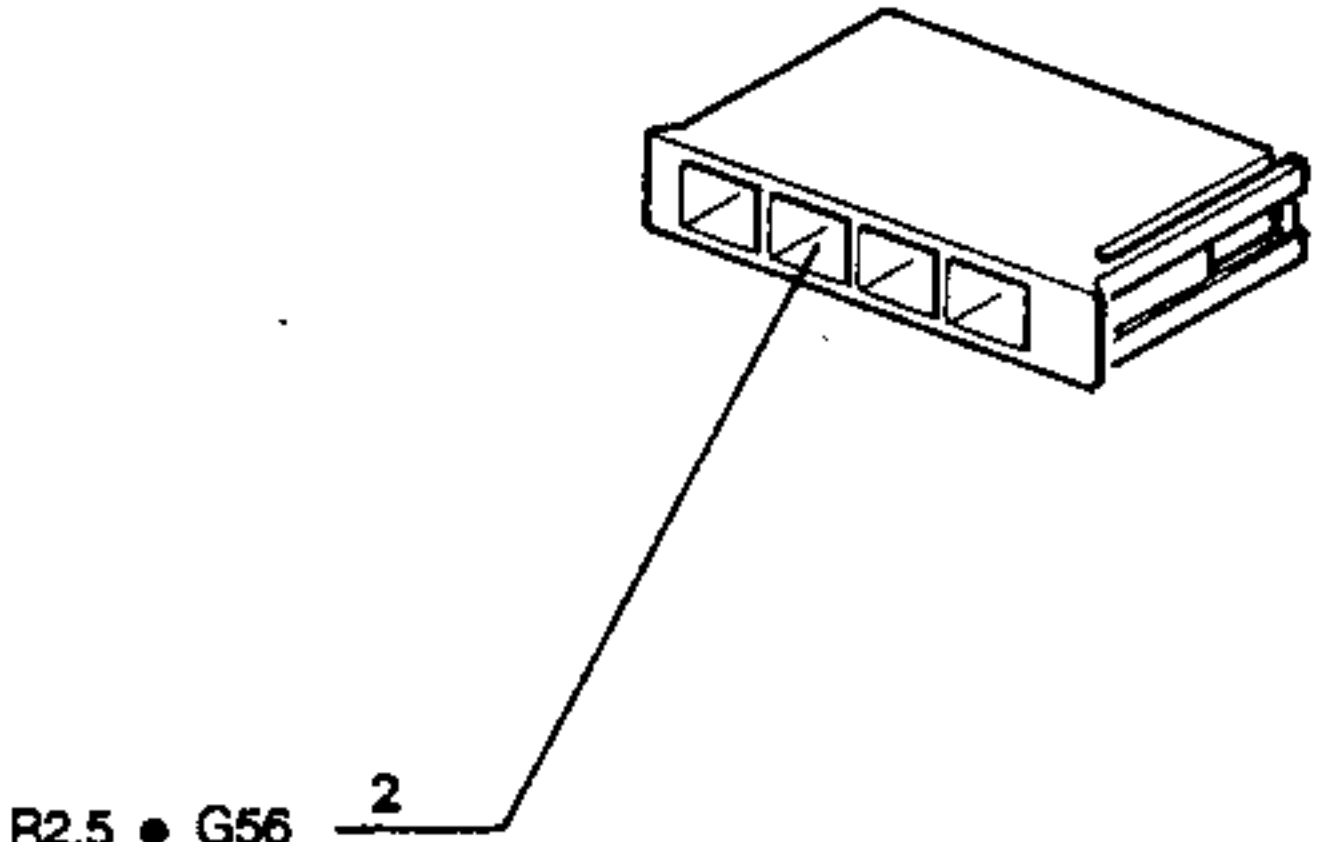
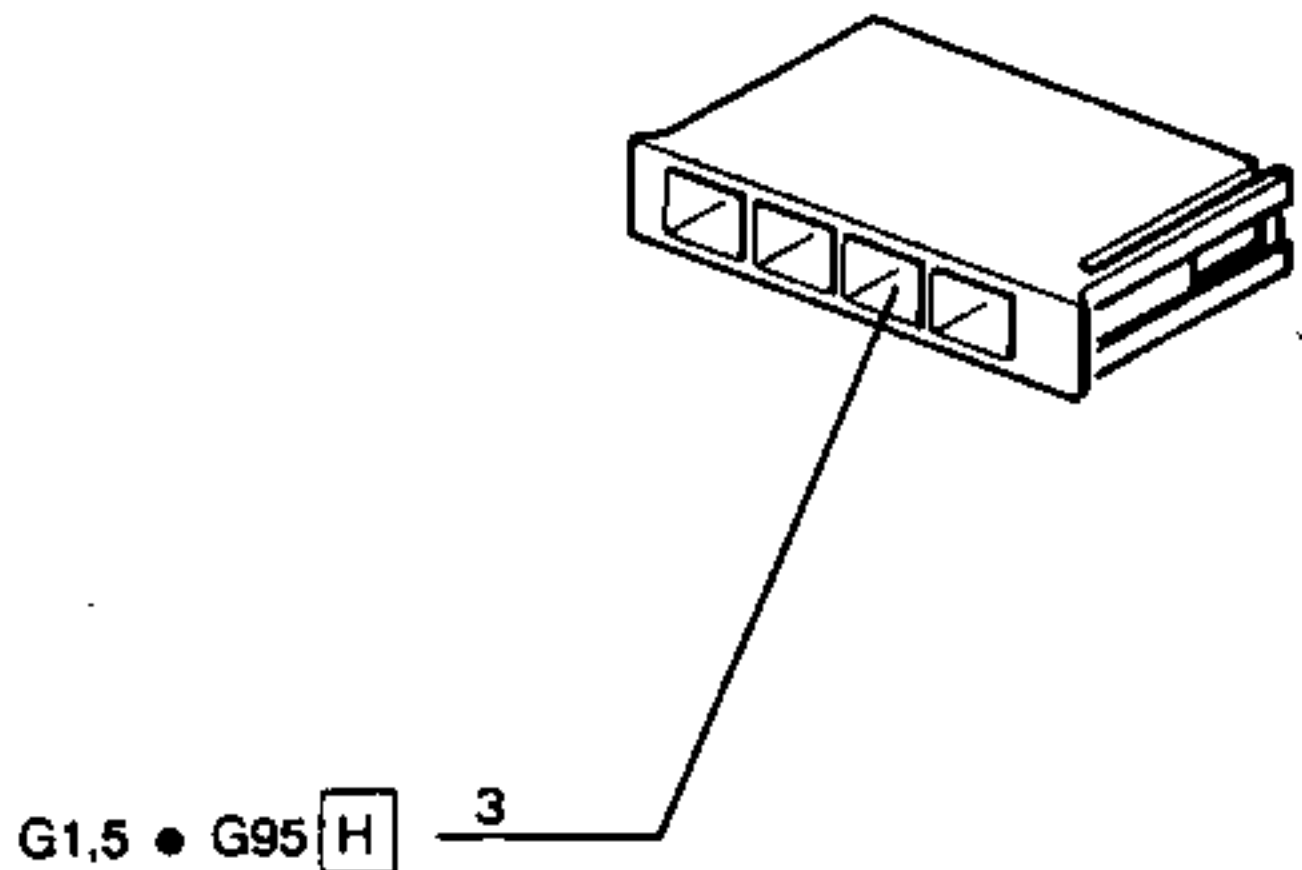
# ELECTRICAL SYSTEM

## Wiring

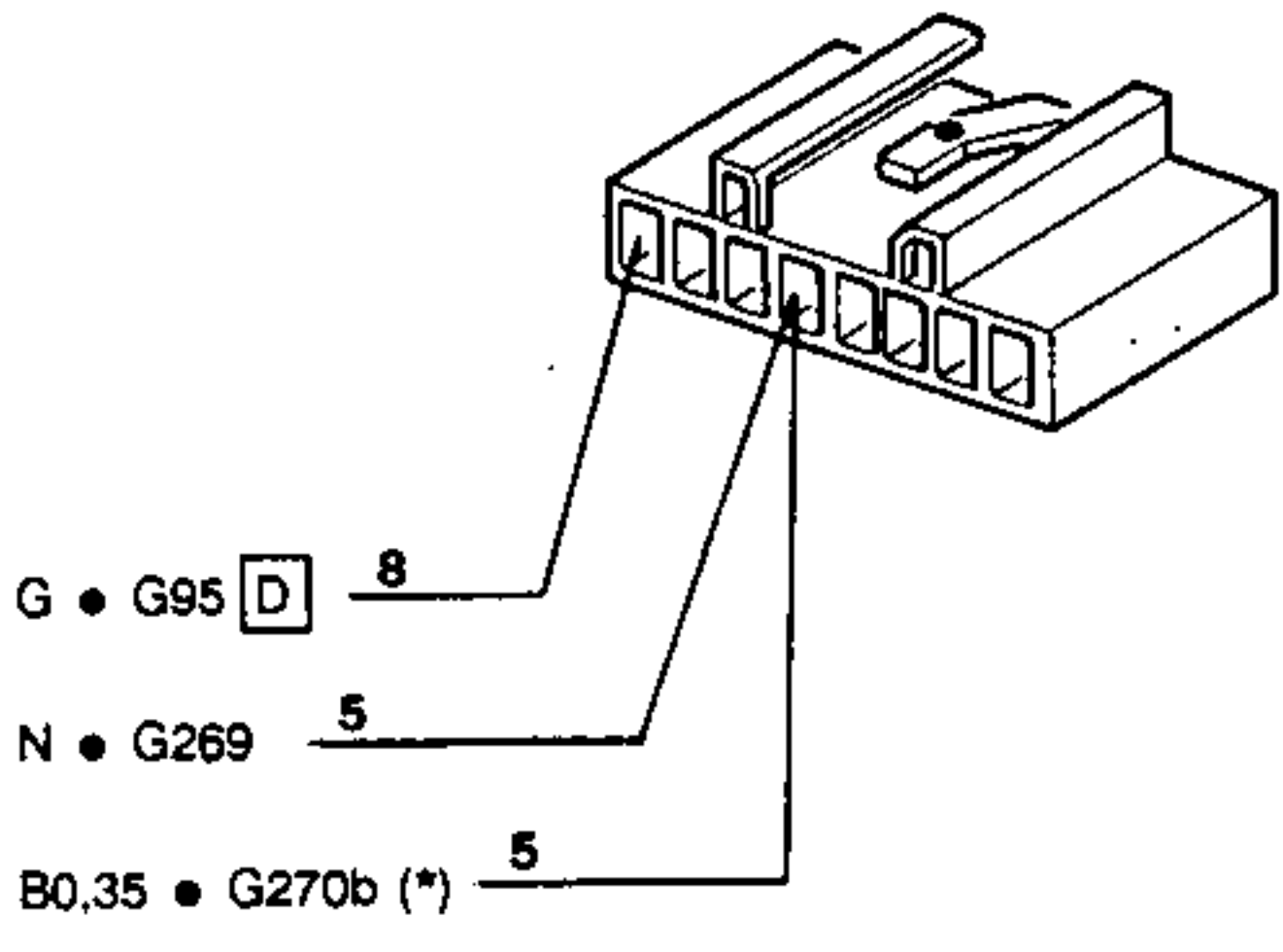
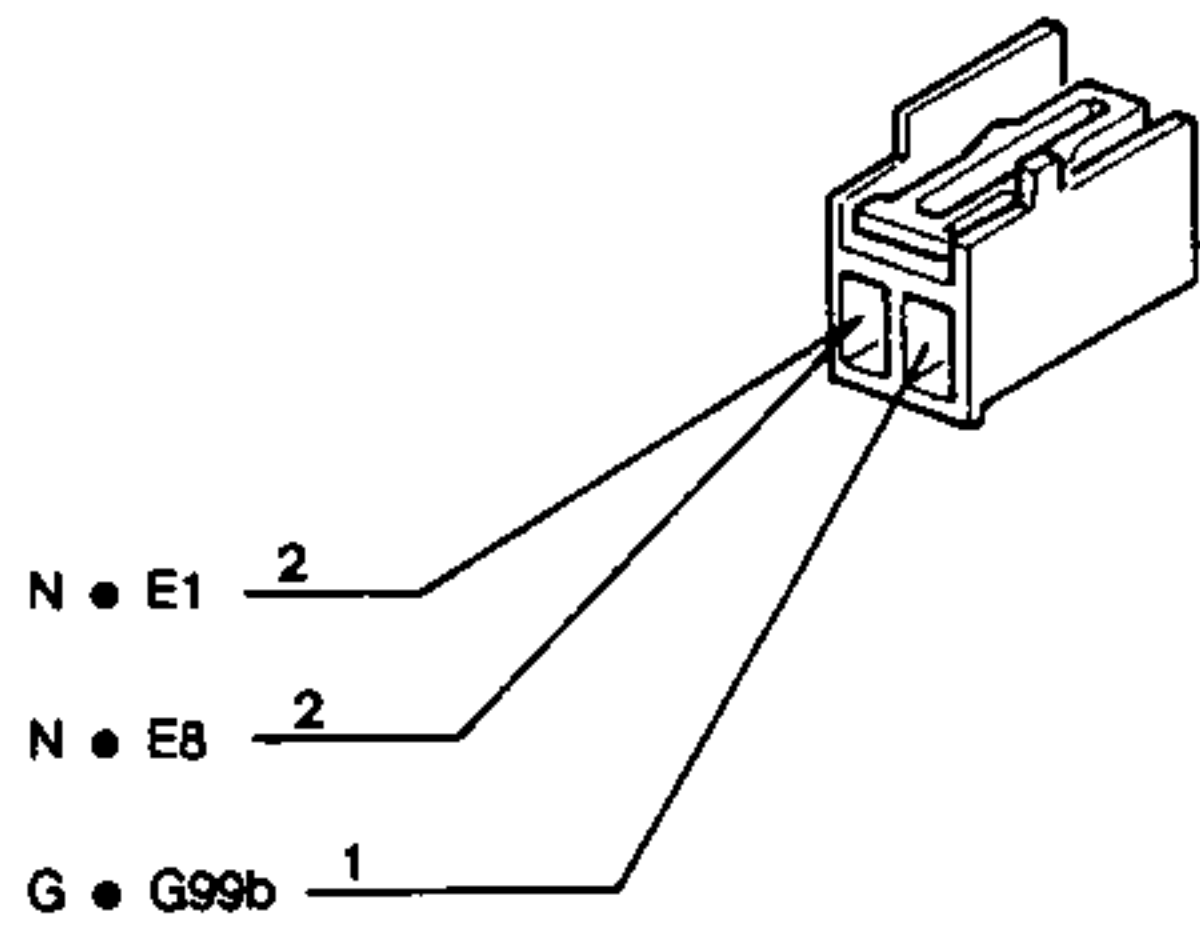
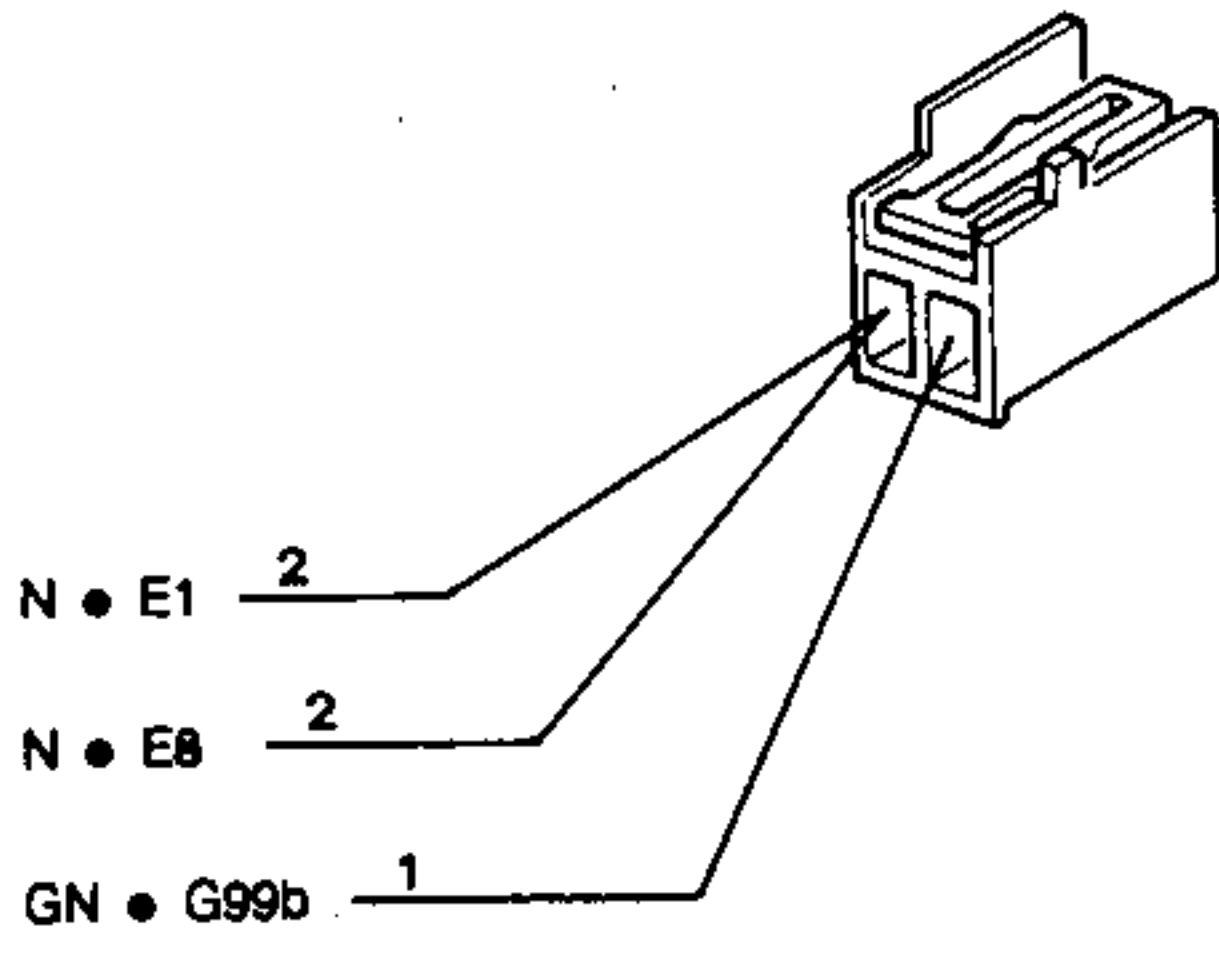
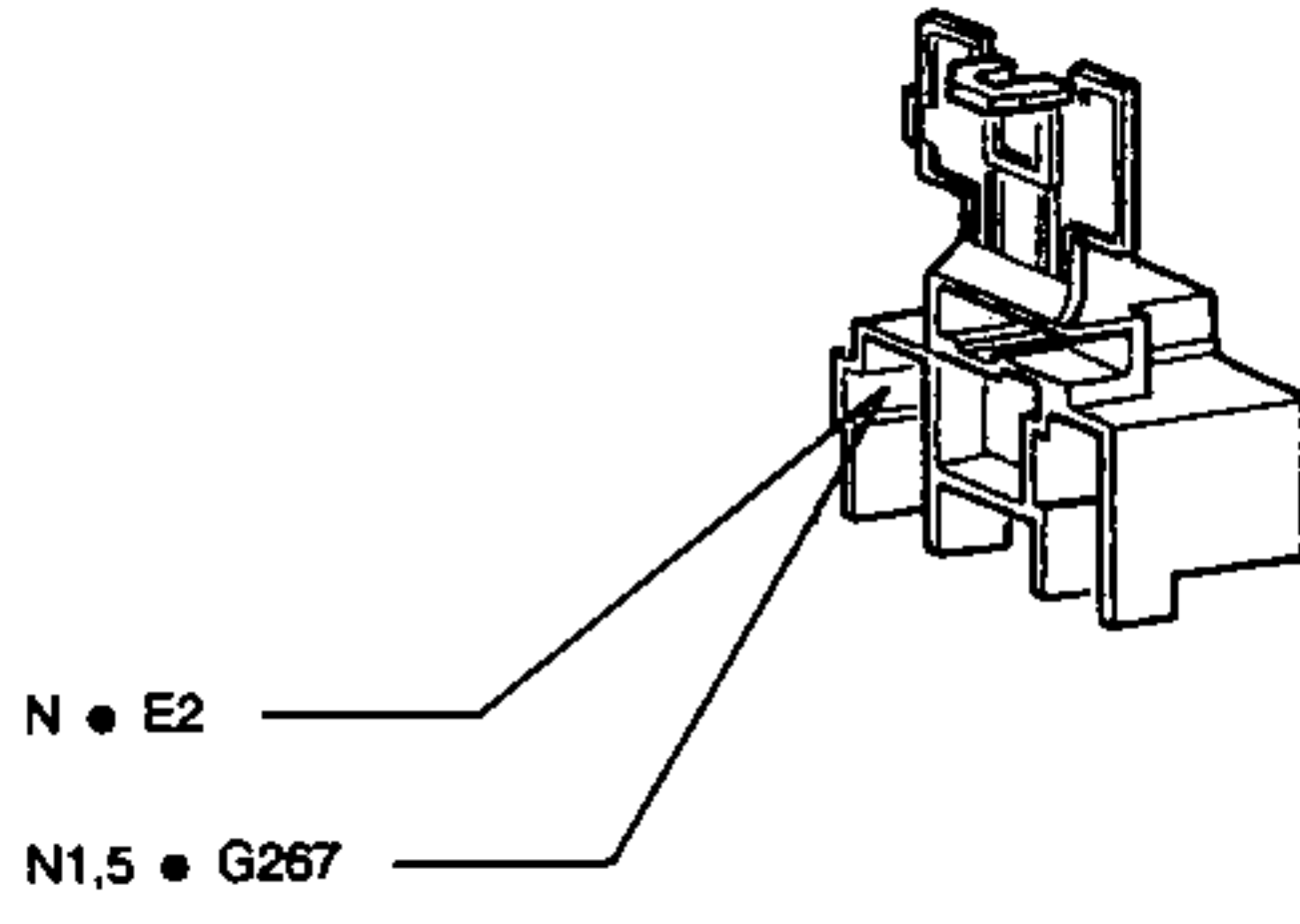
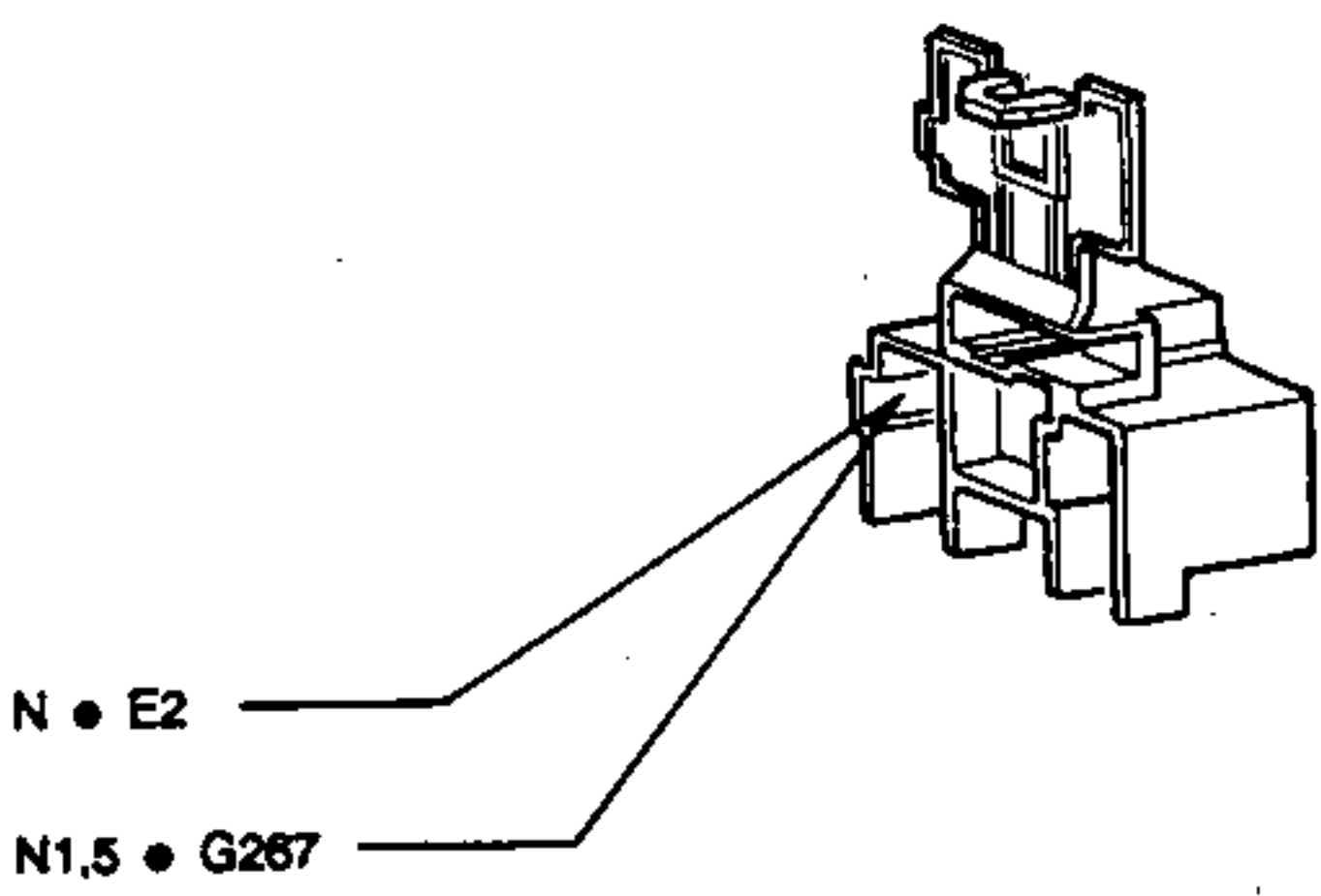
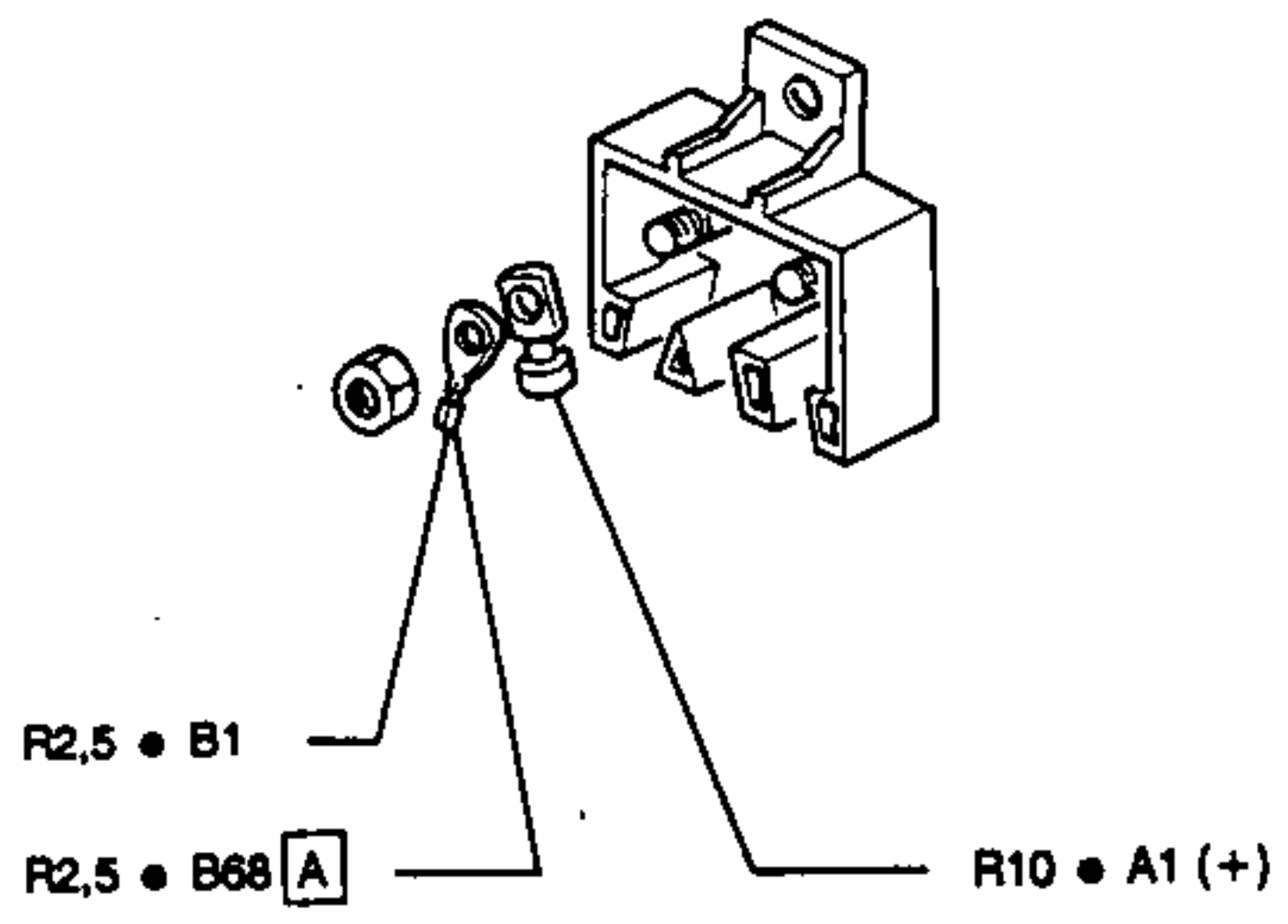


ELECTRICAL SYSTEM

Connectors

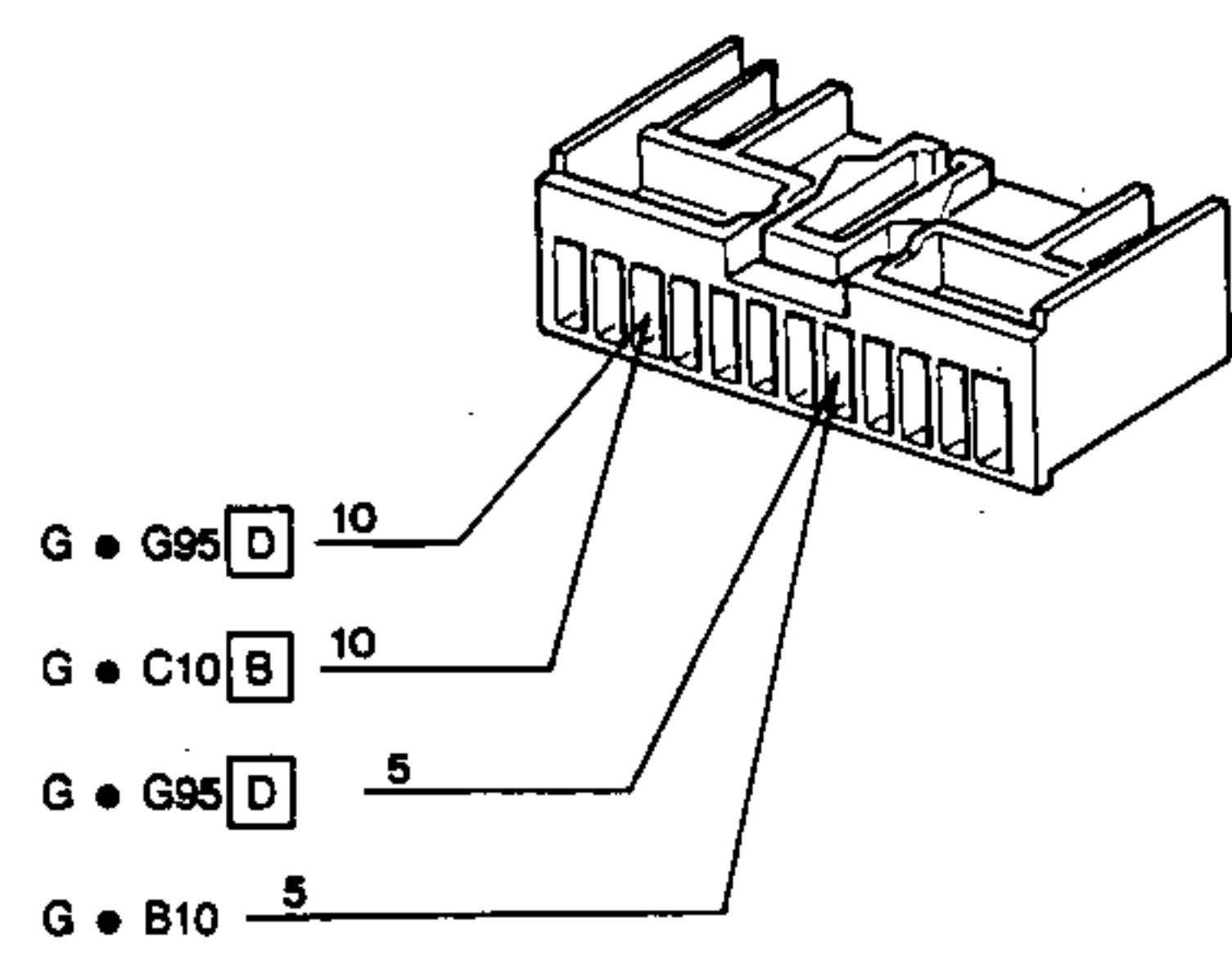
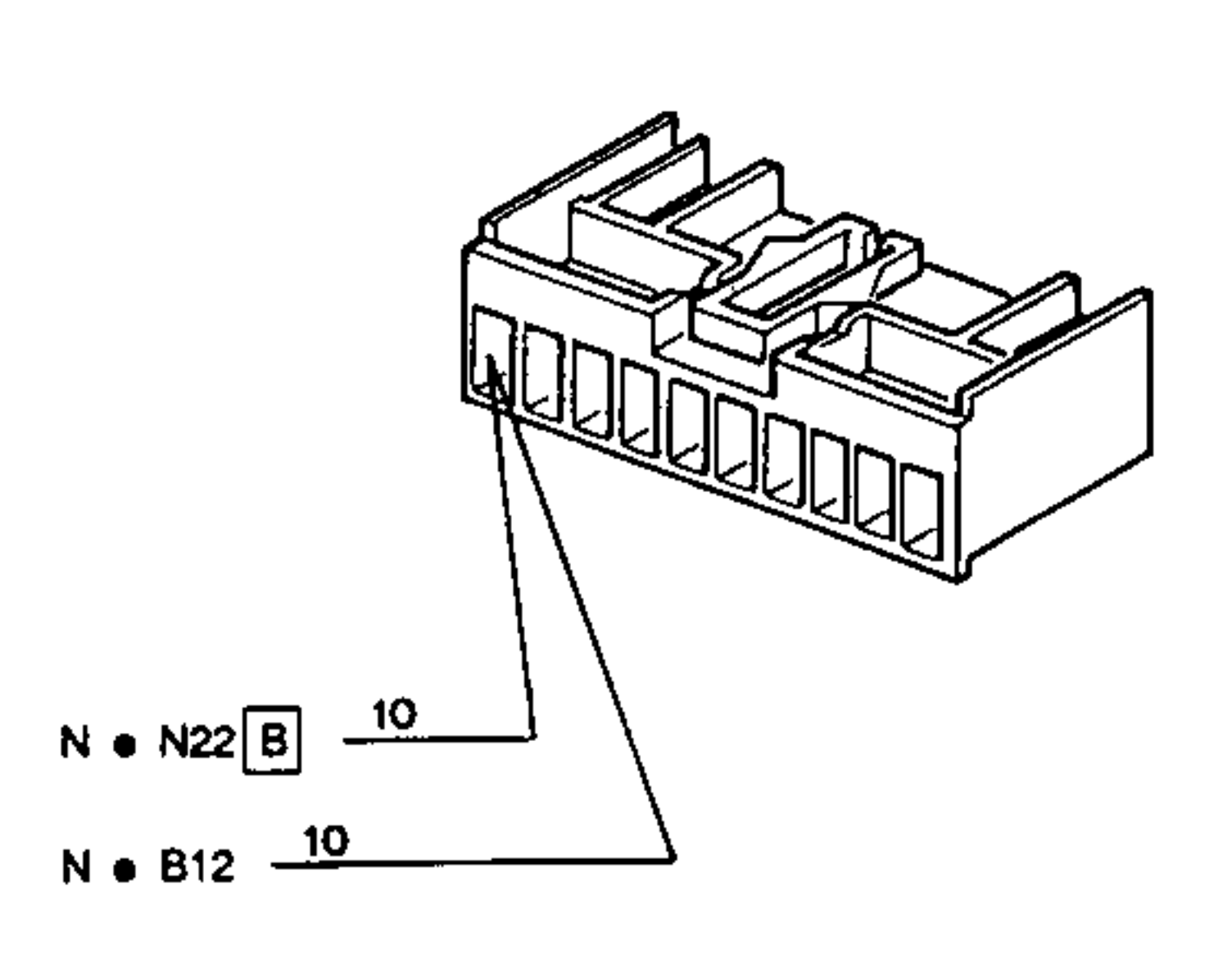
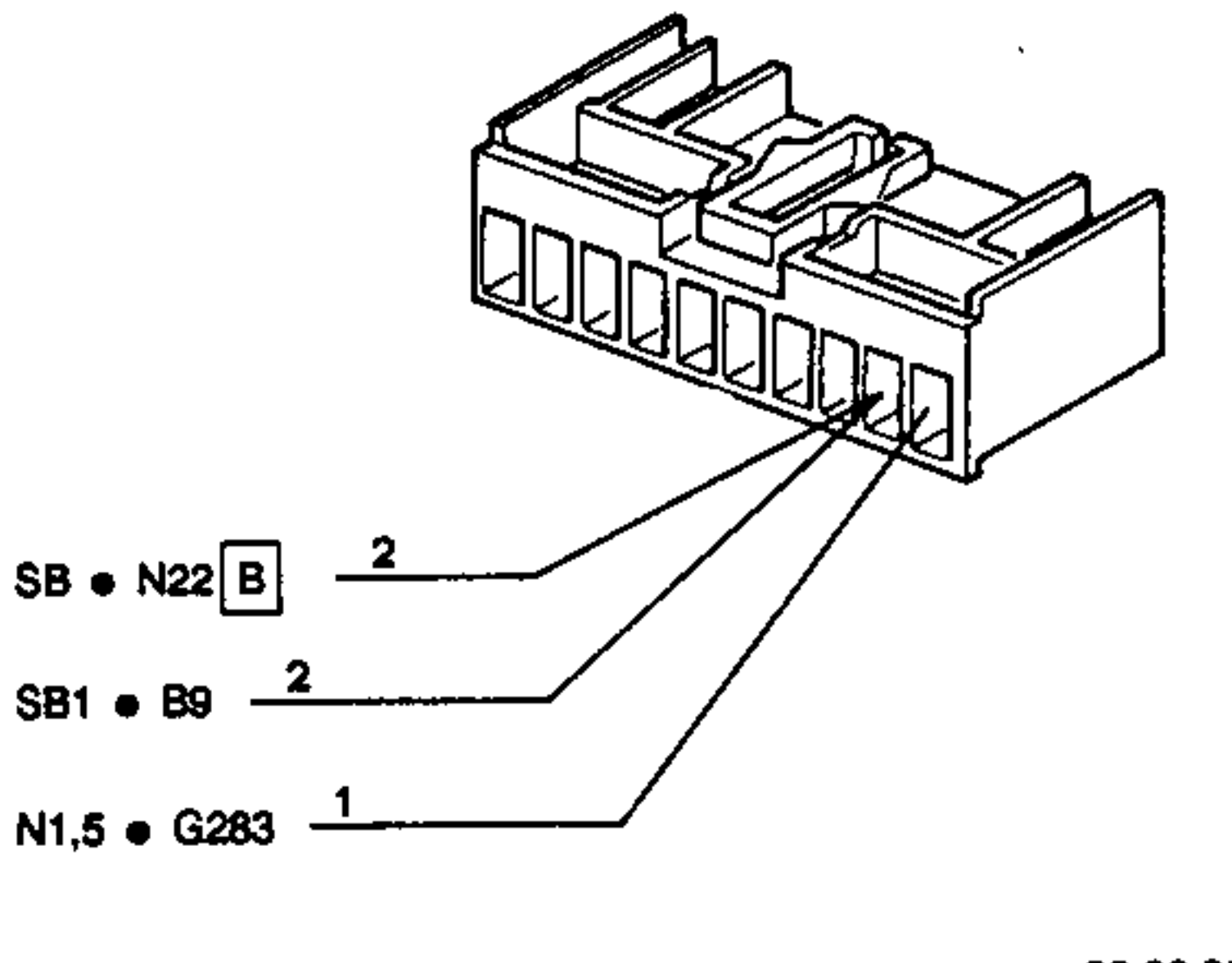
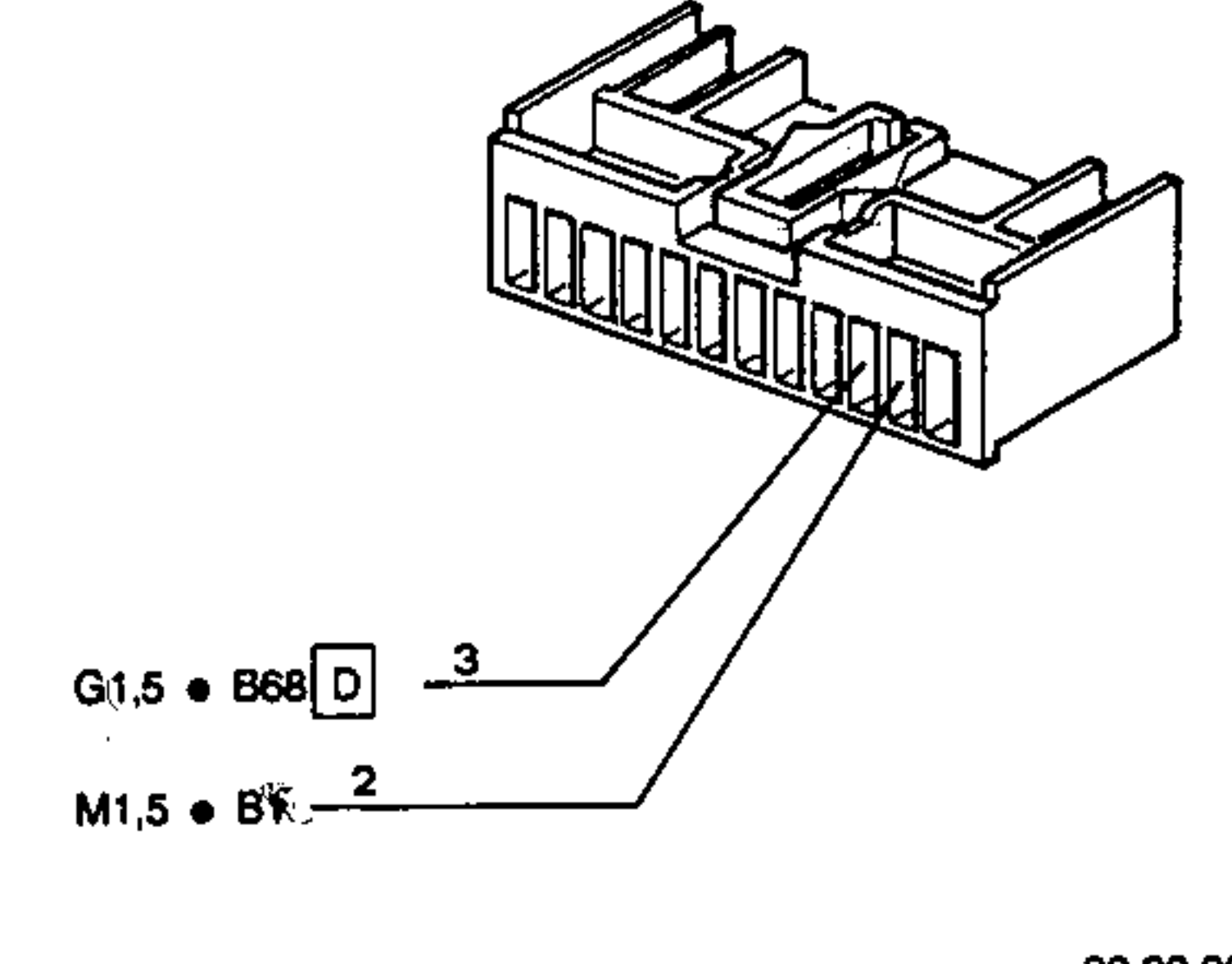
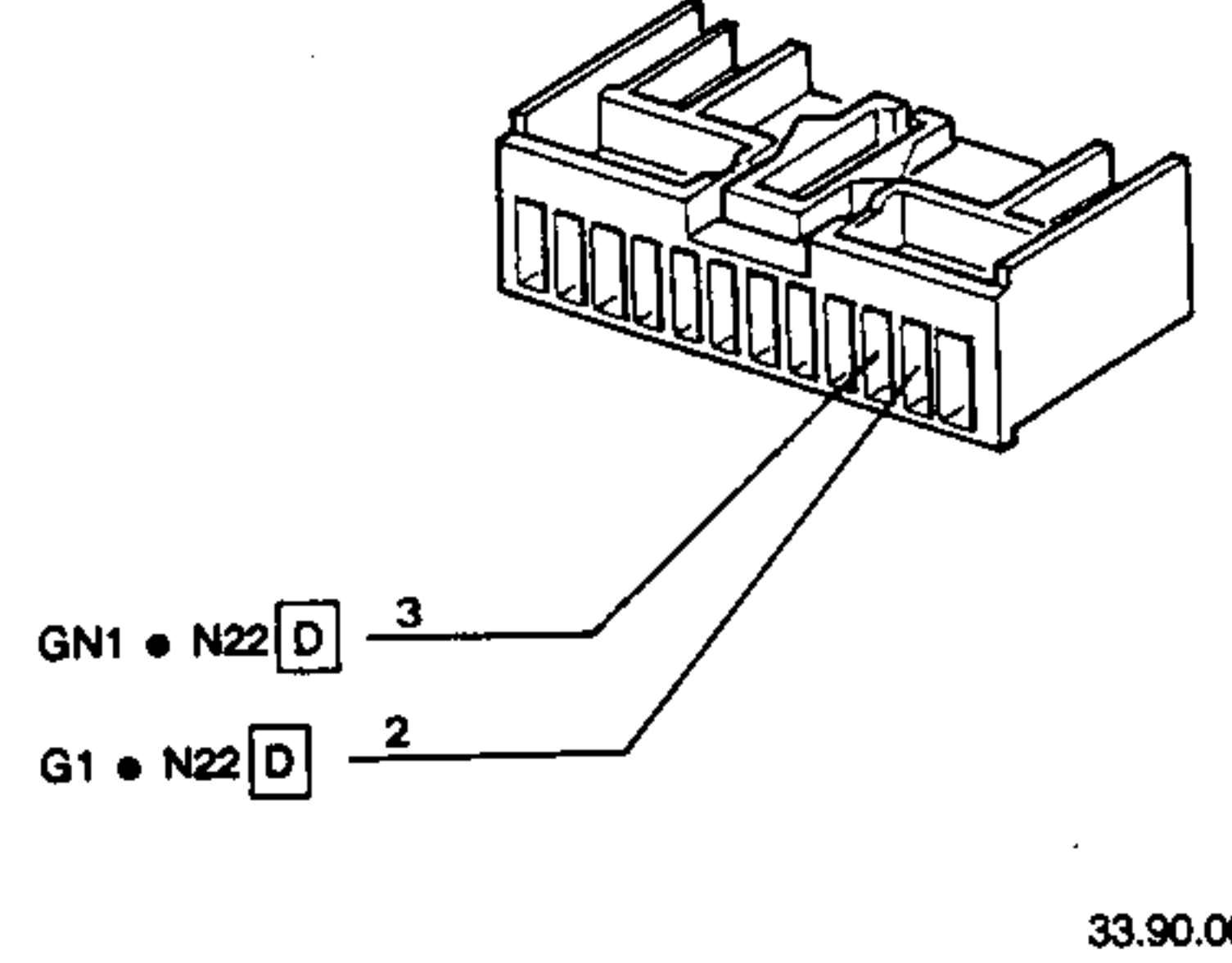
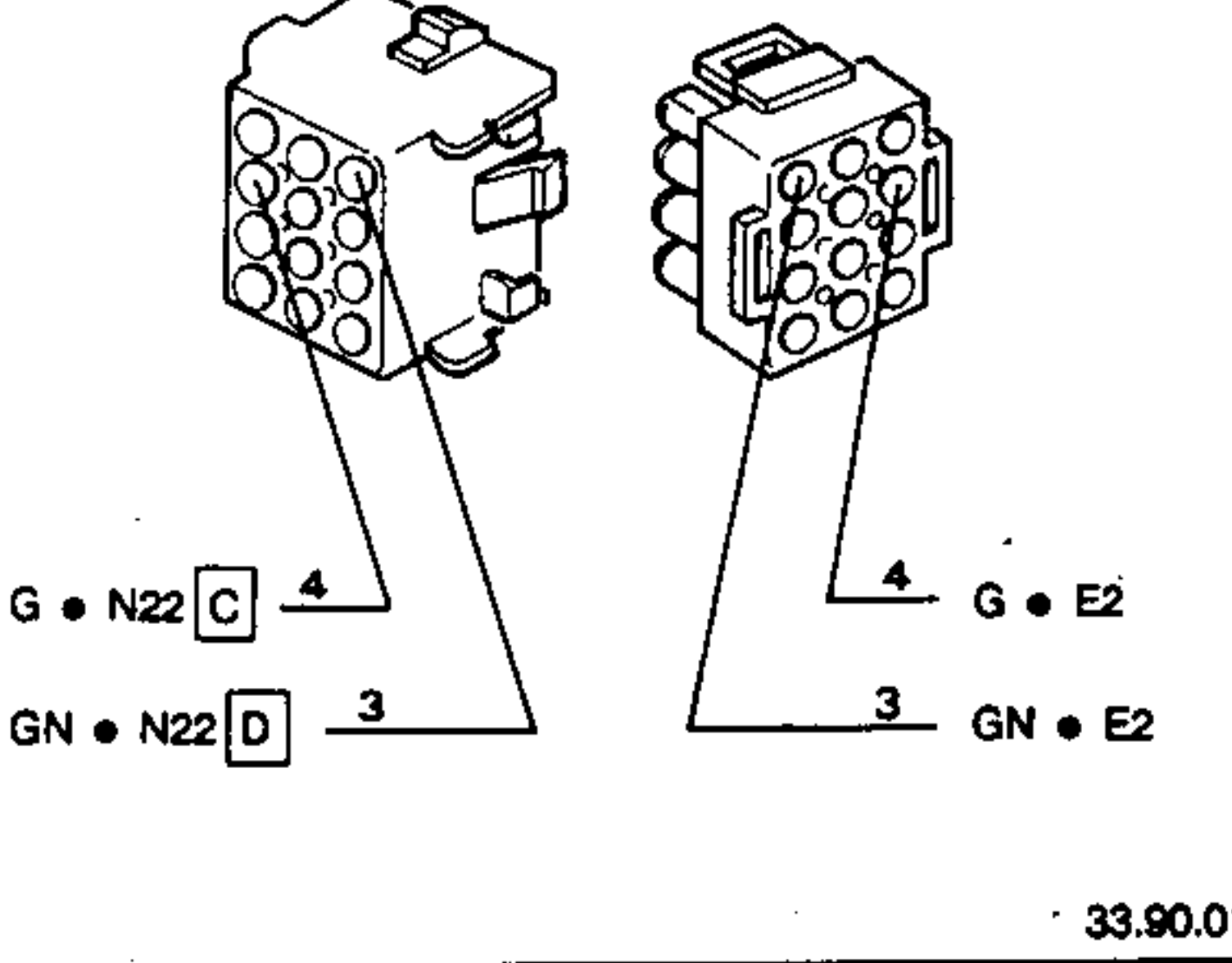
<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Hazard warning light control switch</p>	<p>B12</p>
 <p>R2,5 • G56 3</p> <p>VN1,5 • G99a 2</p> <p>M1,5 • G95 [H] 2</p> <p>Z1 • N22 [A] 4</p> <p>N1,5 • G99a 4</p> <p>33.90.028</p>		 <p>N • G95 [F] 9</p> <p>N • I12 9</p> <p>33.90.008</p>	
<p>Turn signal switch unit</p>	<p>B68 A</p>	<p>Turn signal switch unit</p>	<p>B68 D</p>
 <p>R2,5 • G56 2</p> <p>33.90.027</p>		 <p>G1,5 • G95 [H] 3</p> <p>33.90.027</p>	

# ELECTRICAL SYSTEM

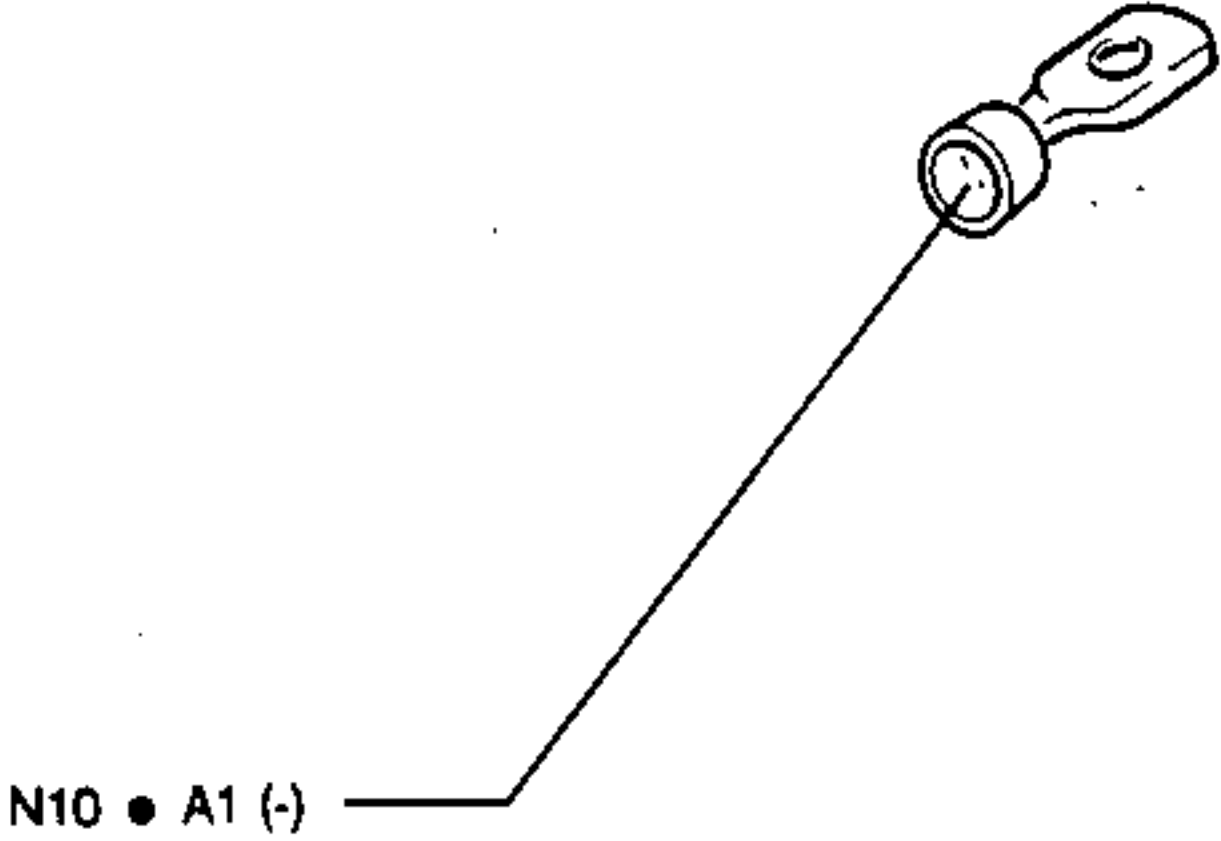
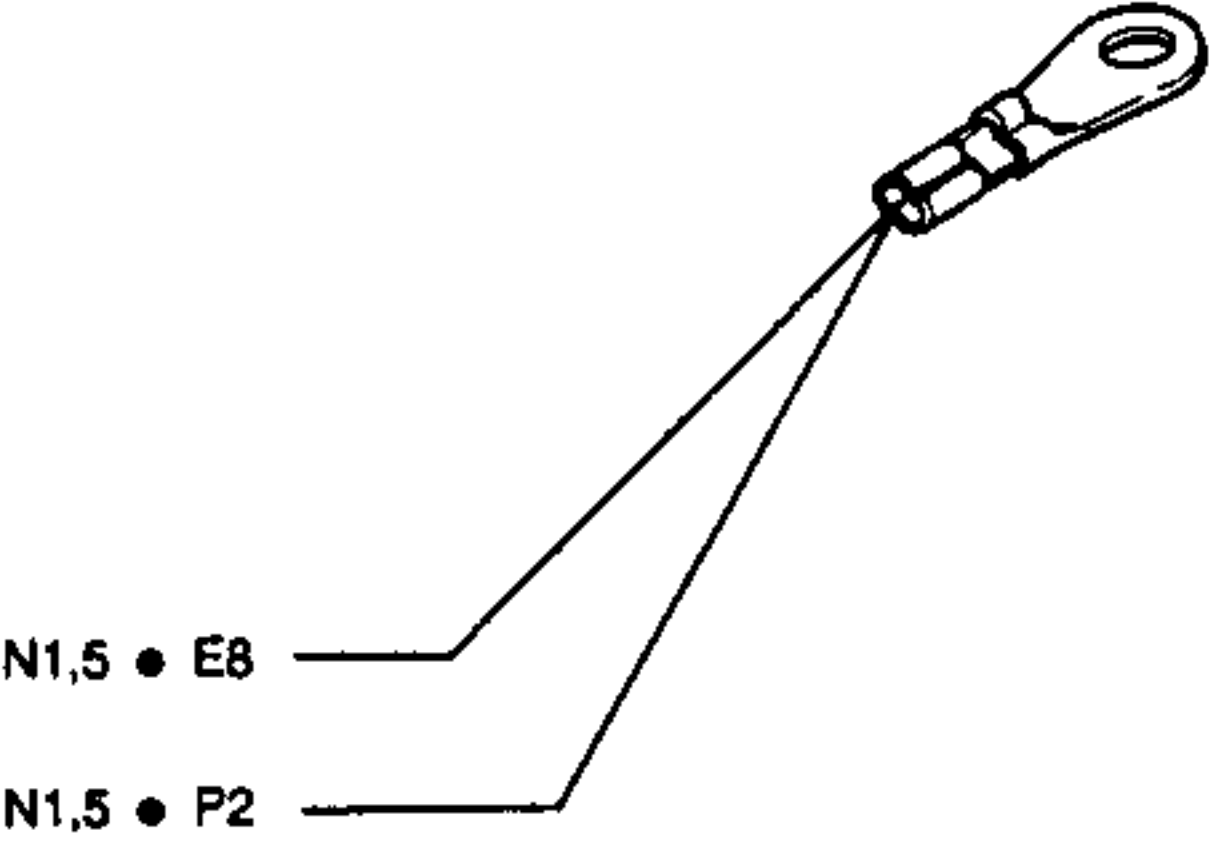
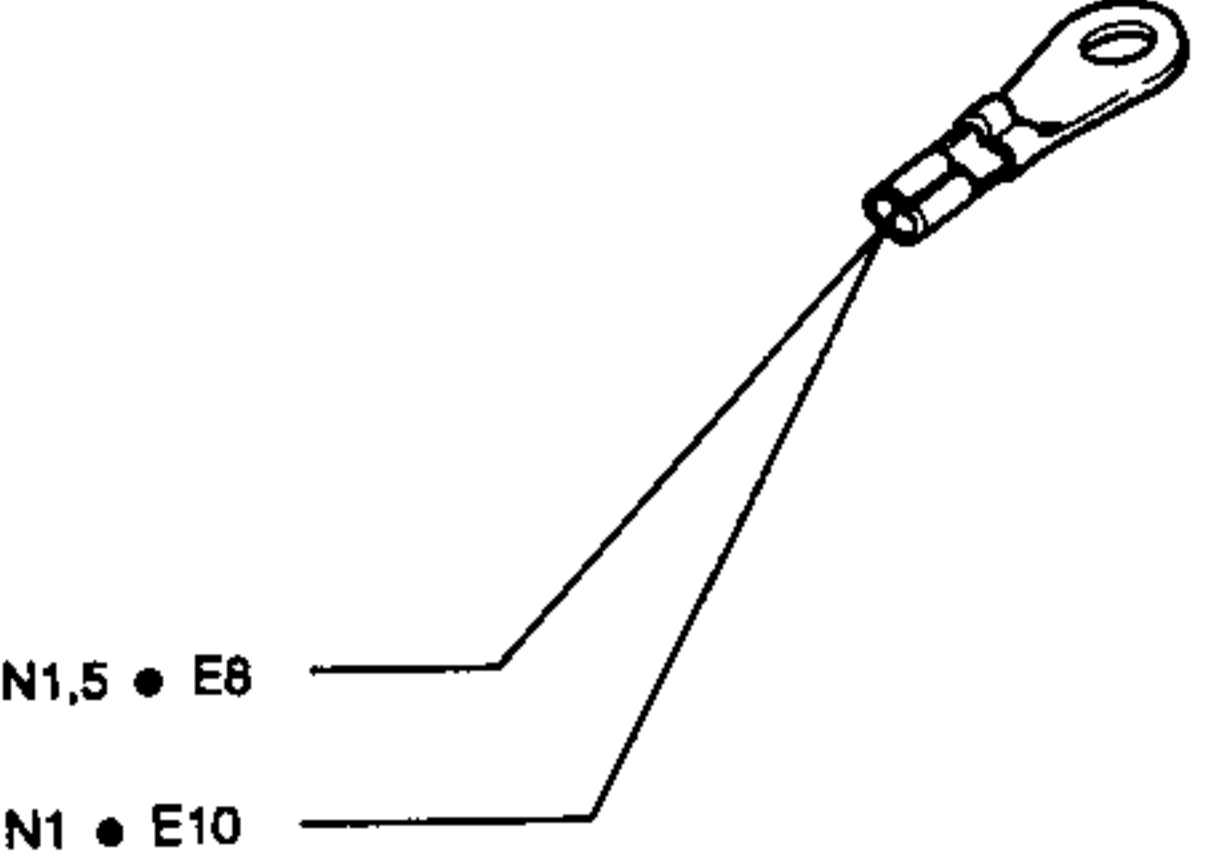
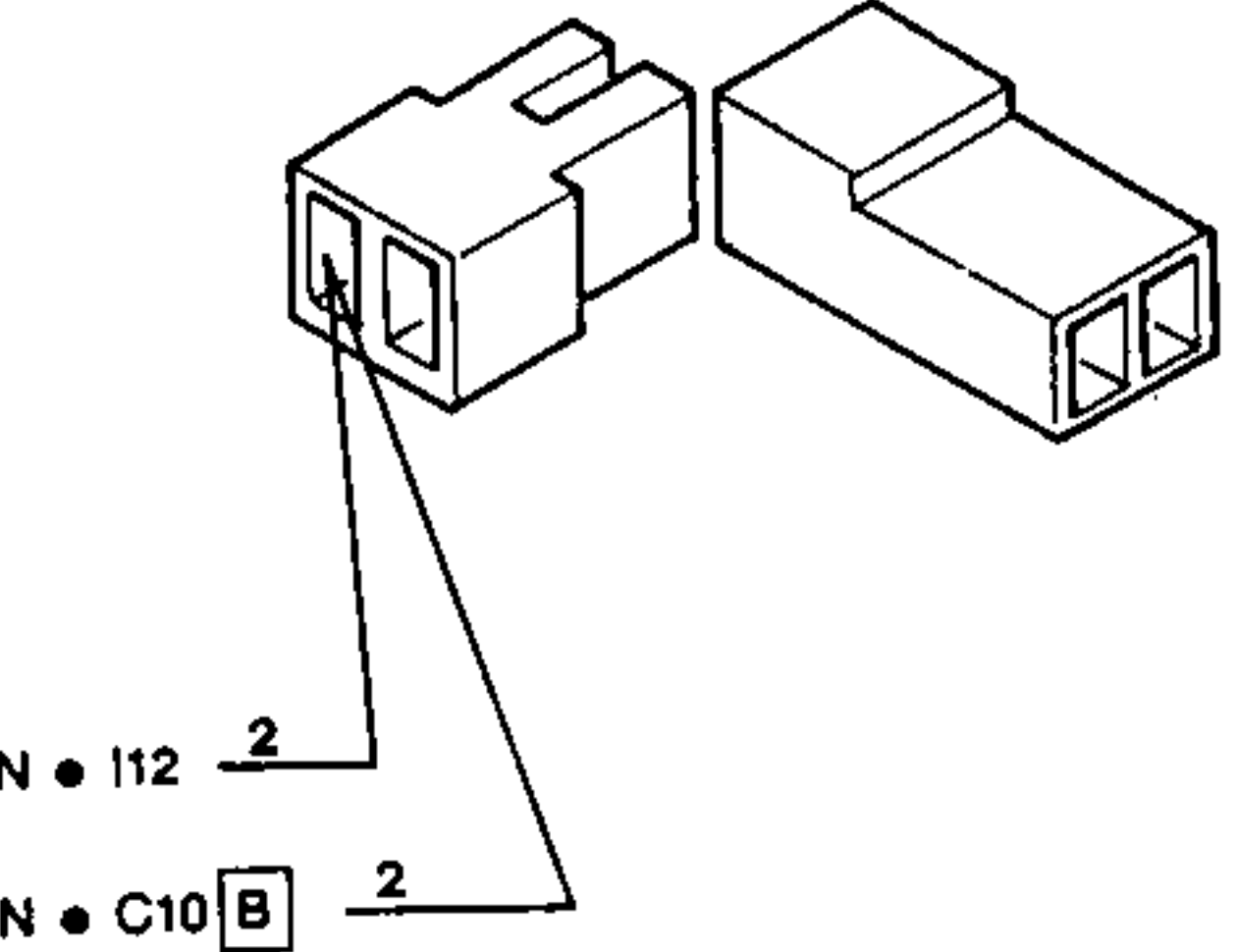
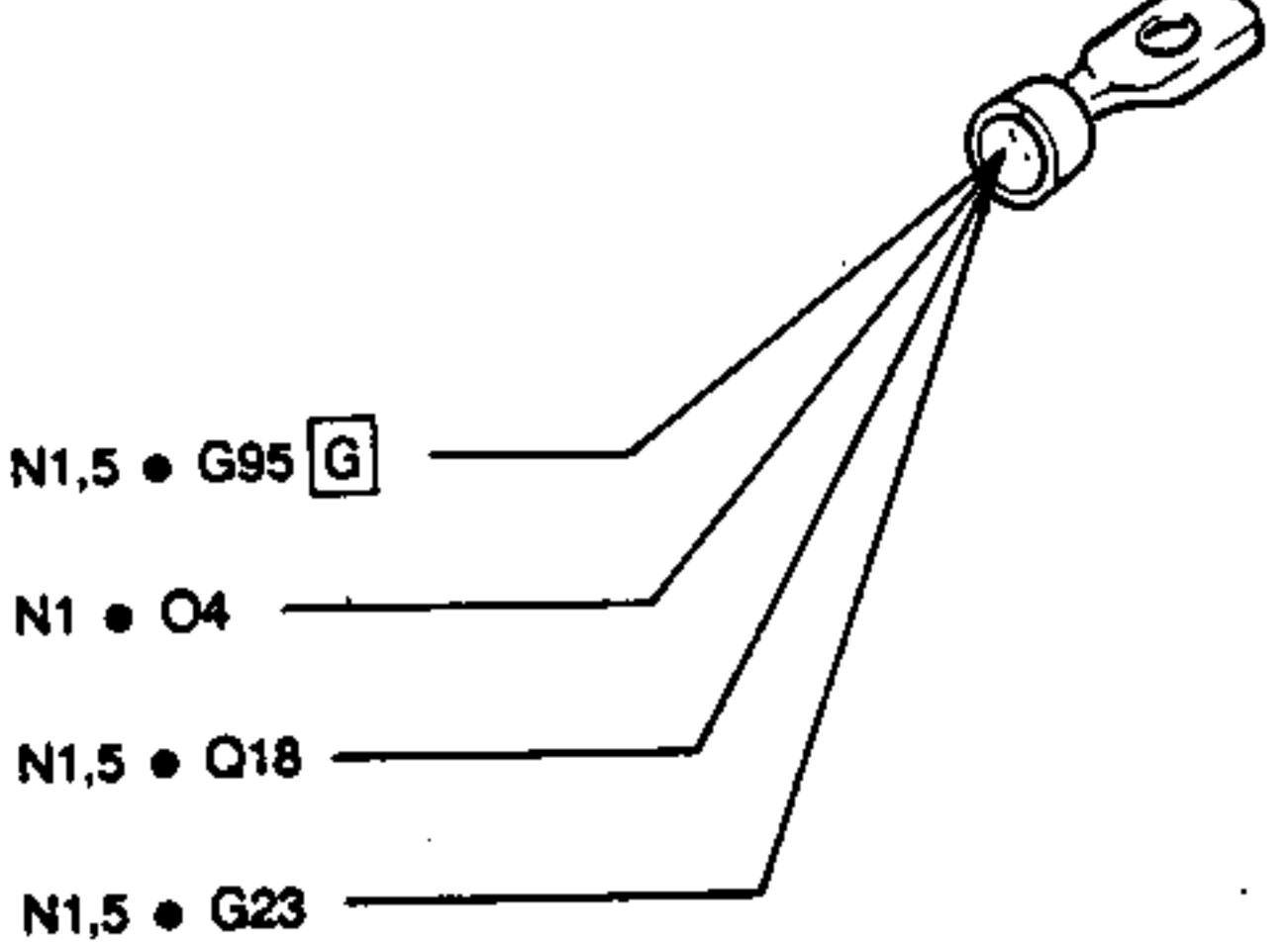
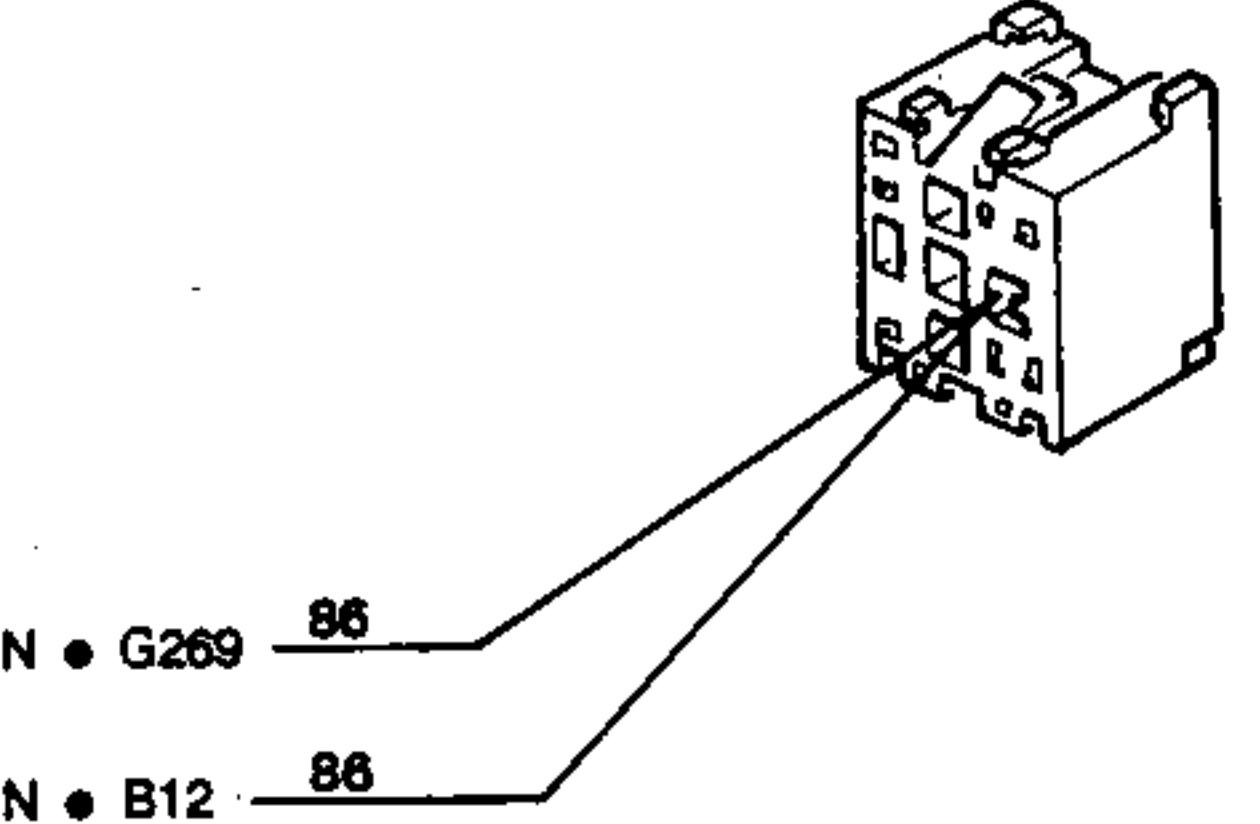
<b>Instrument panel</b> <b>C10 B</b>	<b>Front side light (right)</b> <b>E2</b>
 <p>G ● G95 <b>D</b> 8</p> <p>N ● G269 5</p> <p>B0,35 ● G270b (*) 5</p> <p style="text-align: right;">33.90.024</p>	 <p>N ● E1 2</p> <p>N ● E8 2</p> <p>G ● G99b 1</p> <p style="text-align: right;">33.90.060</p>
<b>Front side light (left)</b> <b>E2</b>	<b>Dipped and main beam light (right)</b> <b>E8</b>
 <p>N ● E1 2</p> <p>N ● E8 2</p> <p>GN ● G99b 1</p> <p style="text-align: right;">33.90.060</p>	 <p>N ● E2</p> <p>N1,5 ● G267</p> <p style="text-align: right;">33.90.026</p>
<b>Dipped and main beam light (left)</b> <b>E8</b>	<b>Branch terminal board</b> <b>G56</b>
 <p>N ● E2</p> <p>N1,5 ● G267</p> <p style="text-align: right;">33.90.026</p>	 <p>R2,5 ● B1</p> <p>R2,5 ● B68 <b>A</b></p> <p>R10 ● A1 (+)</p> <p style="text-align: right;">33.90.066</p>

(\*) Specific to 4 x 4 version

# ELECTRICAL SYSTEM

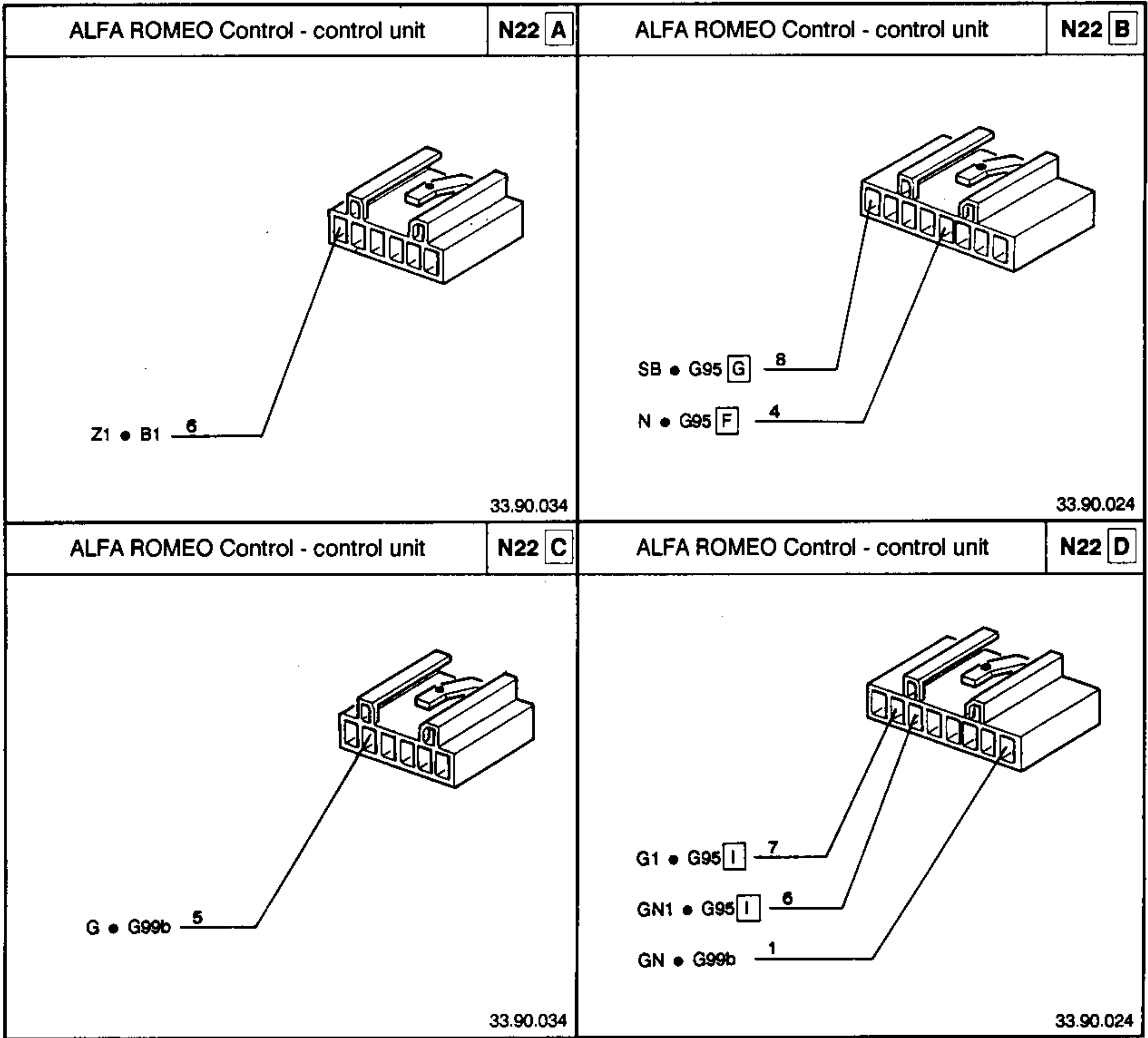
<b>Central fusebox</b>	<b>G95 D</b>	<b>Central fusebox</b>	<b>G95 F</b>
 <p style="margin-top: 10px;">             G • G95 <span style="border: 1px solid black; padding: 2px;">D</span> 10              G • C10 <span style="border: 1px solid black; padding: 2px;">B</span> 10              G • G95 <span style="border: 1px solid black; padding: 2px;">D</span> 5              G • B10 5         </p>		 <p style="margin-top: 10px;">             N • N22 <span style="border: 1px solid black; padding: 2px;">B</span> 10              N • B12 10         </p>	
33.90.004		33.90.005	
<b>Central fusebox</b>	<b>G95 G</b>	<b>Central fusebox</b>	<b>G95 H</b>
 <p style="margin-top: 10px;">             SB • N22 <span style="border: 1px solid black; padding: 2px;">B</span> 2              SB1 • B9 2              N1,5 • G283 1         </p>		 <p style="margin-top: 10px;">             G1,5 • B68 <span style="border: 1px solid black; padding: 2px;">D</span> 3              M1,5 • B7 2         </p>	
33.90.005		33.90.004	
<b>Central fusebox</b>	<b>G95 I</b>	<b>Connector for engine dashboard B</b>	<b>G99b</b>
 <p style="margin-top: 10px;">             GN1 • N22 <span style="border: 1px solid black; padding: 2px;">D</span> 3              G1 • N22 <span style="border: 1px solid black; padding: 2px;">D</span> 2         </p>		 <p style="margin-top: 10px;">             G • N22 <span style="border: 1px solid black; padding: 2px;">C</span> 4              GN • N22 <span style="border: 1px solid black; padding: 2px;">D</span> 3              G • E2 4              GN • E2 3         </p>	
33.90.004		33.90.016	

# ELECTRICAL SYSTEM

<p>Central service compartment</p> <p style="text-align: right;"><b>G143</b></p>	<p>Earth on cylinder block (from right services)</p> <p style="text-align: right;"><b>G267</b></p>
 <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>	 <p>N1,5 • E8</p> <p>N1,5 • P2</p> <p style="text-align: right;">33.90.014</p>
<p>Earth on cylinder block (from left services)</p> <p style="text-align: right;"><b>G267</b></p>	<p>Glove compartment lamp connection</p> <p style="text-align: right;"><b>G269</b></p>
 <p>N1,5 • E8</p> <p>N1 • E10</p> <p style="text-align: right;">33.90.014</p>	 <p>N • I12 2</p> <p>N • C10 B 2</p> <p style="text-align: right;">33.90.013</p>
<p>Earth on left service compartment</p> <p style="text-align: right;"><b>G283</b></p>	<p>Front power window relay</p> <p style="text-align: right;"><b>I12</b></p>
 <p>N1,5 • G95 G</p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p style="text-align: right;">33.90.001</p>	 <p>N • G269 86</p> <p>N • B12 86</p> <p style="text-align: right;">33.90.007</p>



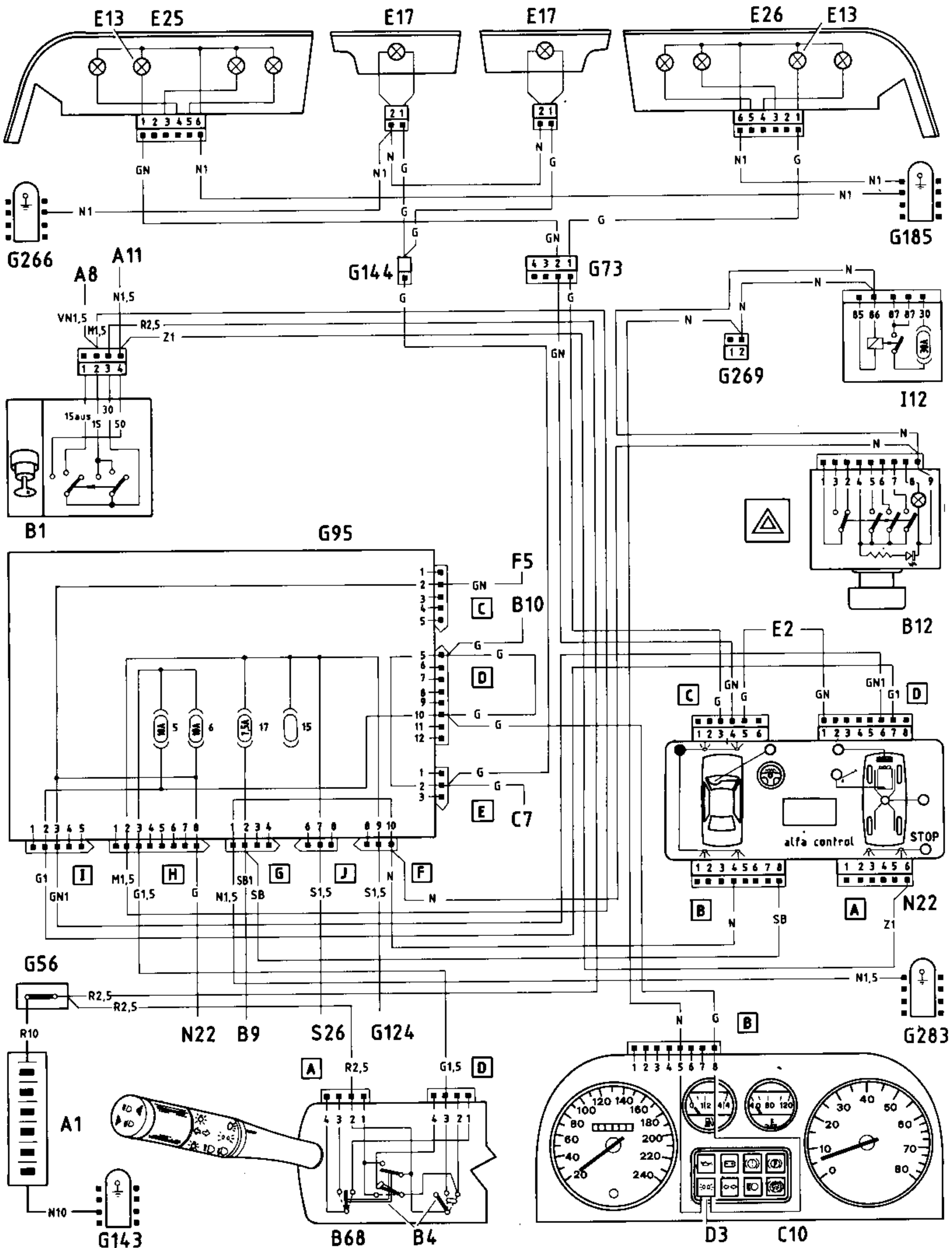
ELECTRICAL SYSTEM



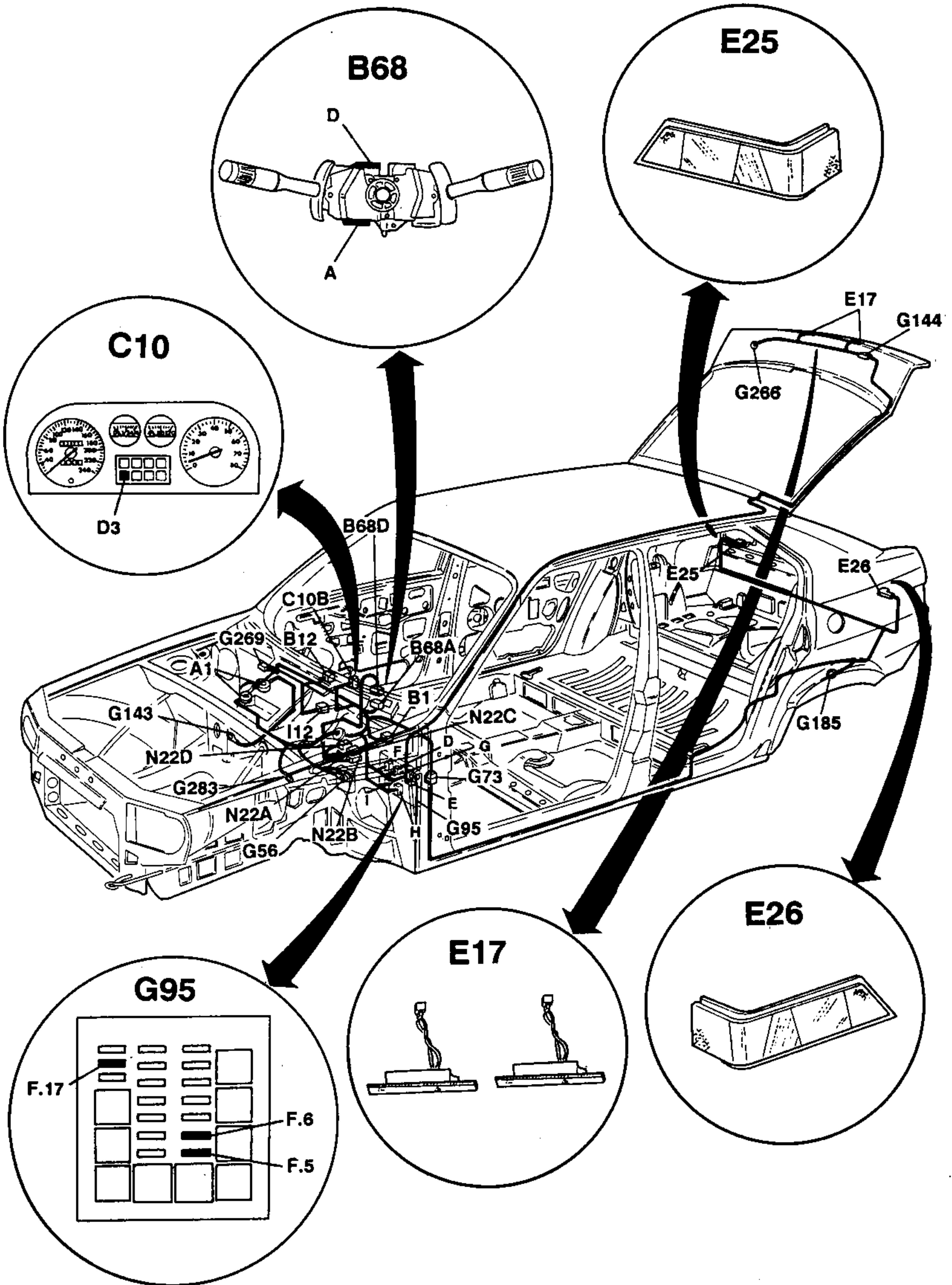
# ELECTRICAL SYSTEM

## SIDELIGHTS (Rear) - NUMBERPLATE LIGHT

### Wiring diagram

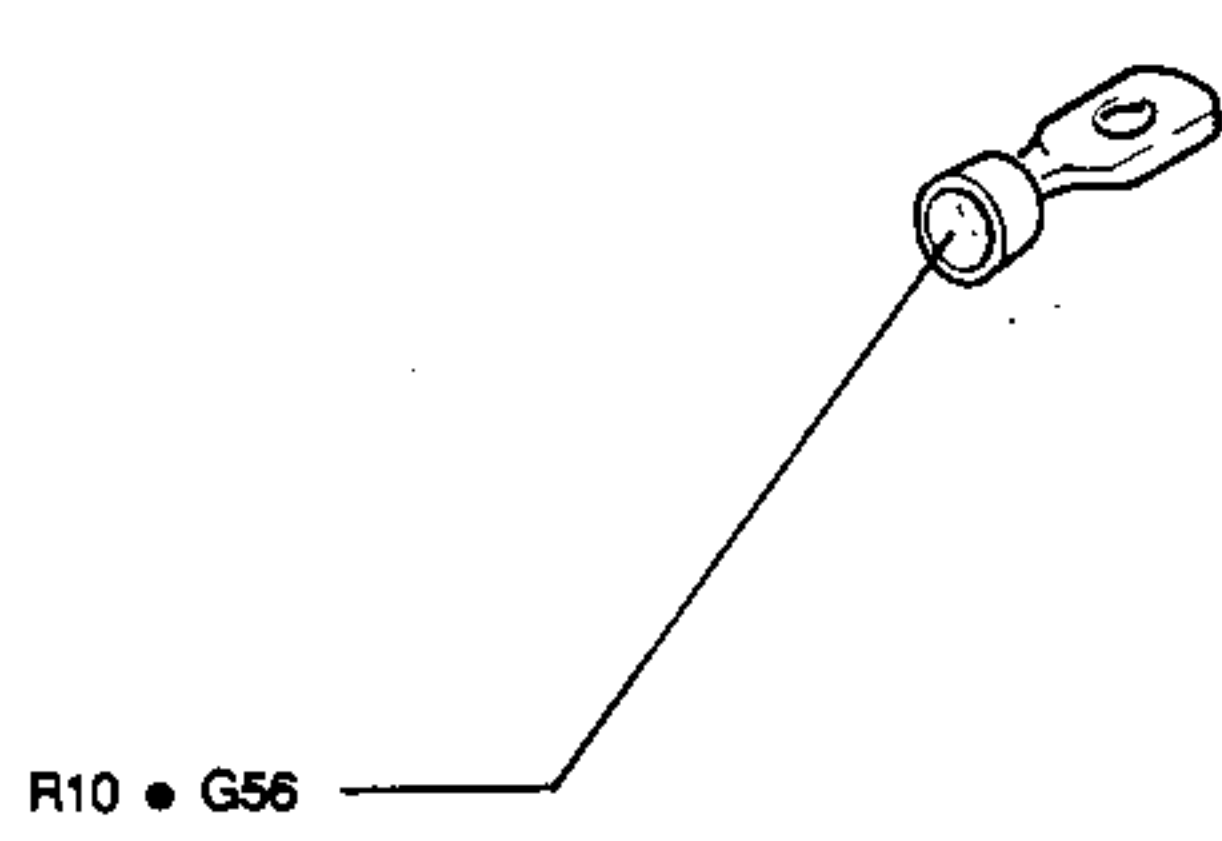
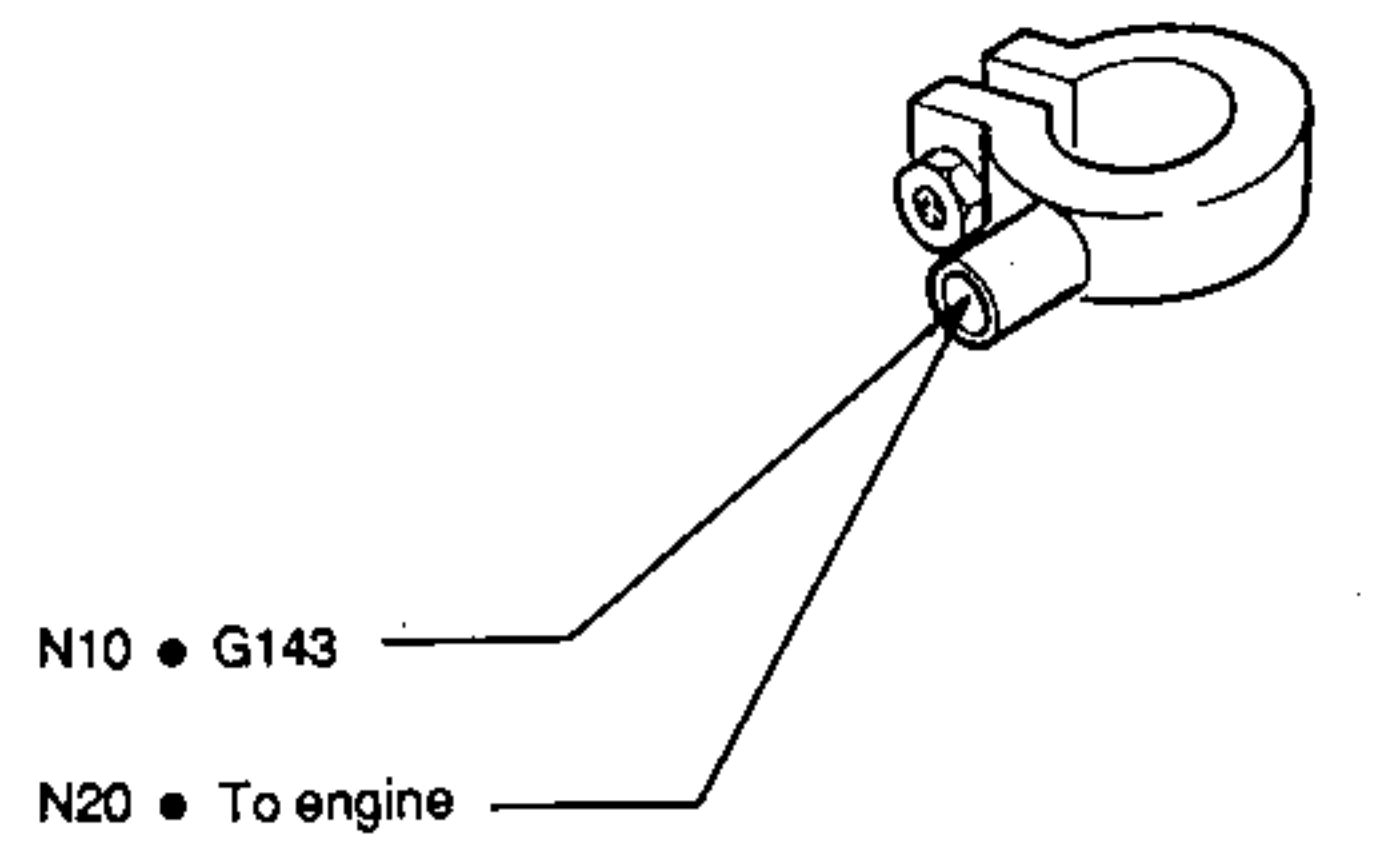
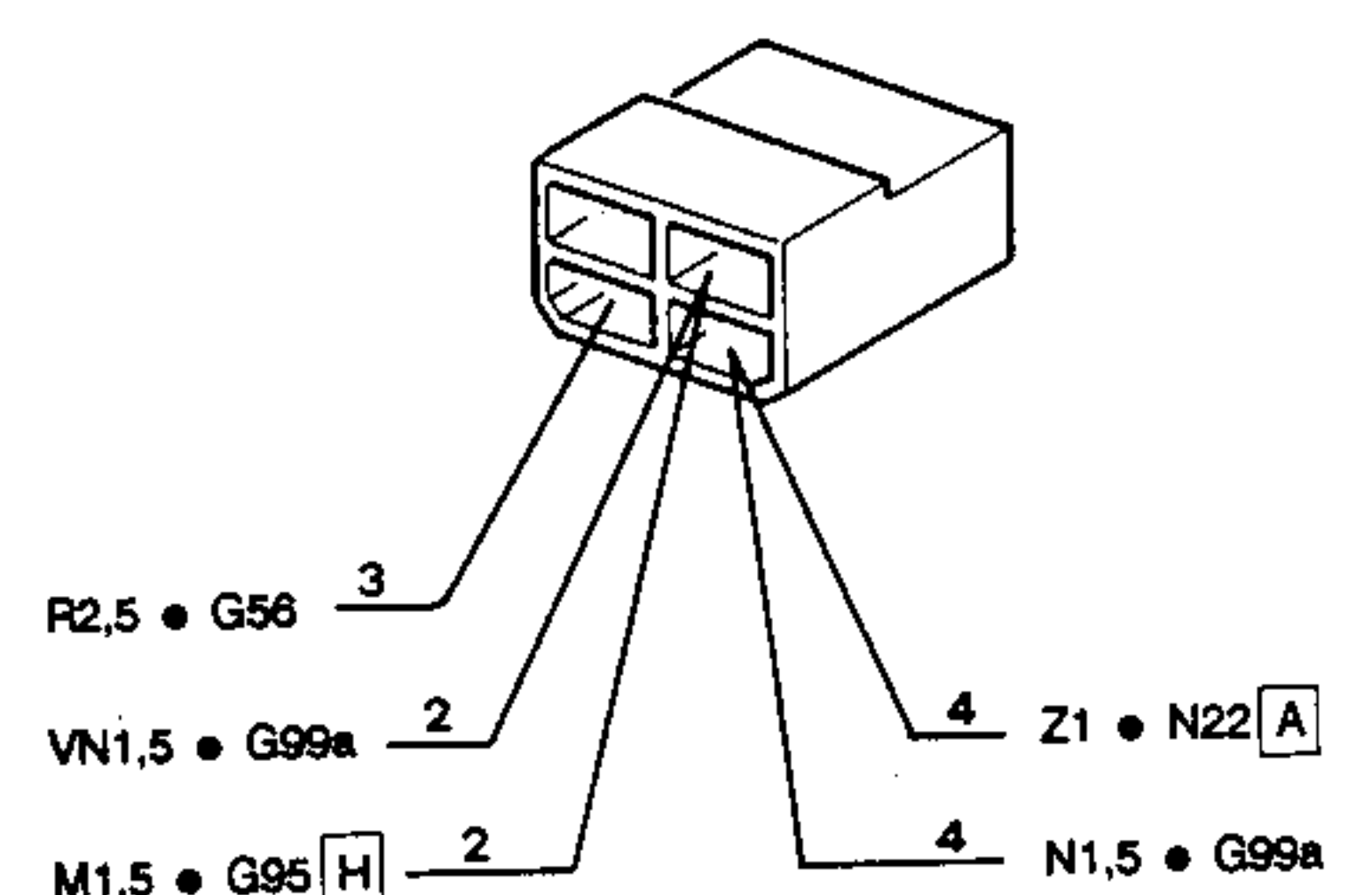
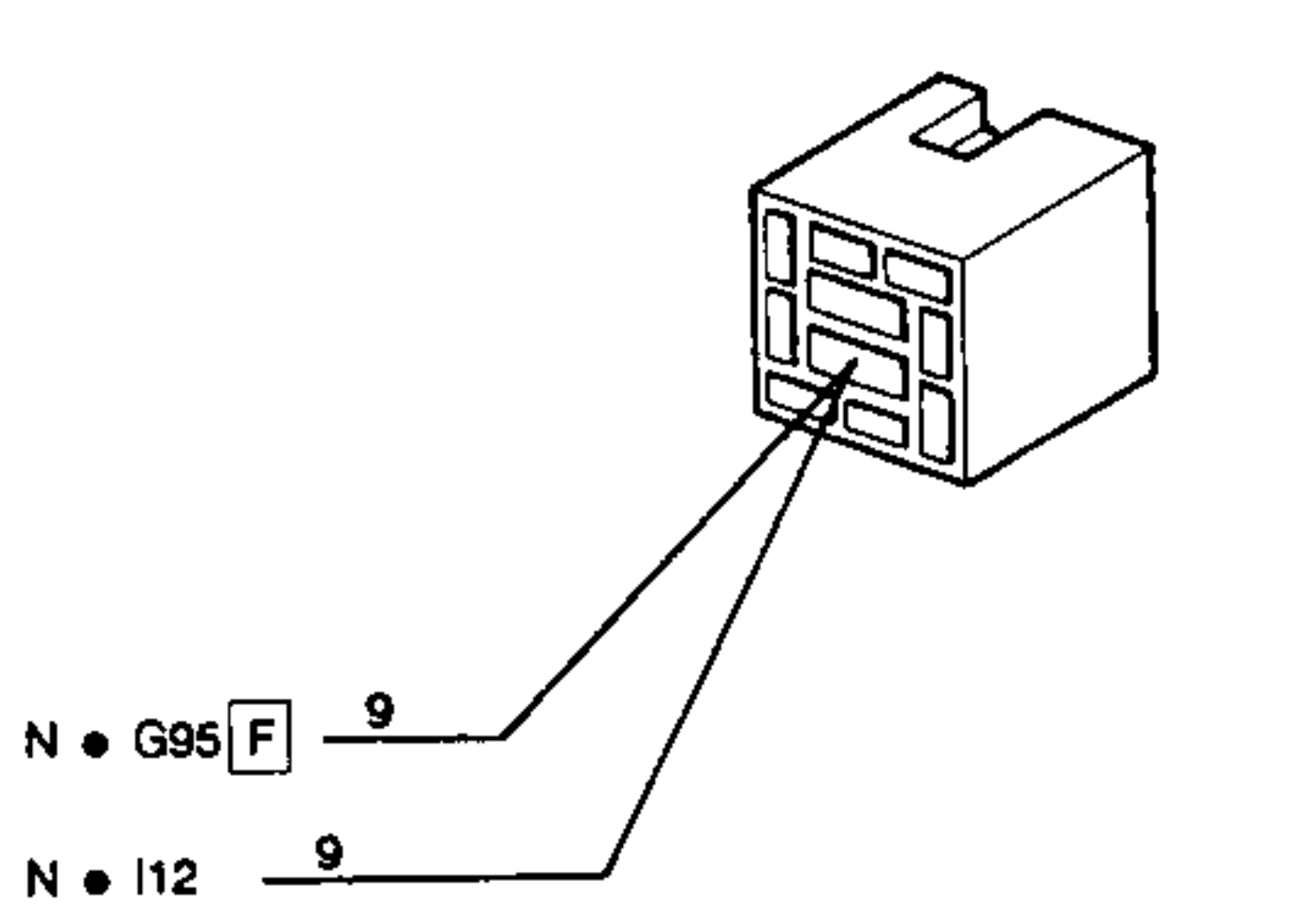
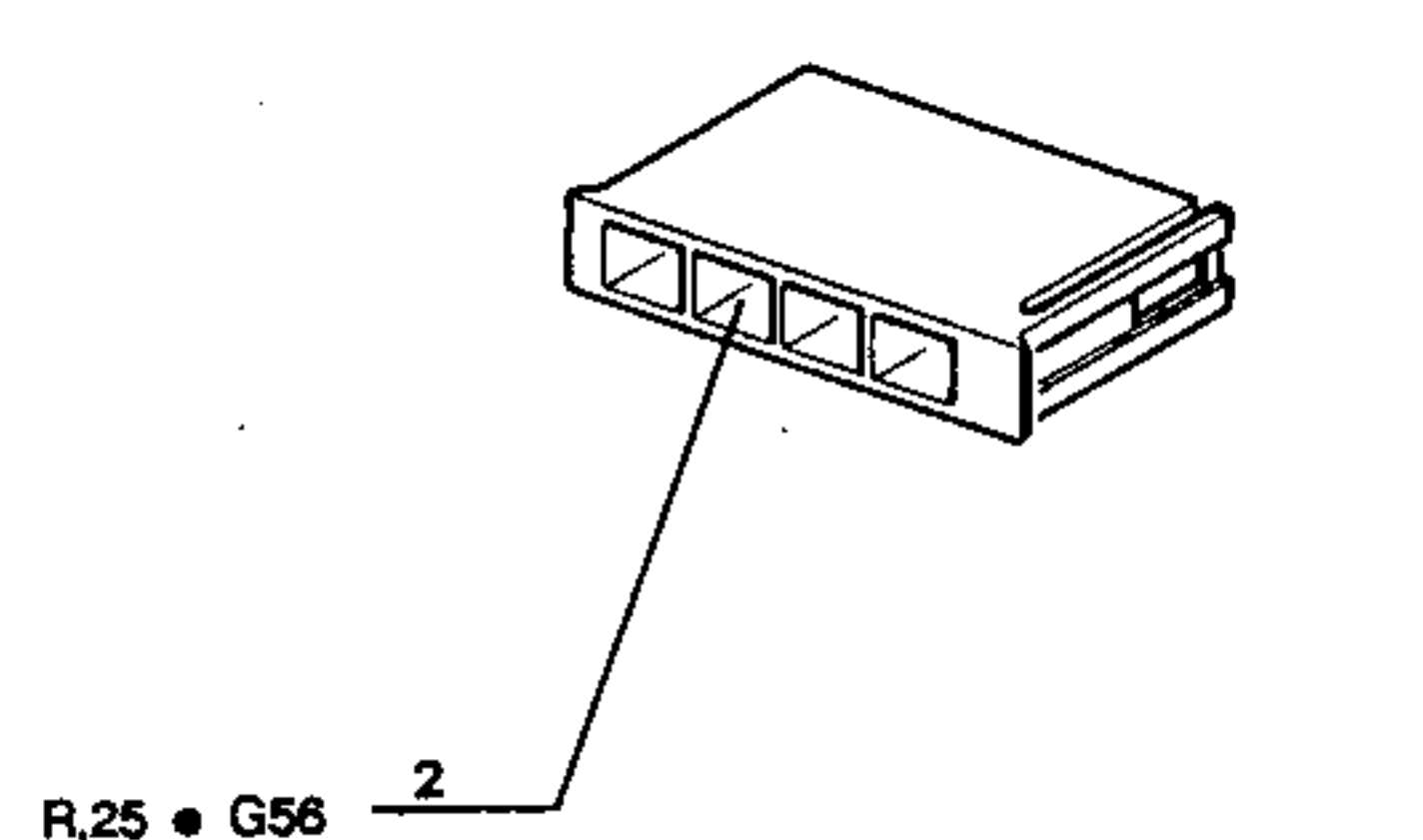
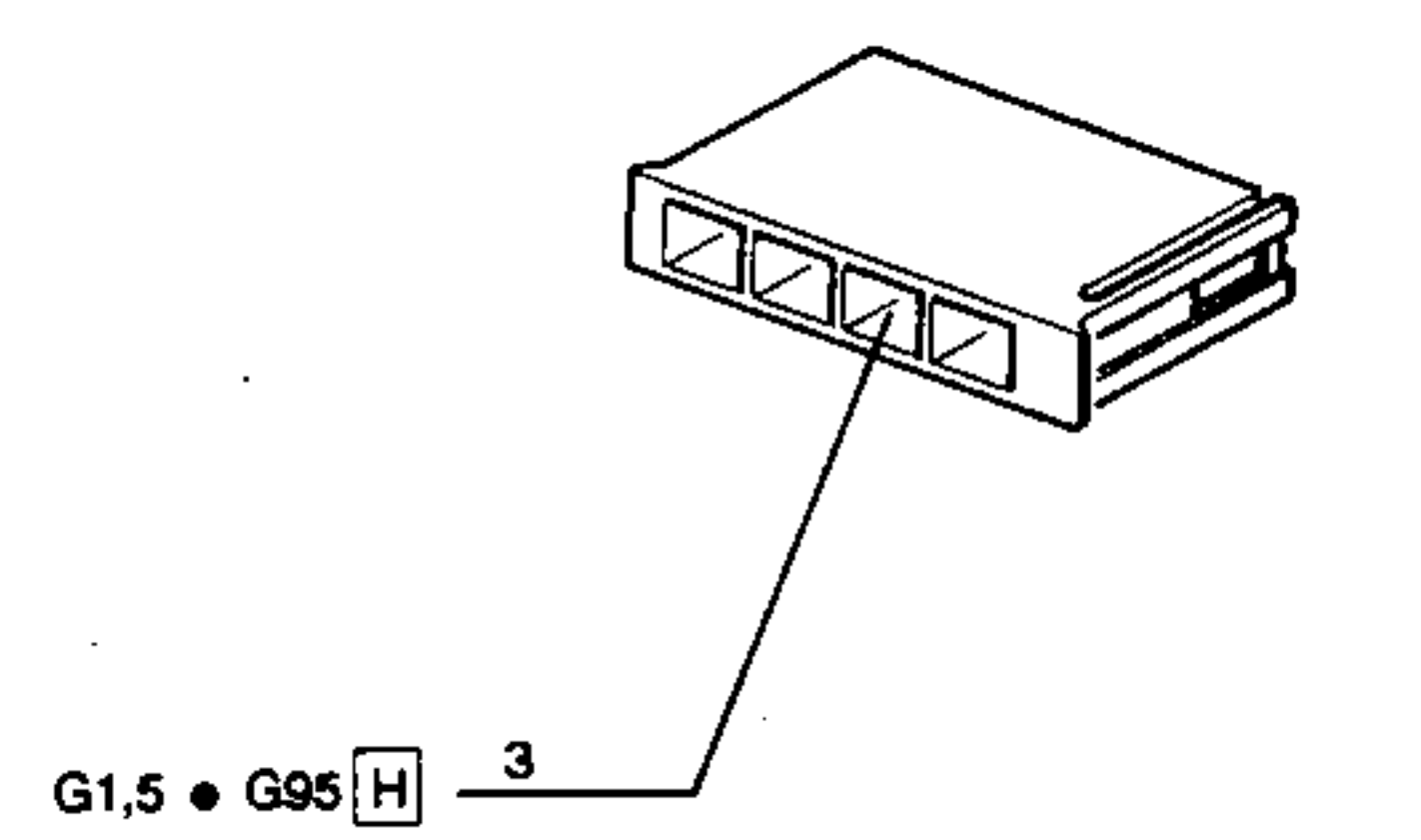


Wiring

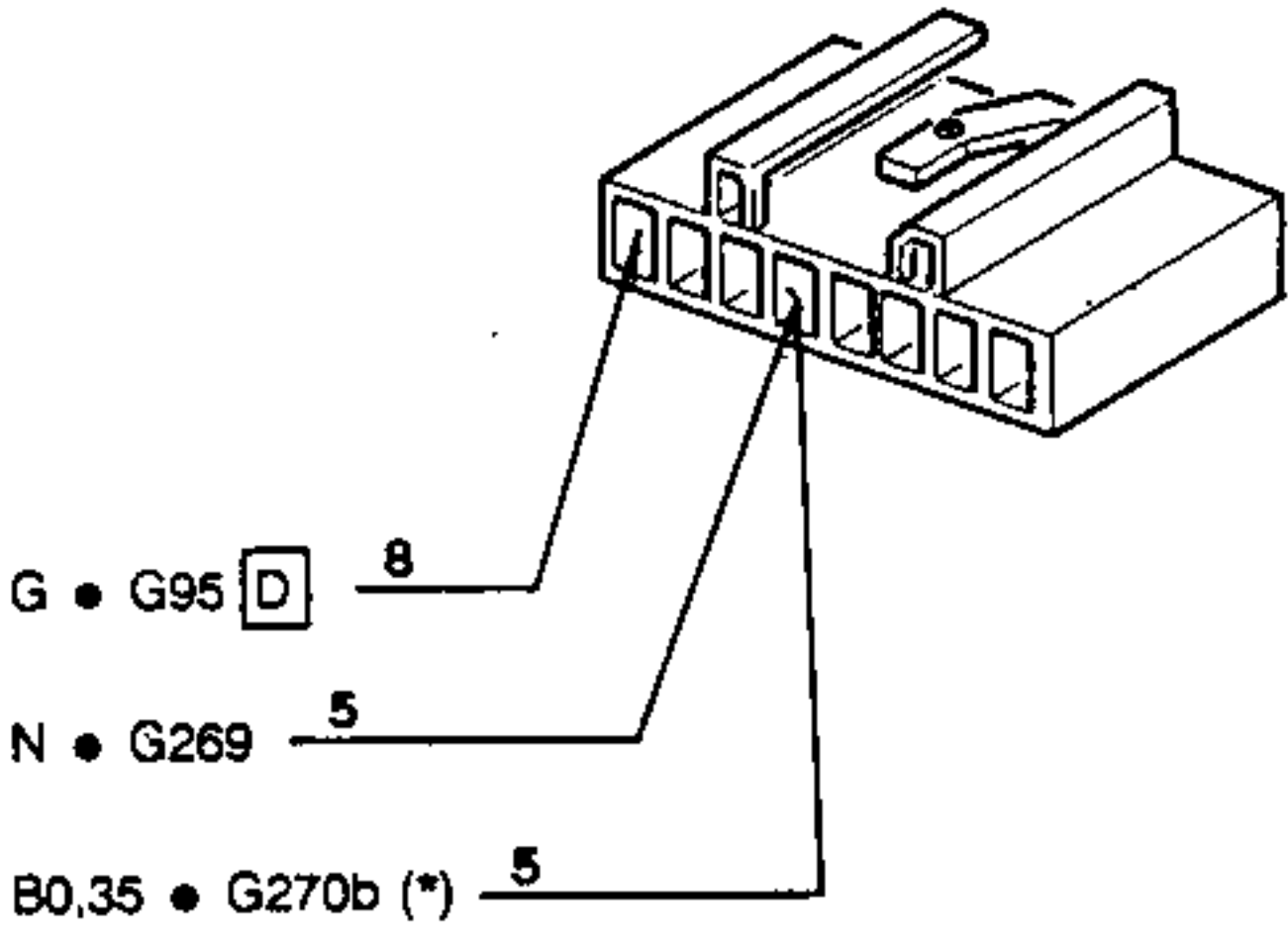
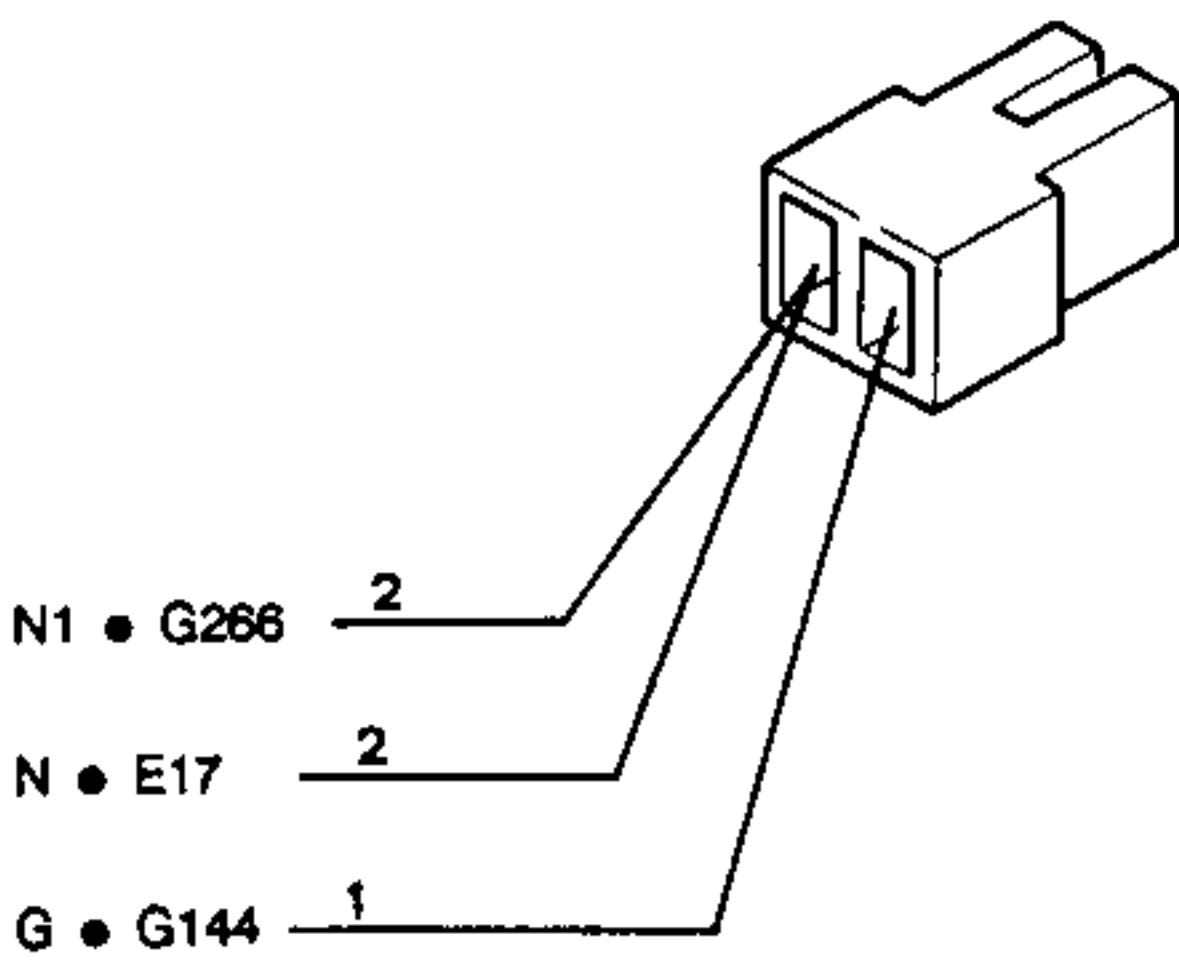
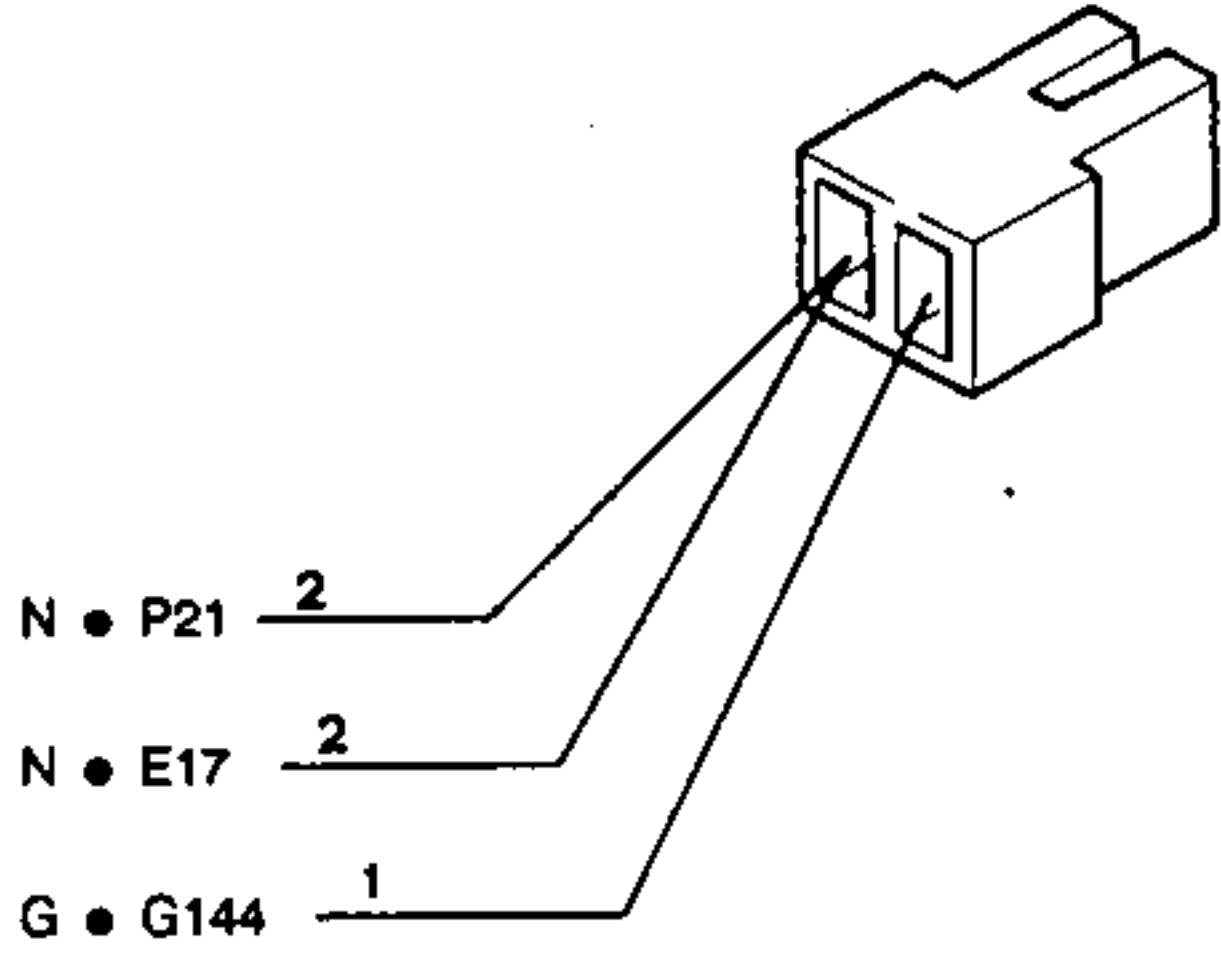
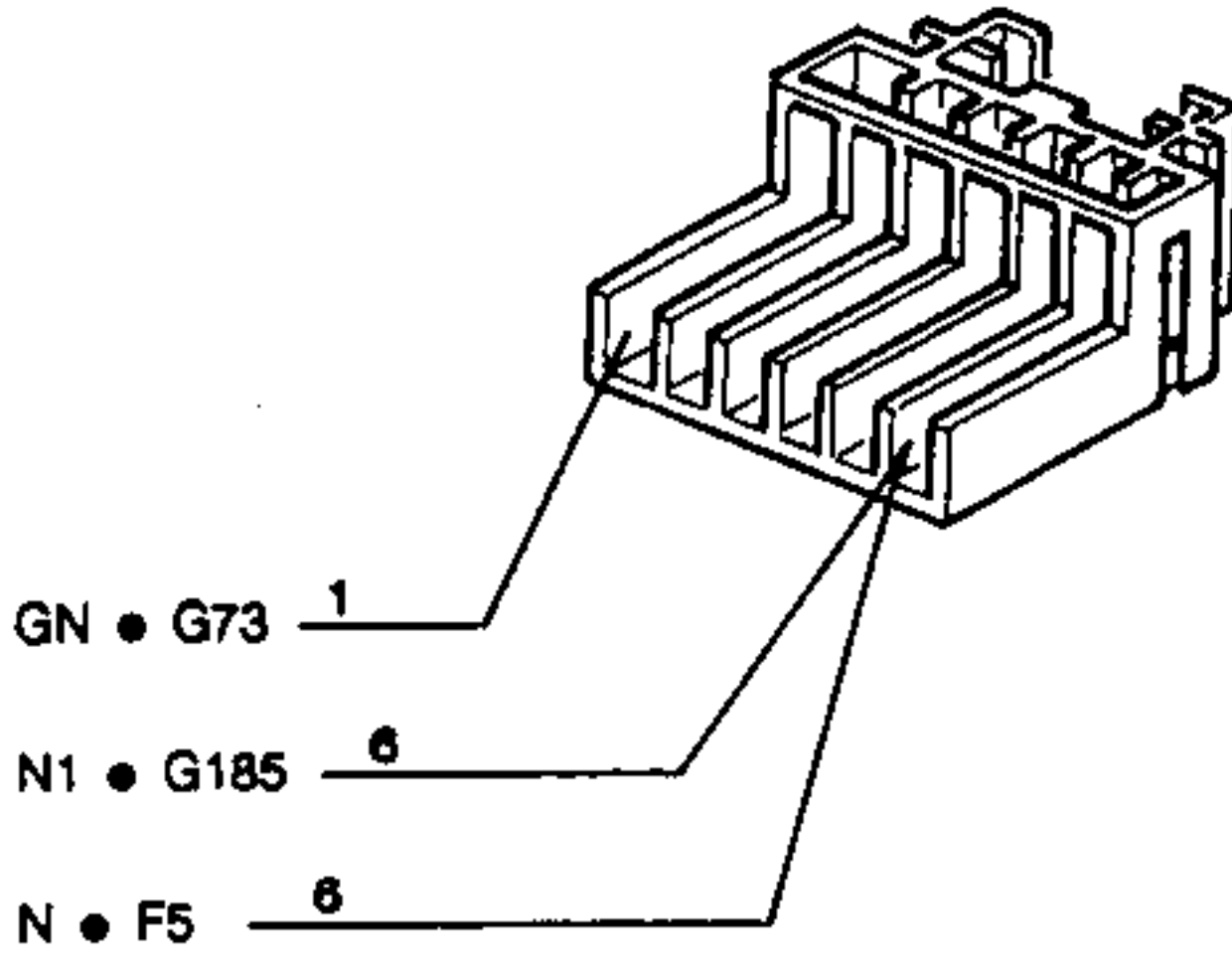
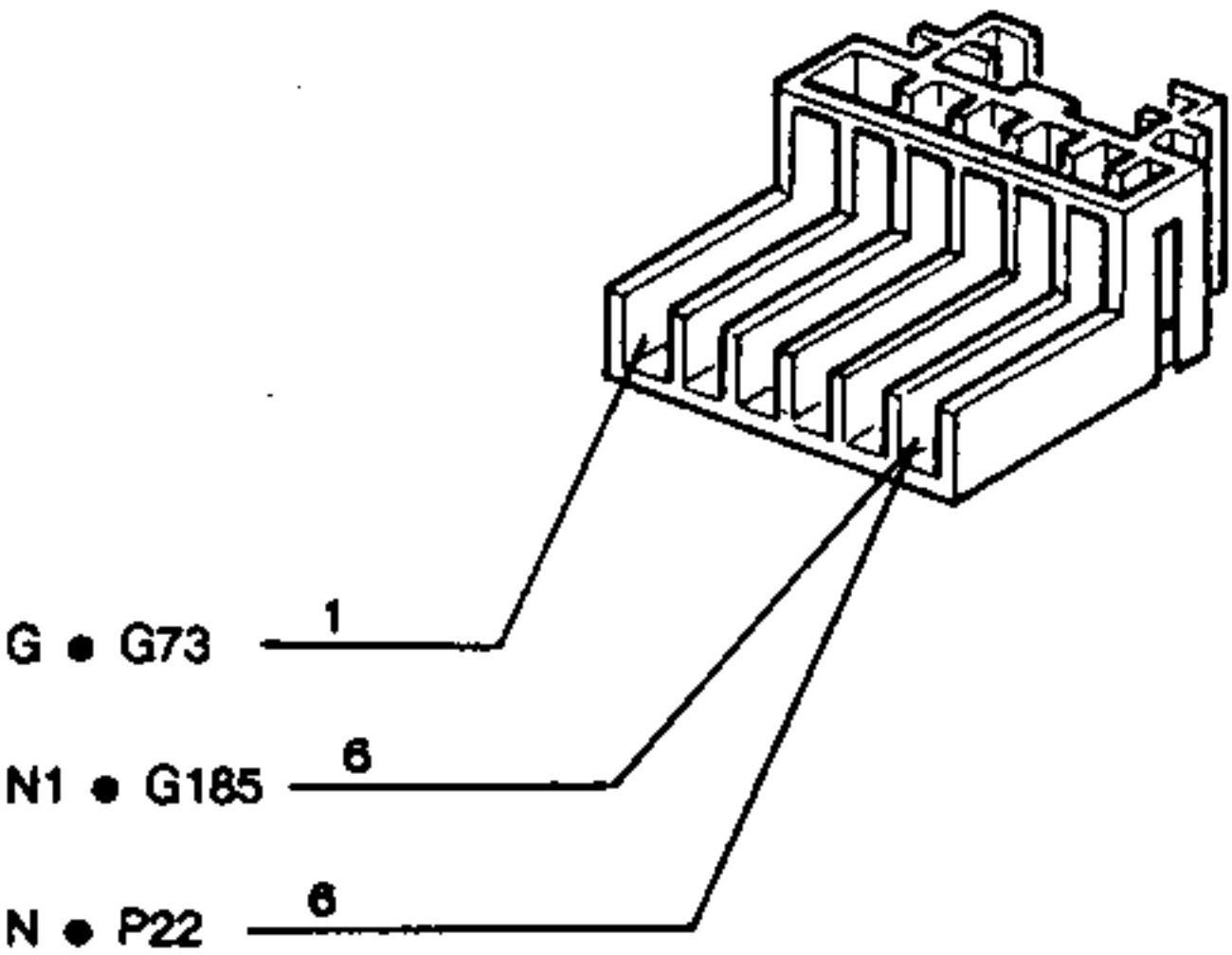
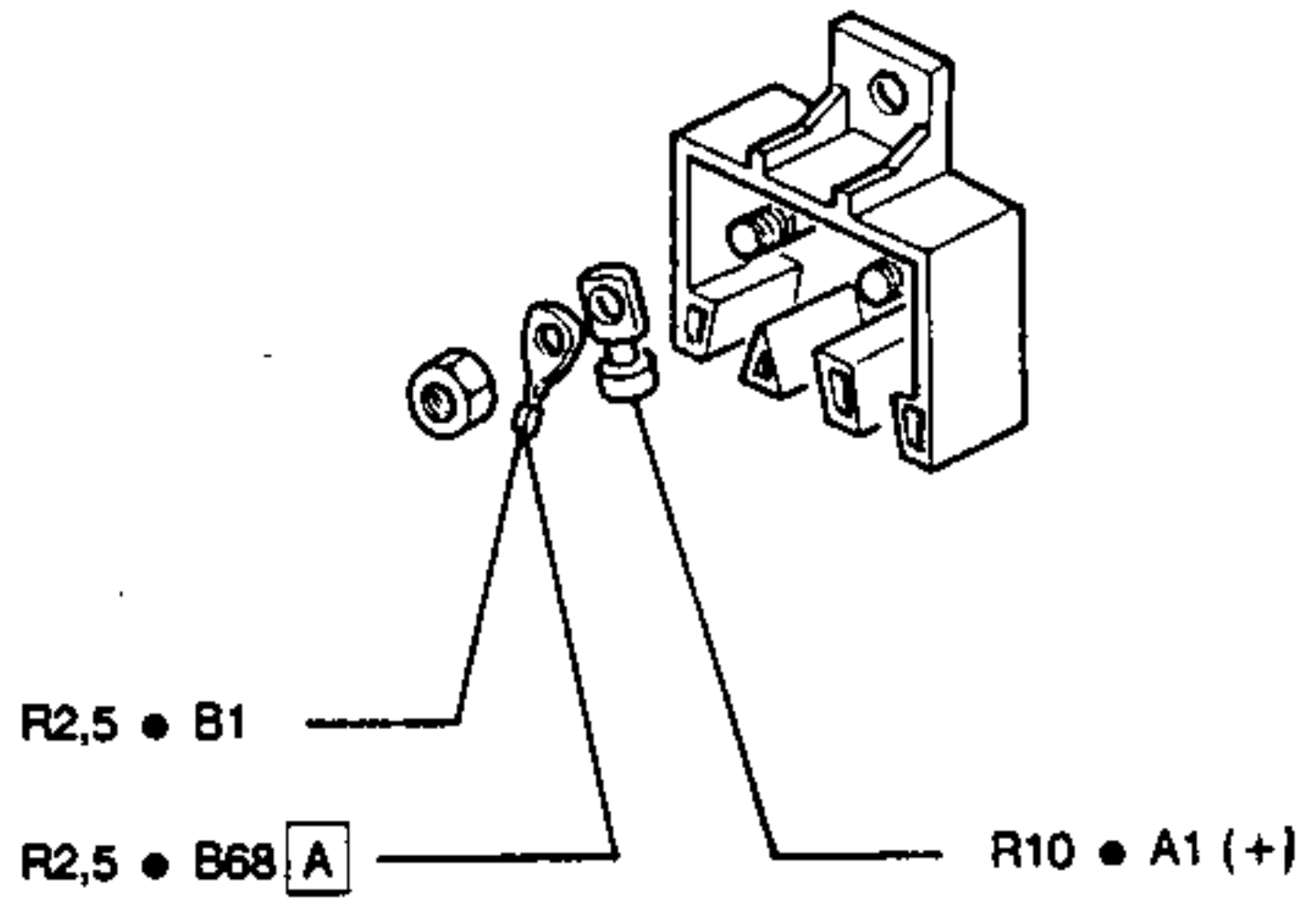


# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Hazard warning light control switch	B12
 <p>R2,5 • G56 3 VN1,5 • G99a 2 M1,5 • G95 (H) 2 Z1 • N22 (A) 4 N1,5 • G99a 4</p>	33.90.028	 <p>N • G95 (F) 9 N • I12 9</p>	33.90.008
Turn signal switch unit	B68 (A)	Turn signal switch unit	B68 (D)
 <p>R,25 • G56 2</p>	33.90.027	 <p>G1,5 • G95 (H) 3</p>	33.90.027

# ELECTRICAL SYSTEM

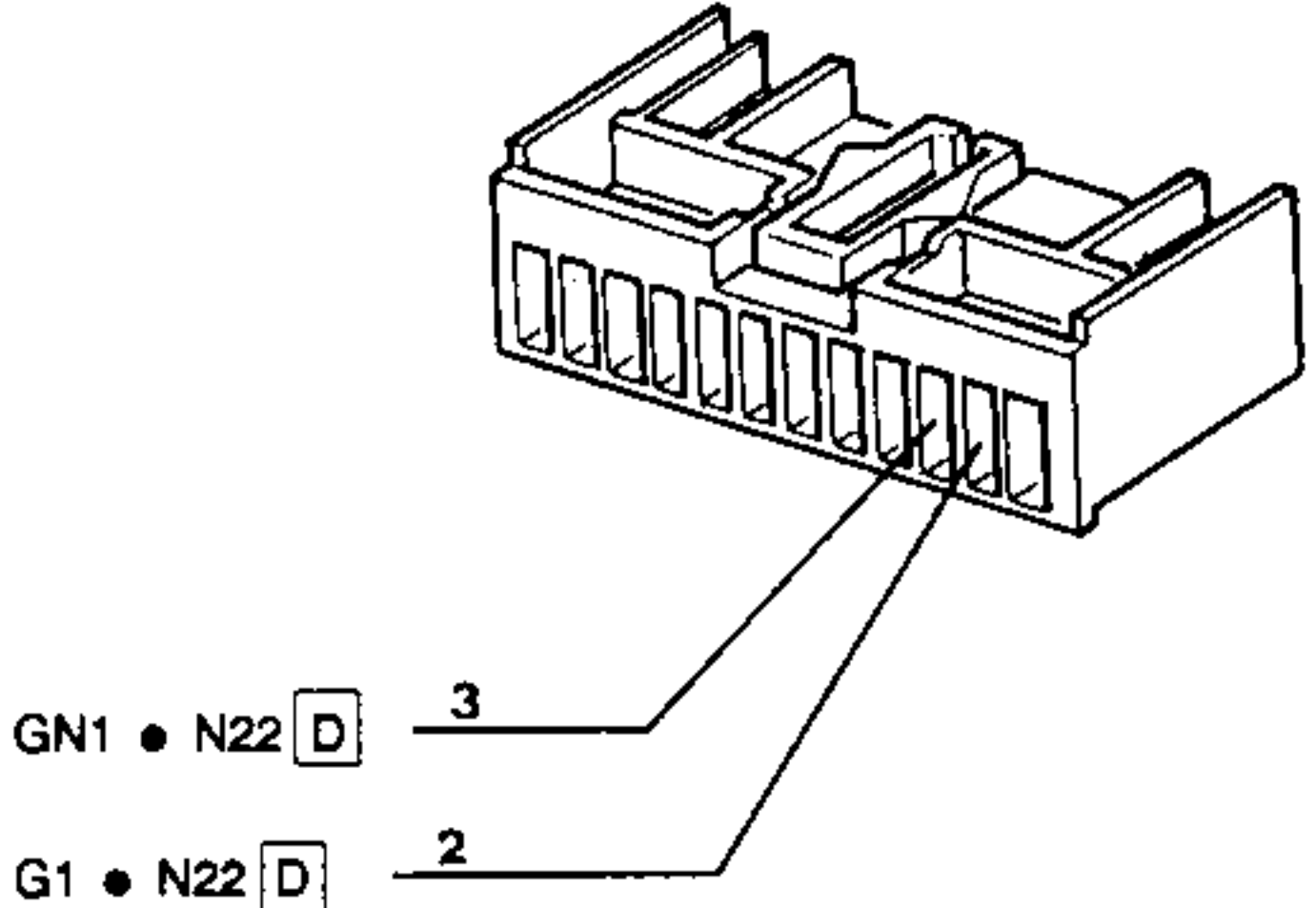
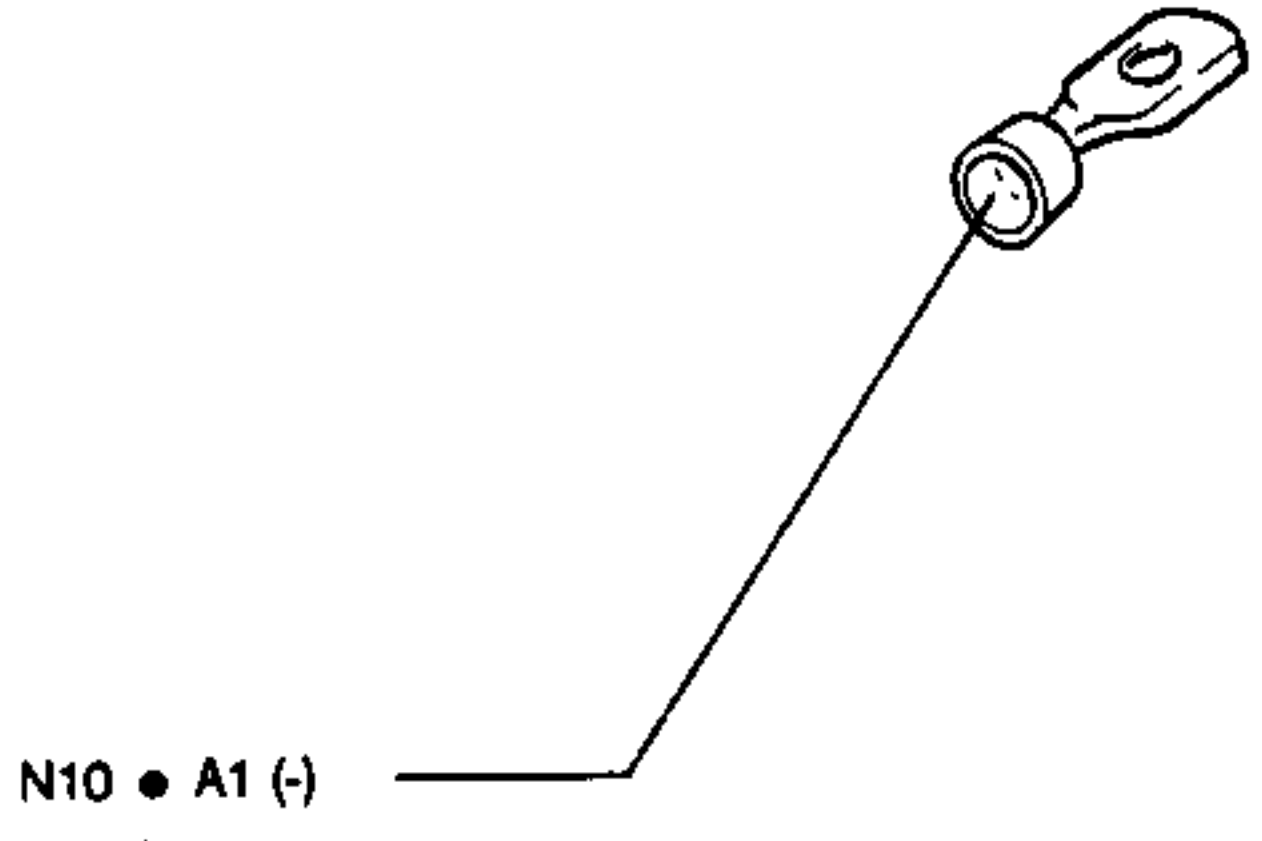
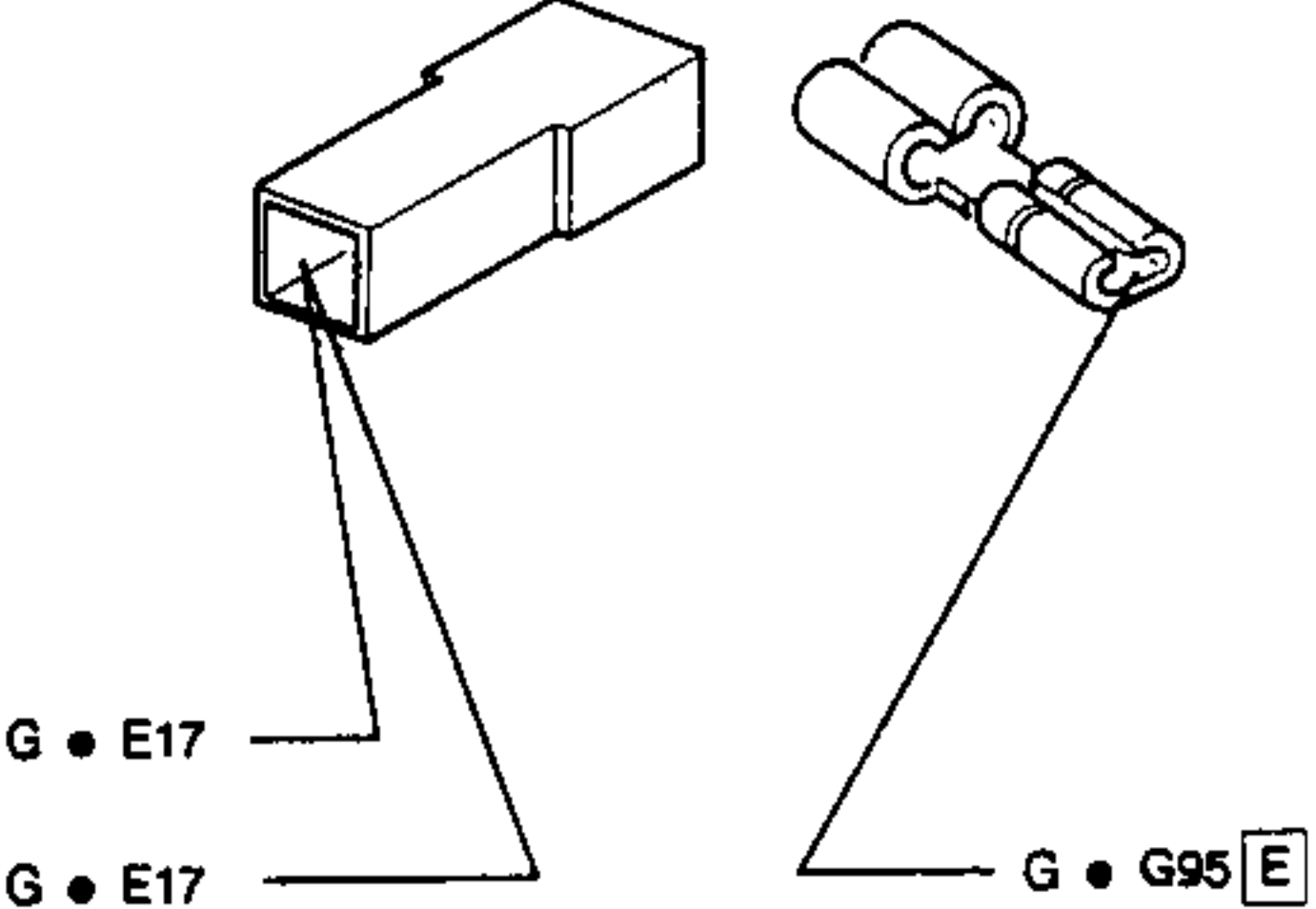
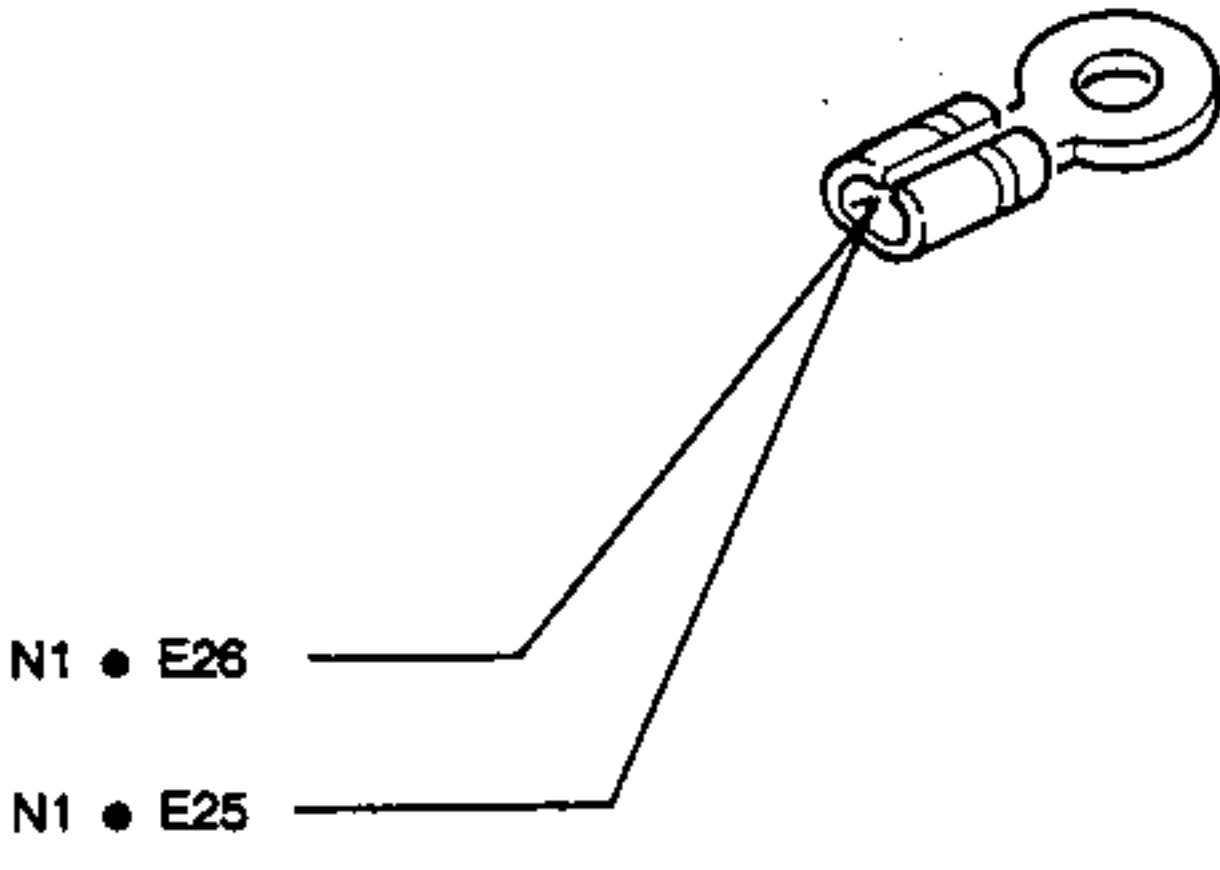
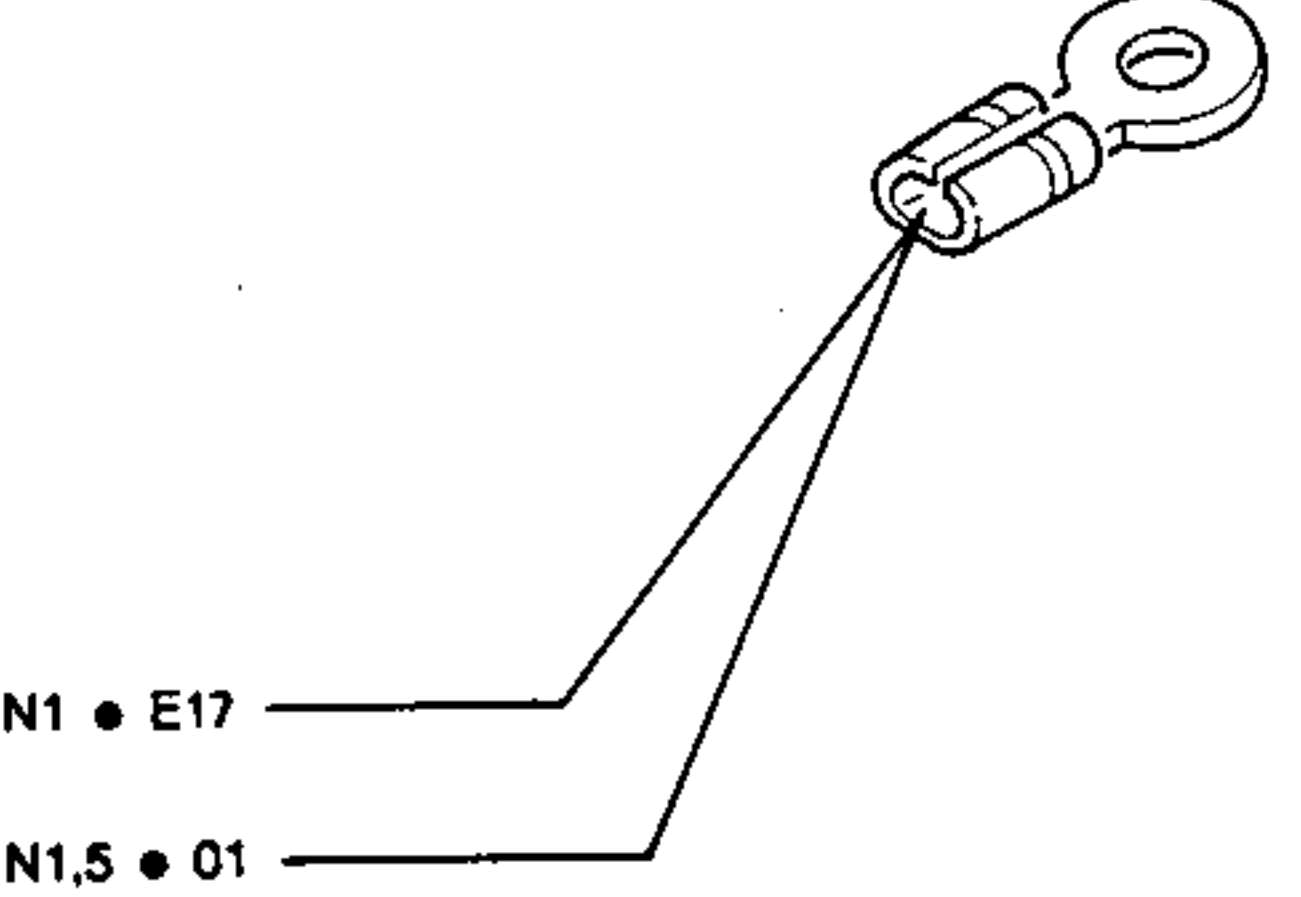
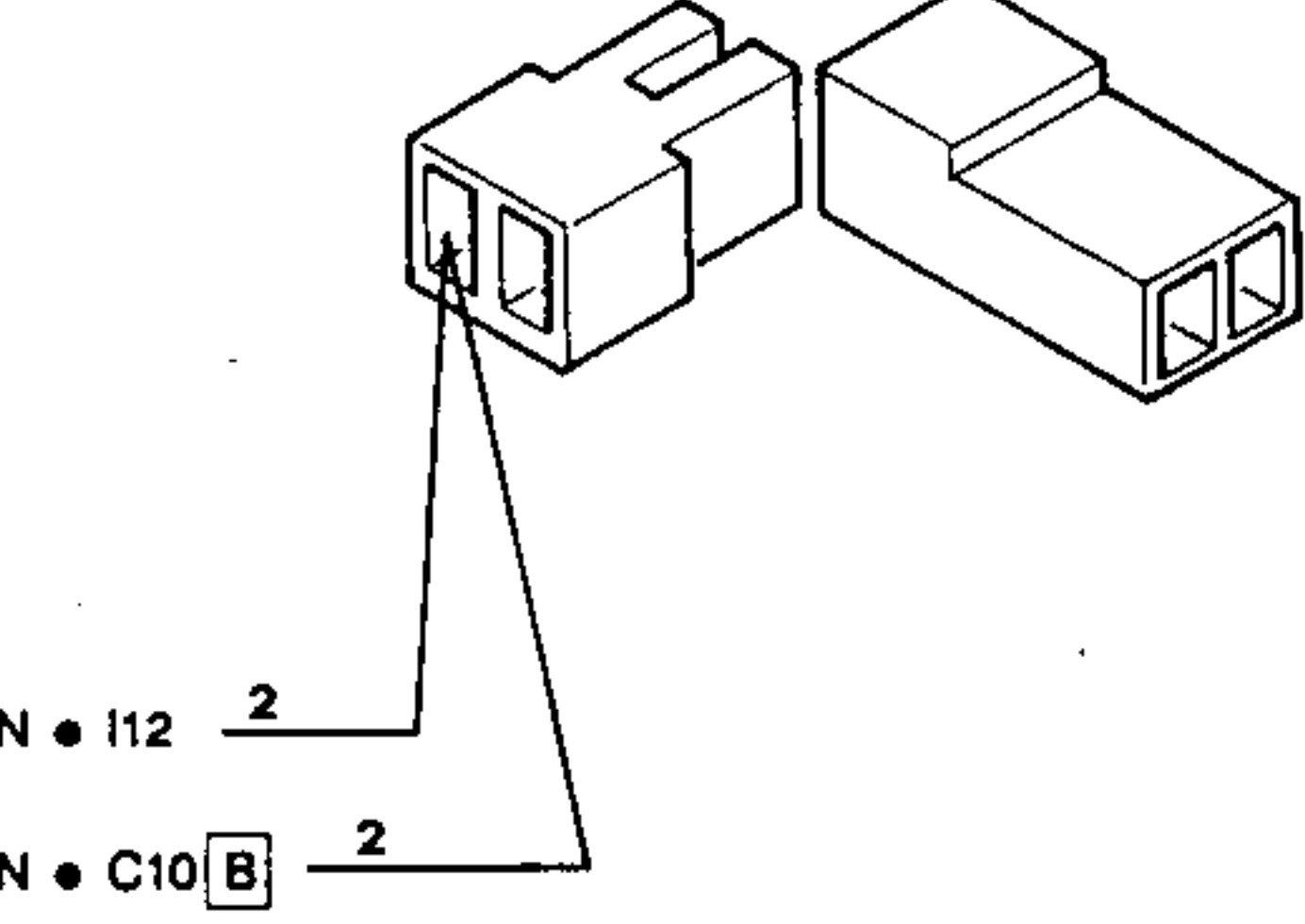
<b>Instrument panel</b>  <p>G • G95 <b>D</b> 8          N • G269 5          B0,35 • G270b (*) 5</p> <p style="text-align: right;">33.90.024</p>	<b>Numberplate light (right)</b>  <p>N1 • G266 2          N • E17 2          G • G144 1</p> <p style="text-align: right;">33.90.017</p>
<b>Numberplate light (left)</b>  <p>N • P21 2          N • E17 2          G • G144 1</p> <p style="text-align: right;">33.90.017</p>	<b>Right tail light</b>  <p>GN • G73 1          N1 • G185 6          N • F5 6</p> <p style="text-align: right;">33.90.033</p>
<b>Left tail light</b>  <p>G • G73 1          N1 • G185 6          N • P22 6</p> <p style="text-align: right;">33.90.033</p>	<b>Branch terminal board</b>  <p>R2,5 • B1          R2,5 • B68 <b>A</b>          R10 • A1 (+)</p> <p style="text-align: right;">33.90.066</p>

(\*) Specific to 4 x 4 version

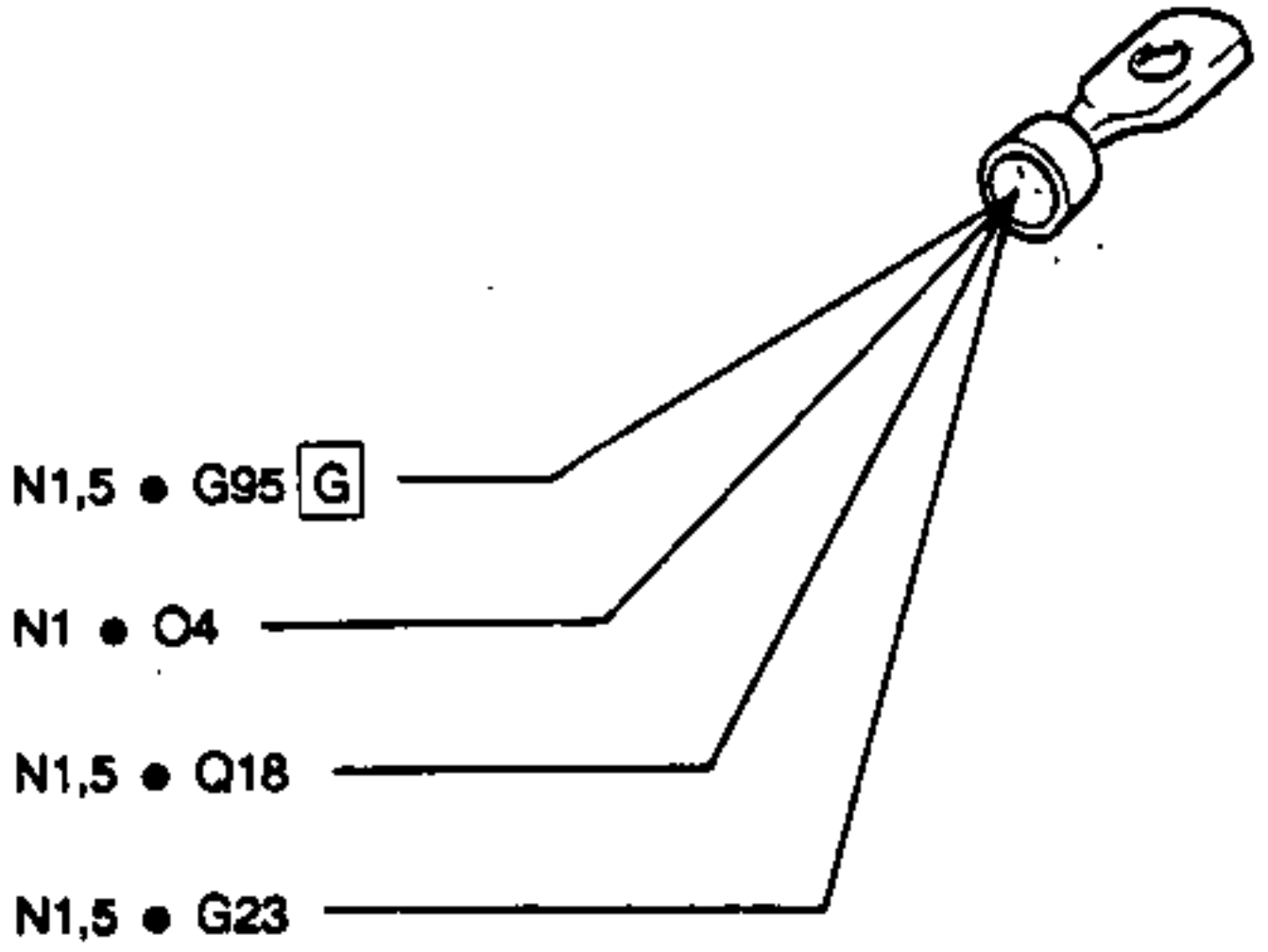
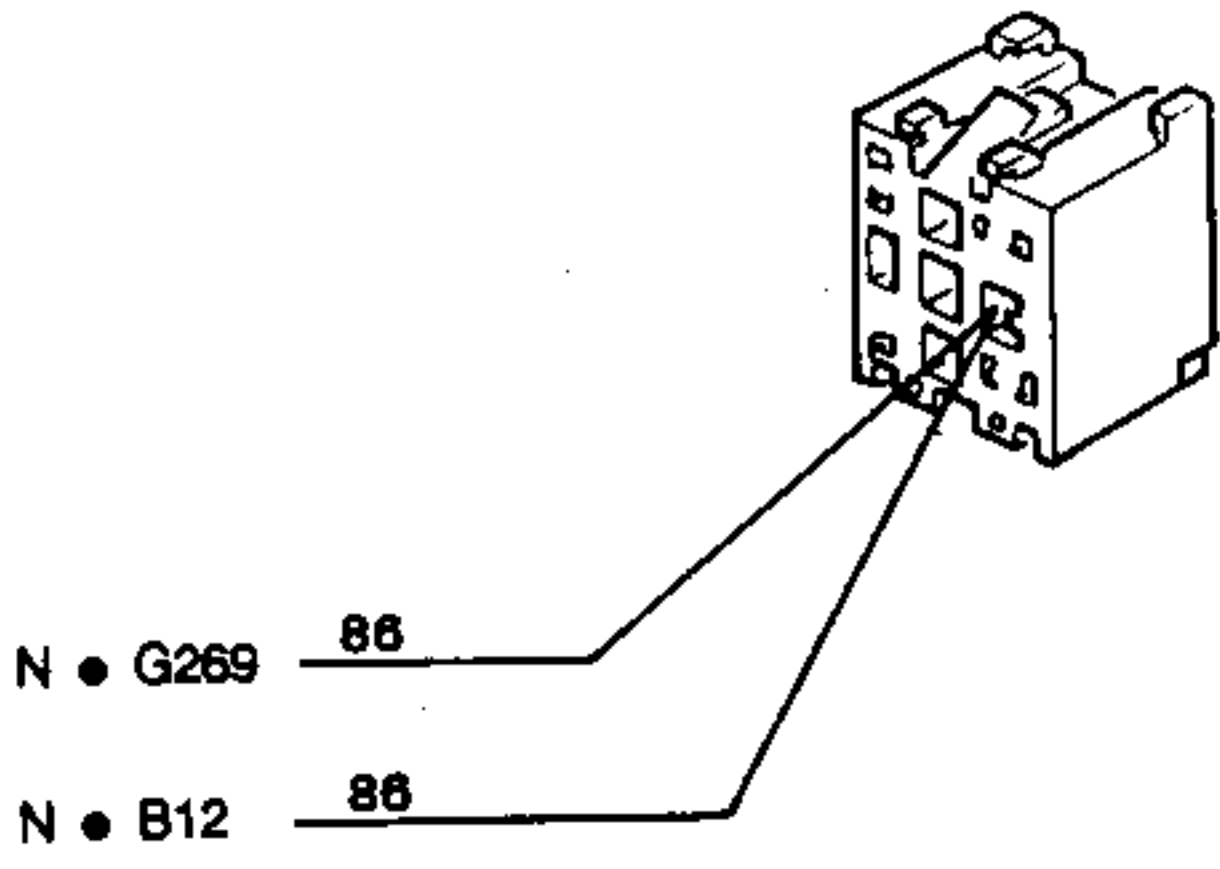
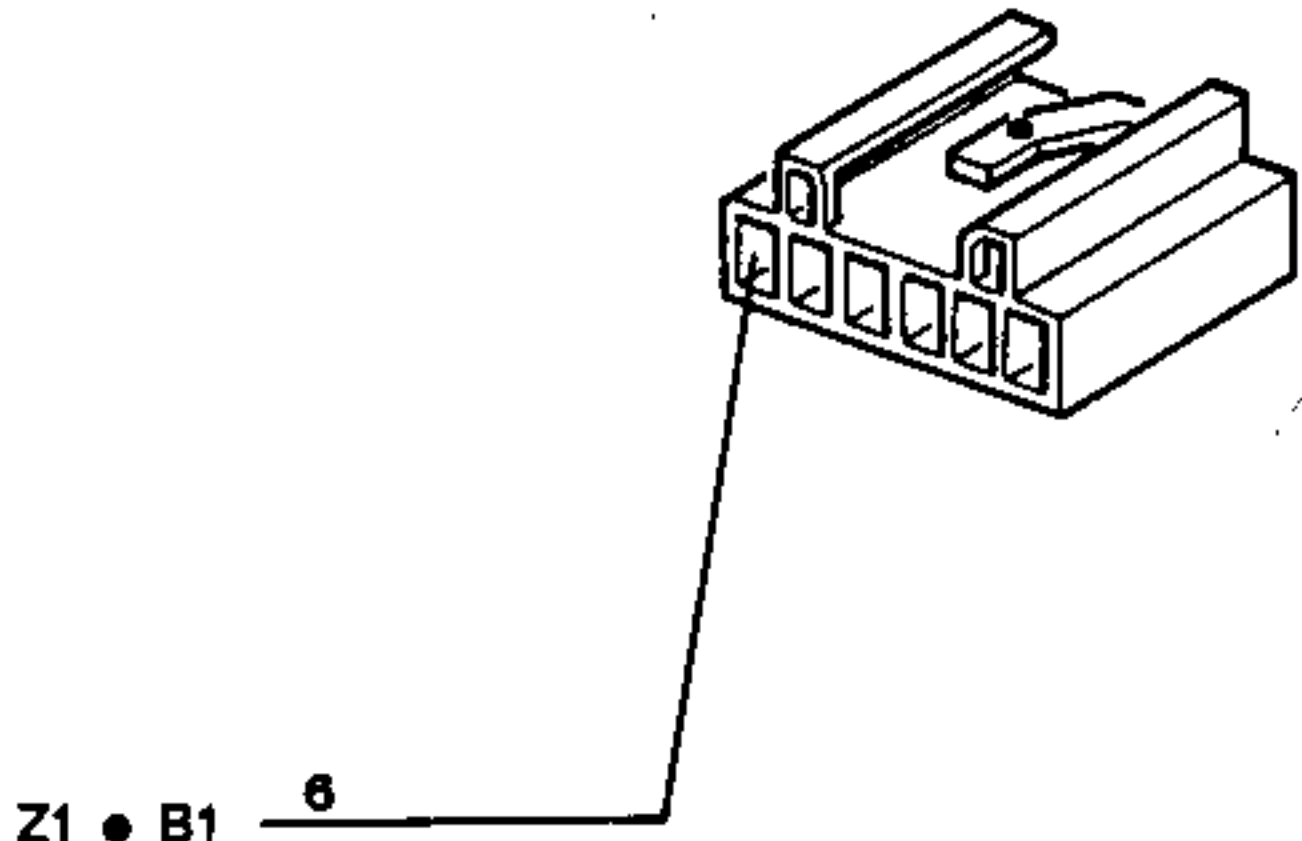
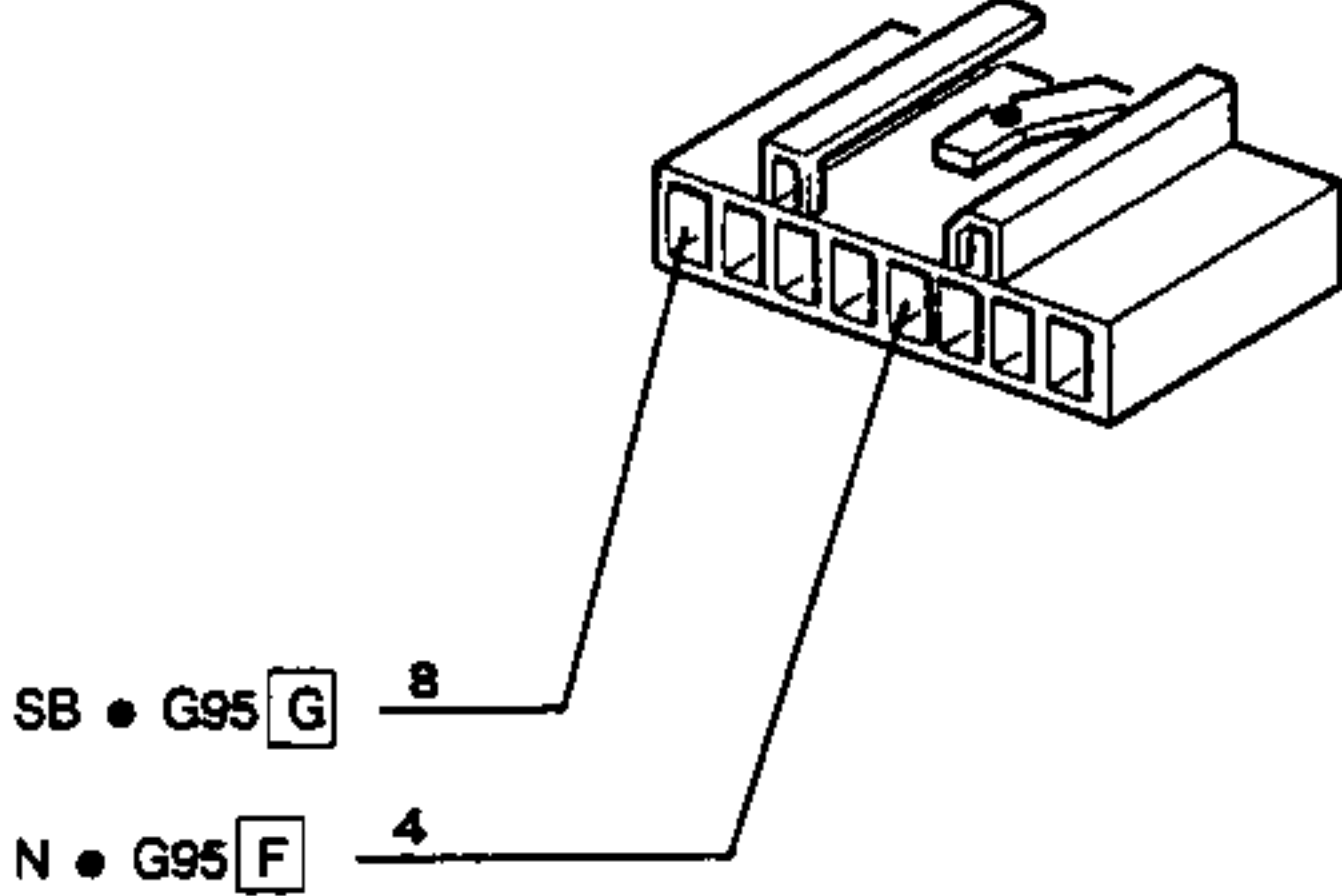
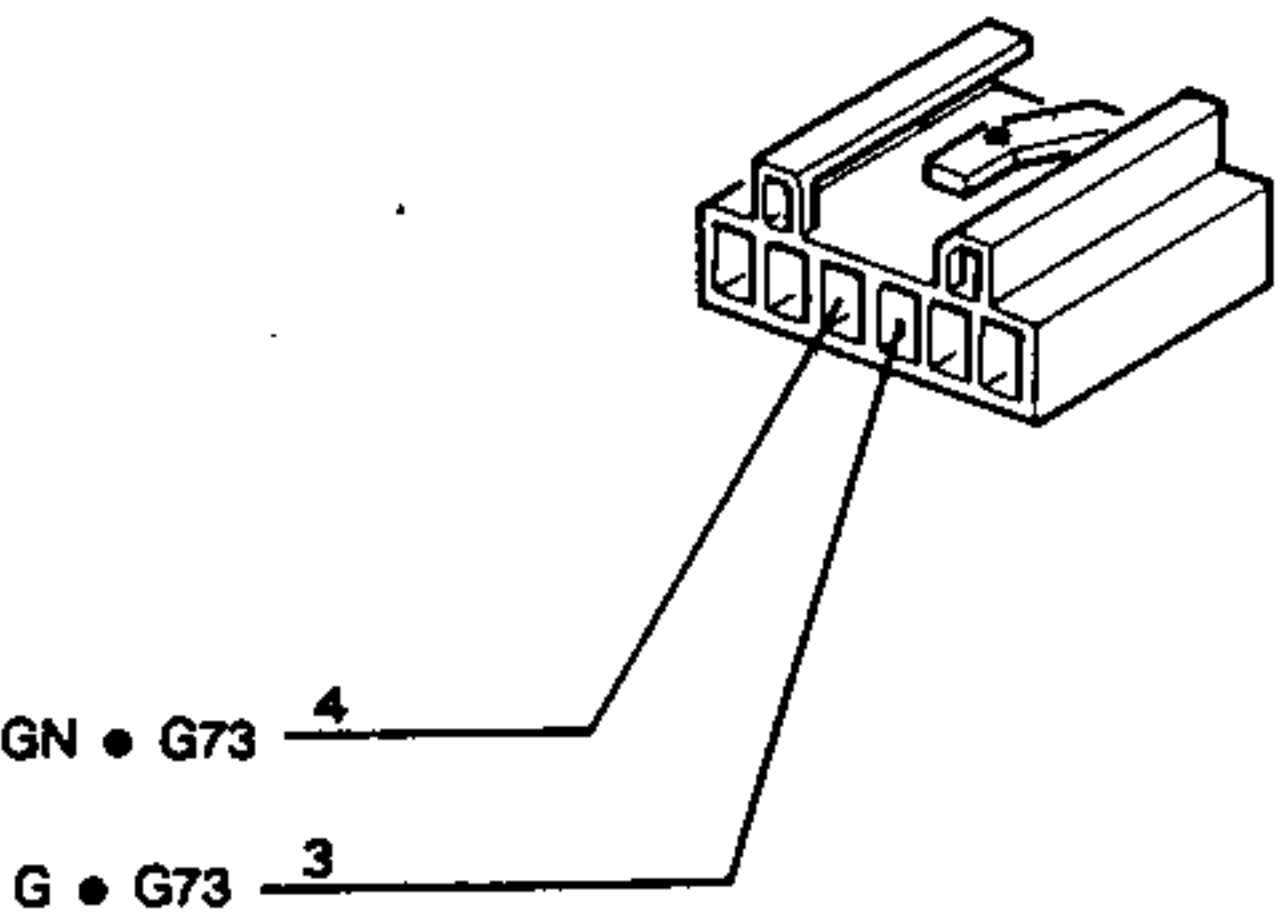
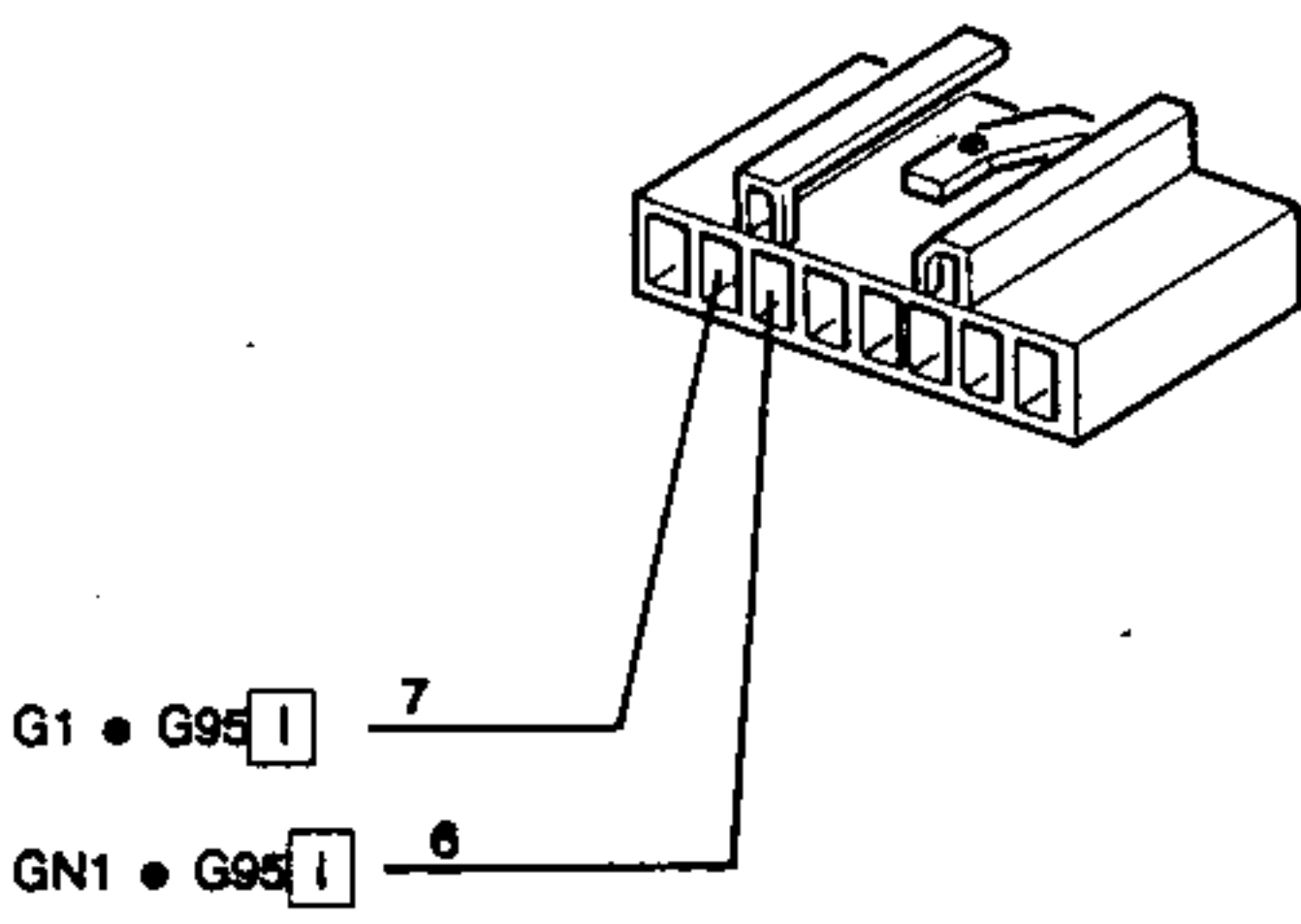
ELECTRICAL SYSTEM

<p>Connector for rear services</p>	<p>G73</p>	<p>Central fusebox</p>	<p>G95 D</p>
<p>GN • N22 [C] 2 G • N22 [C] 1 GN • E25 2 G • E26 1</p>		<p>G • C10 [B] 10 G • G95 [D] 10 G • G95 [D] 5 G • B10 5</p>	
<p>33.90.018</p>		<p>33.90.004</p>	
<p>Central fusebox</p>	<p>G95 E</p>	<p>Central fusebox</p>	<p>G95 F</p>
<p>G • G144 2 G • C7 2</p>		<p>N • B12 10 N • N22 [B] 10</p>	
<p>33.90.003</p>		<p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 G</p>	<p>Central fusebox</p>	<p>G95 H</p>
<p>SB • N22 [B] 2 SB1 • B9 2 N1,5 • G283 1</p>		<p>G1,5 • B68 [D] 3 M1,5 • B1 2</p>	
<p>33.90.005</p>		<p>33.90.004</p>	

# ELECTRICAL SYSTEM

<p style="text-align: center;"><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 I</b></p>  <p style="margin-left: 20px;">GN1 • N22 [D] — 3</p> <p style="margin-left: 20px;">G1 • N22 [D] — 2</p> <p style="text-align: right;">33.90.004</p>	<p style="text-align: center;"><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>  <p style="margin-left: 20px;">N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>
<p style="text-align: center;"><b>Boot lid wiring connection</b></p> <p style="text-align: right;"><b>G144</b></p>  <p style="margin-left: 20px;">G • E17</p> <p style="margin-left: 20px;">G • E17</p> <p style="margin-left: 20px;">G • G95 [E]</p> <p style="text-align: right;">33.90.067</p>	<p style="text-align: center;"><b>Luggage compartment earth - left side</b></p> <p style="text-align: right;"><b>G185</b></p>  <p style="margin-left: 20px;">N1 • E26</p> <p style="margin-left: 20px;">N1 • E25</p> <p style="text-align: right;">33.90.032</p>
<p style="text-align: center;"><b>Boot lid earth</b></p> <p style="text-align: right;"><b>G266</b></p>  <p style="margin-left: 20px;">N1 • E17</p> <p style="margin-left: 20px;">N1,5 • 01</p> <p style="text-align: right;">33.90.032</p>	<p style="text-align: center;"><b>Glove compartment lamp connection</b></p> <p style="text-align: right;"><b>G269</b></p>  <p style="margin-left: 20px;">N • I12 — 2</p> <p style="margin-left: 20px;">N • C10 [B] — 2</p> <p style="text-align: right;">33.90.013</p>

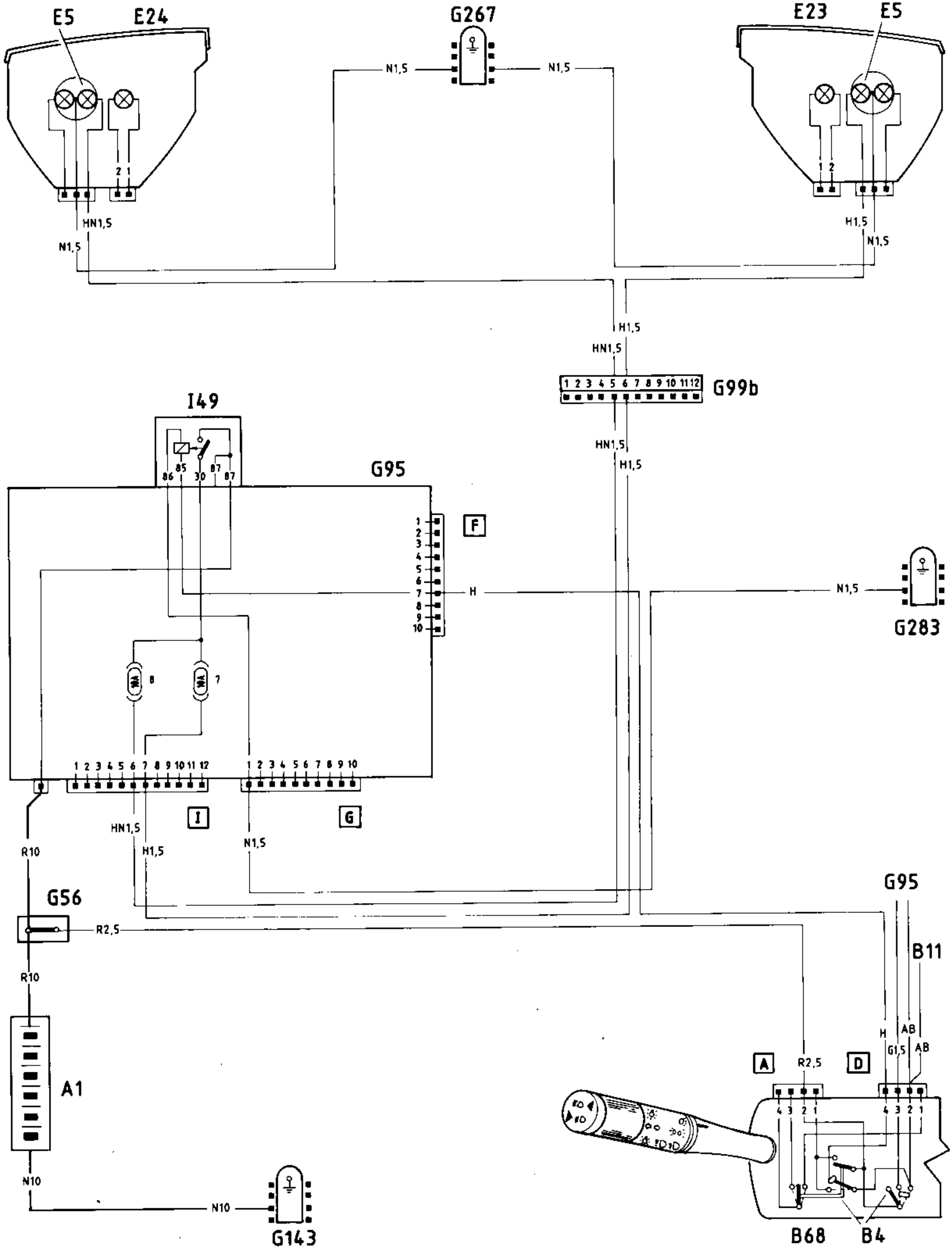
ELECTRICAL SYSTEM

<p>Earth on left service compartment</p>	<p>G283</p>	<p>Front power window relay</p>	
 <p>N1,5 • G95 <b>G</b></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p>	<p>33.90.001</p>	 <p>N • G269 86</p> <p>N • B12 86</p>	<p>33.90.007</p>
<p>ALFA ROMEO Control - control unit</p>	<p>N22 <b>A</b></p>	<p>ALFA ROMEO Control - control unit</p>	<p>N22 <b>B</b></p>
 <p>Z1 • B1 6</p>	<p>33.90.034</p>	 <p>SB • G95 <b>G</b> 8</p> <p>N • G95 <b>F</b> 4</p>	<p>33.90.024</p>
<p>ALFA ROMEO Control - control unit</p>	<p>N22 <b>C</b></p>	<p>ALFA ROMEO Control - control unit</p>	<p>N22 <b>D</b></p>
 <p>GN • G73 4</p> <p>G • G73 3</p>	<p>33.90.034</p>	 <p>G1 • G95 <b>I</b> 7</p> <p>GN1 • G95 <b>I</b> 6</p>	<p>33.90.024</p>

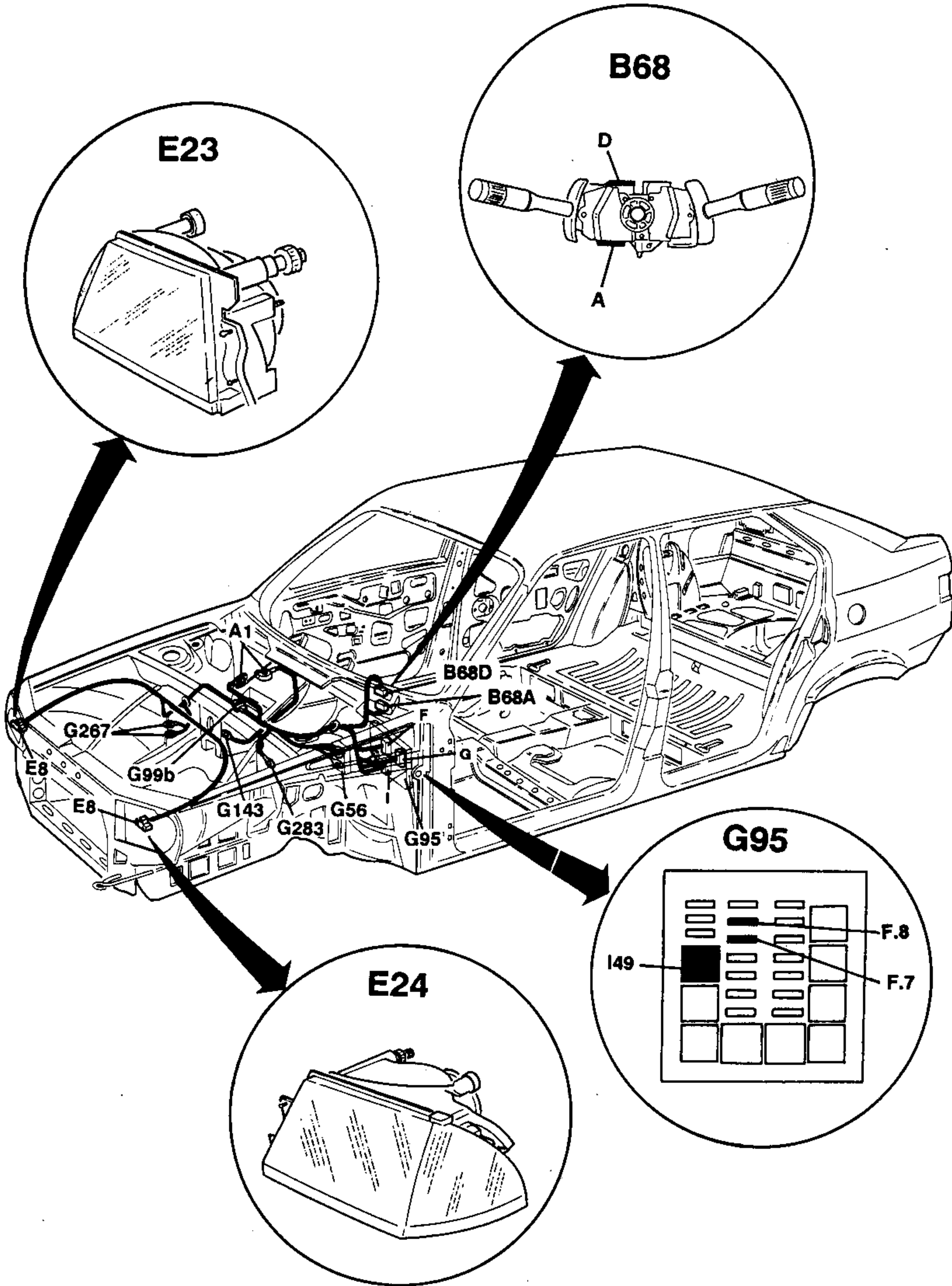


DIPPED BEAM LIGHTS

Wiring diagram

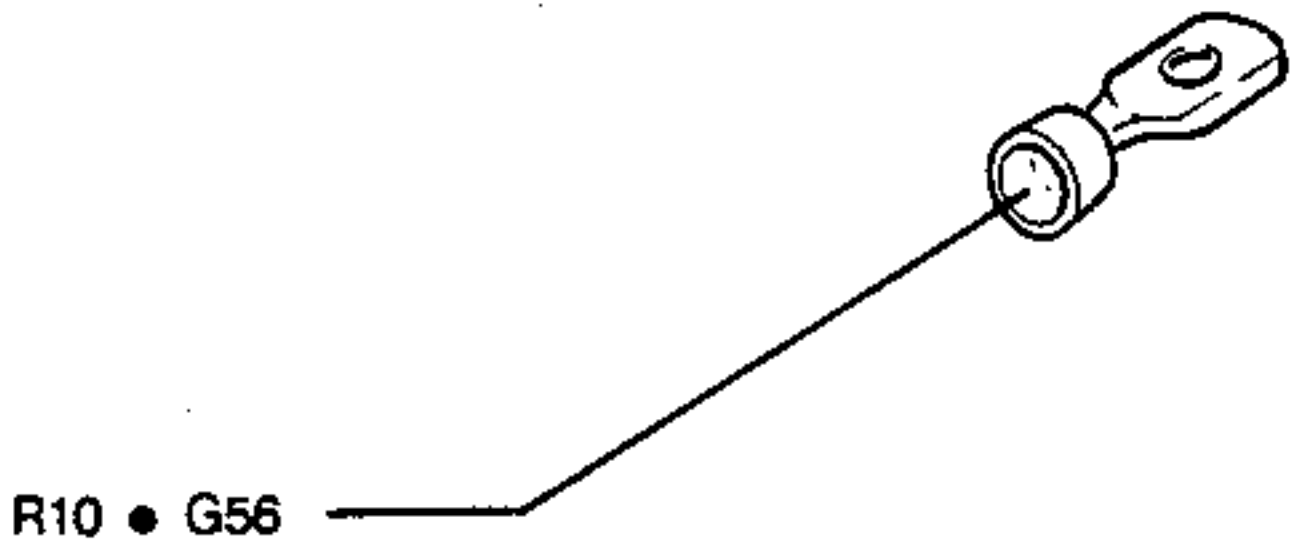
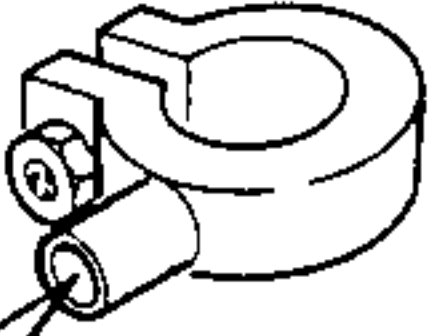
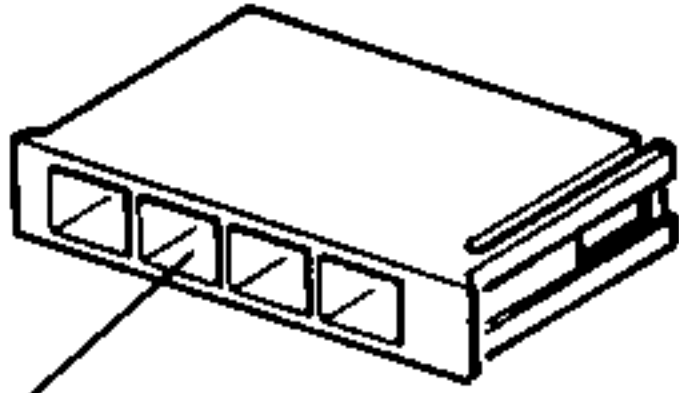
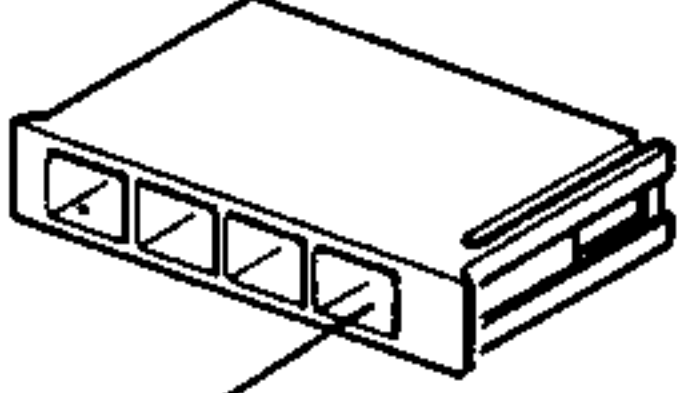
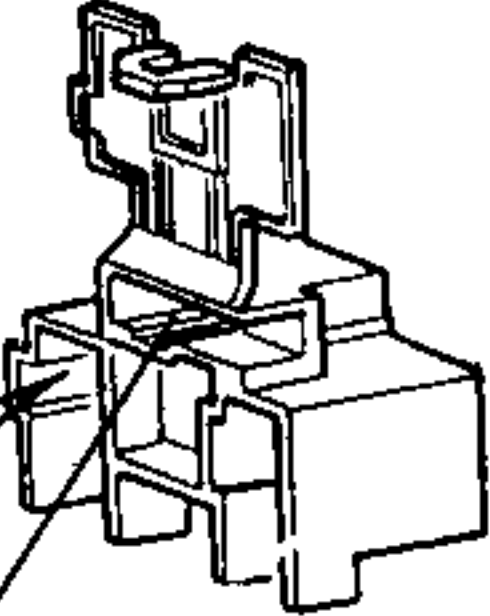
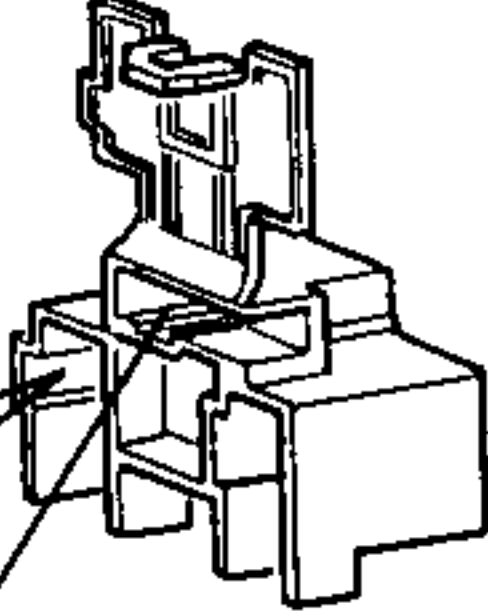


Wiring

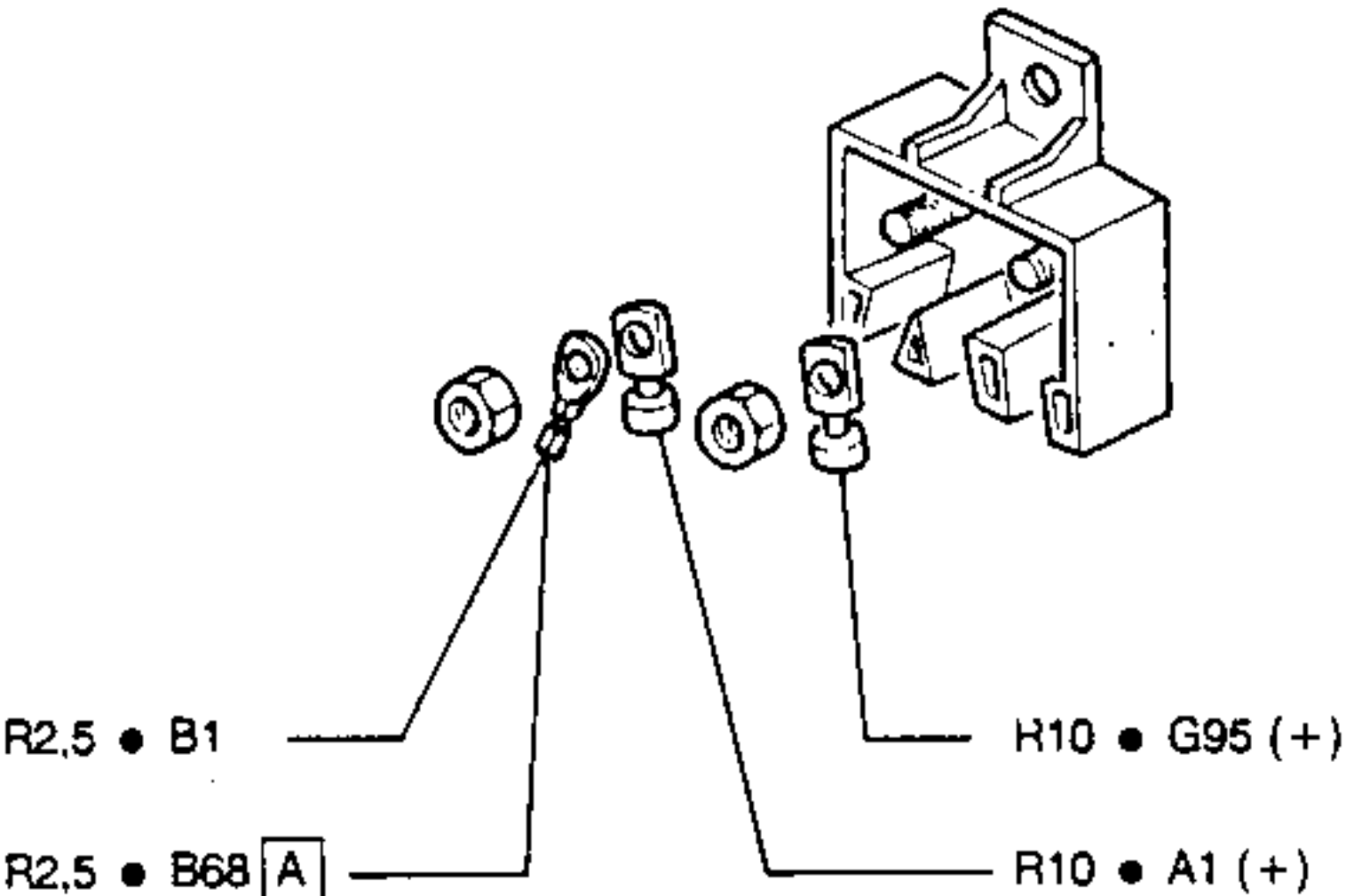
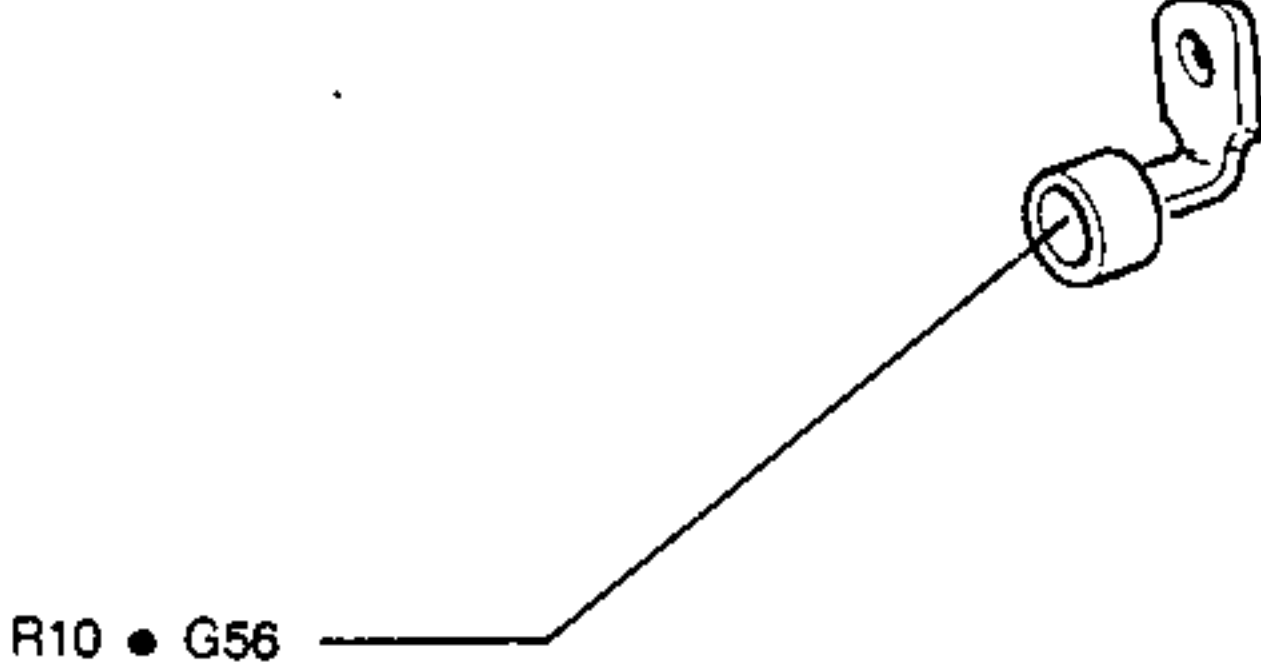
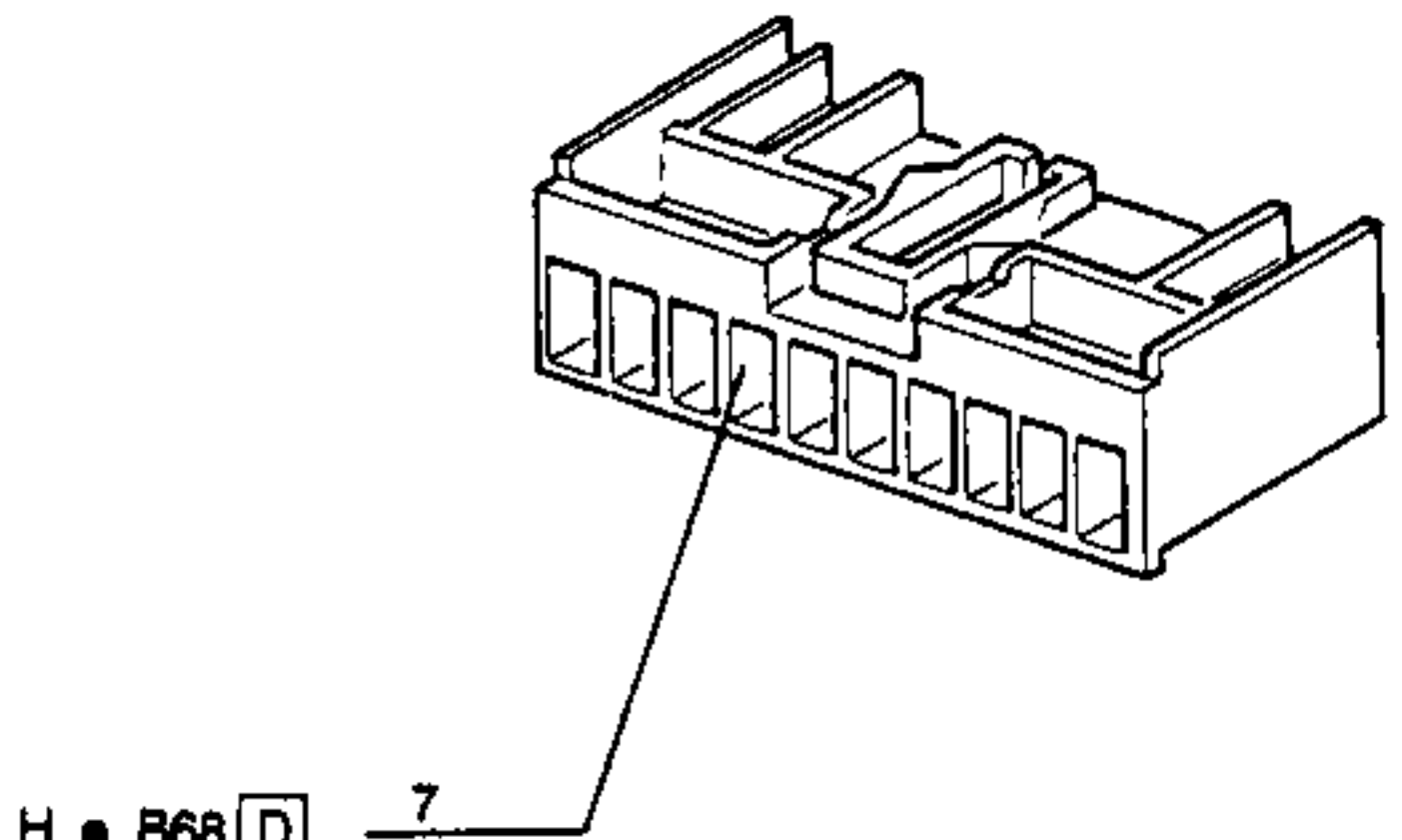
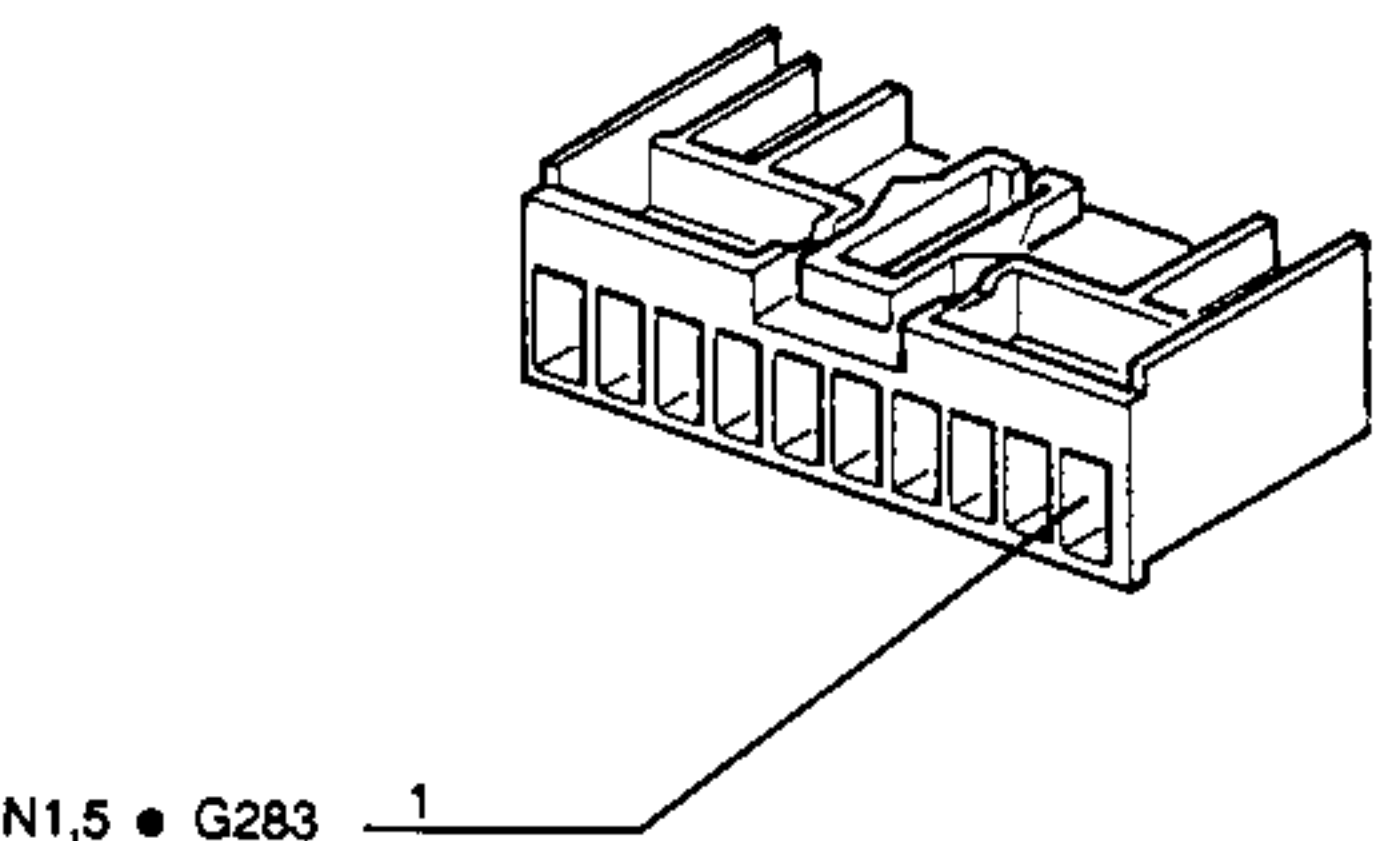
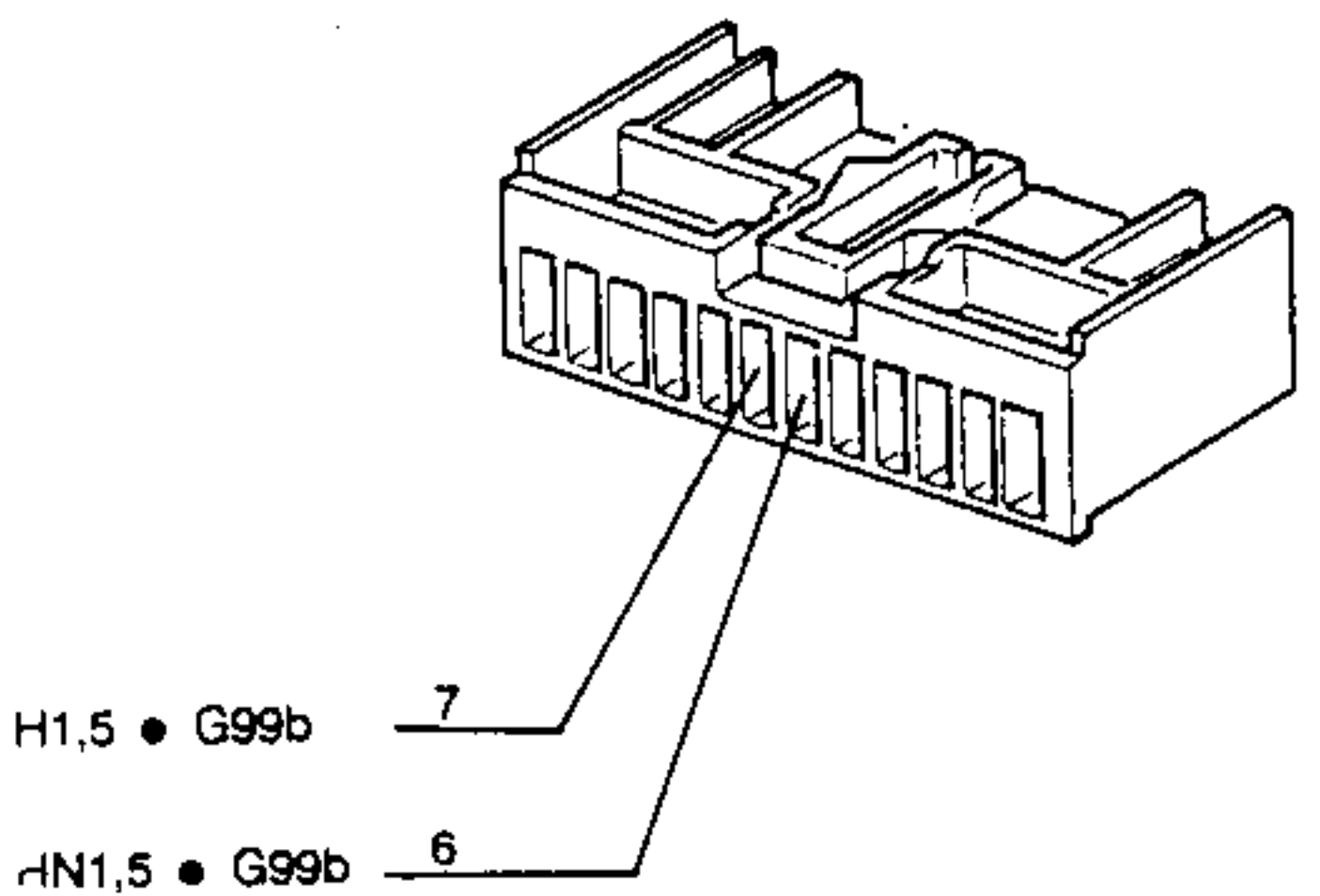
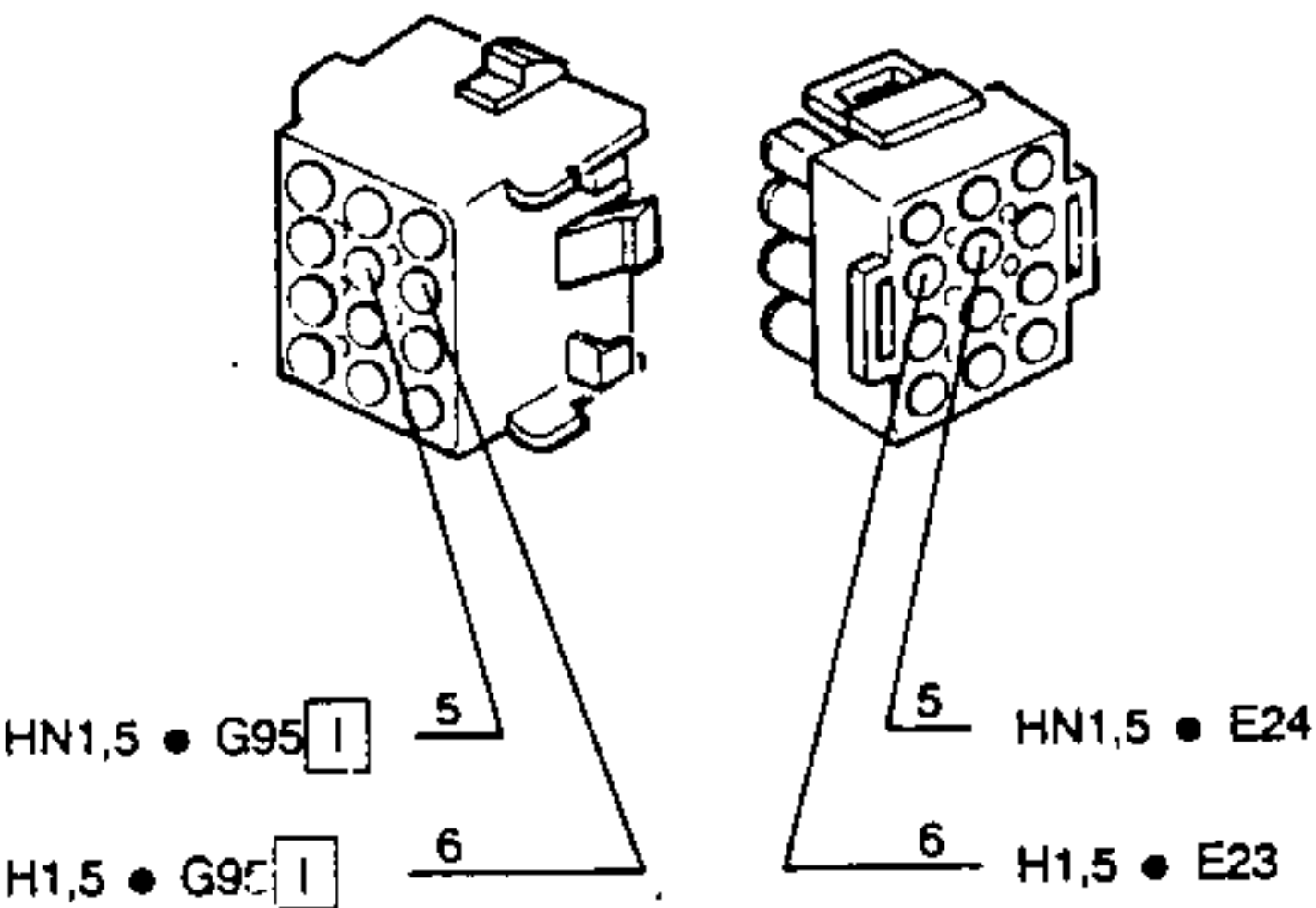


ELECTRICAL SYSTEM

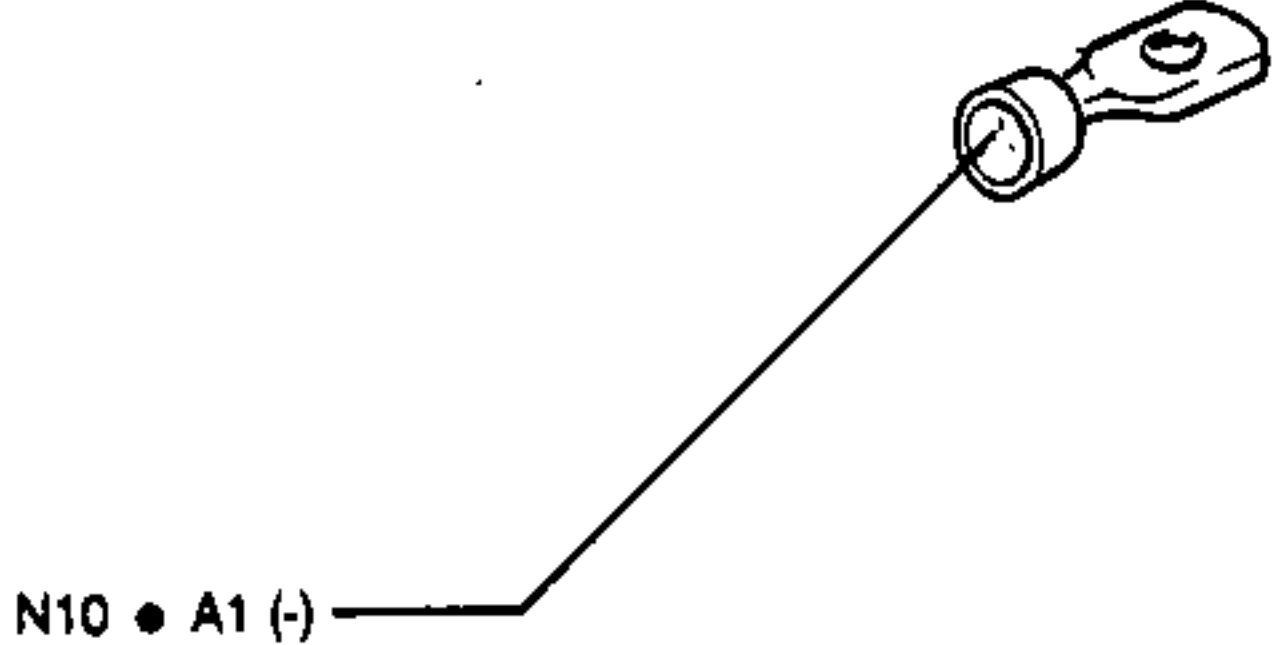
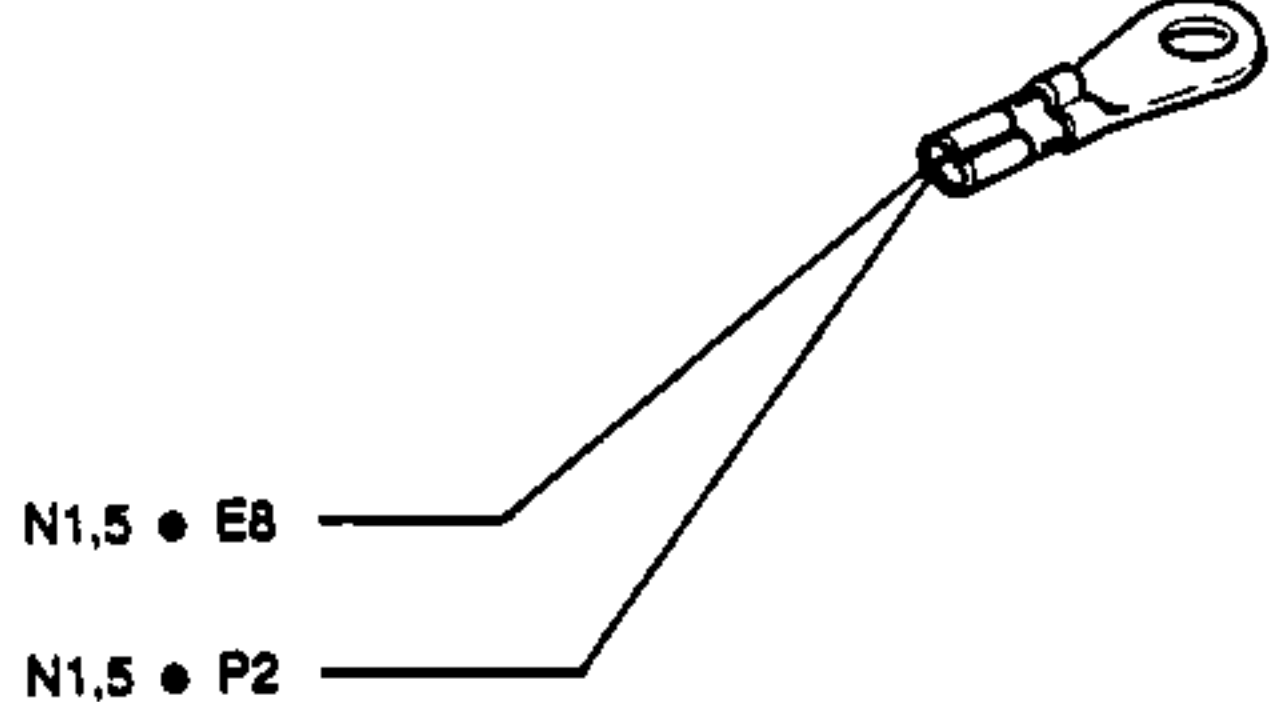
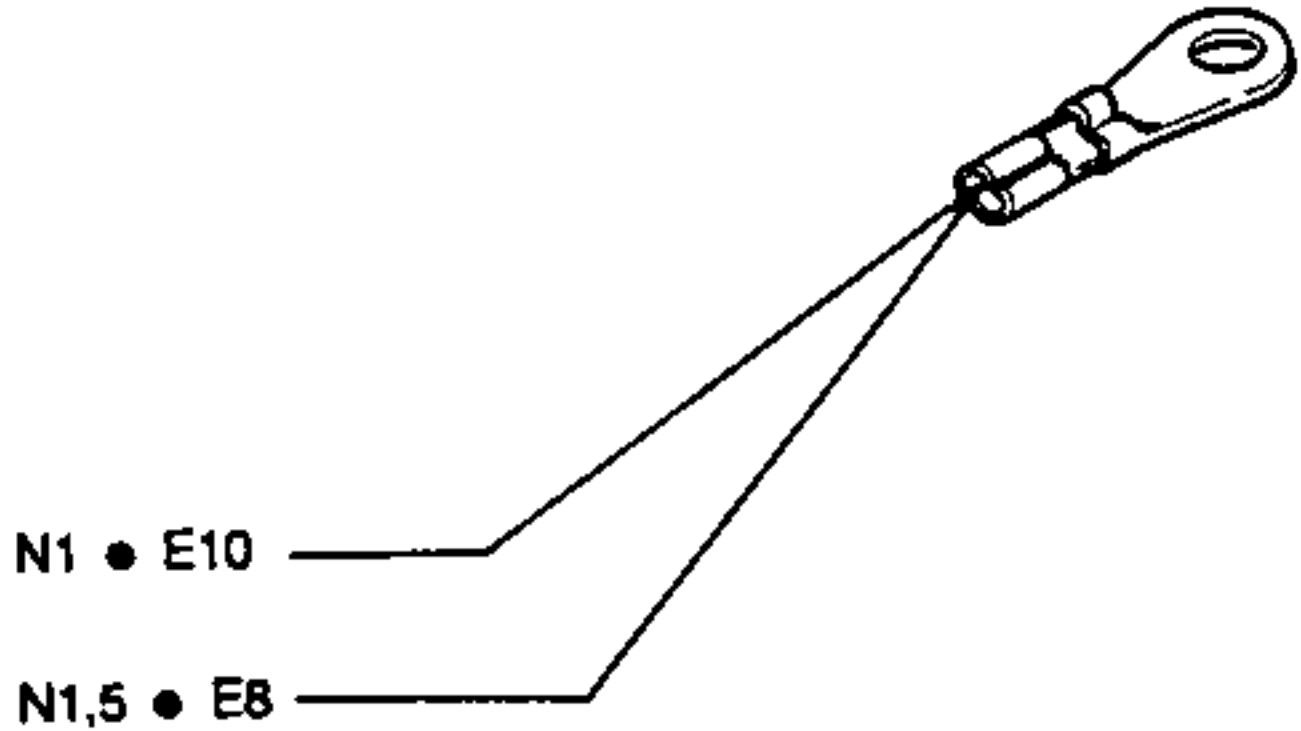
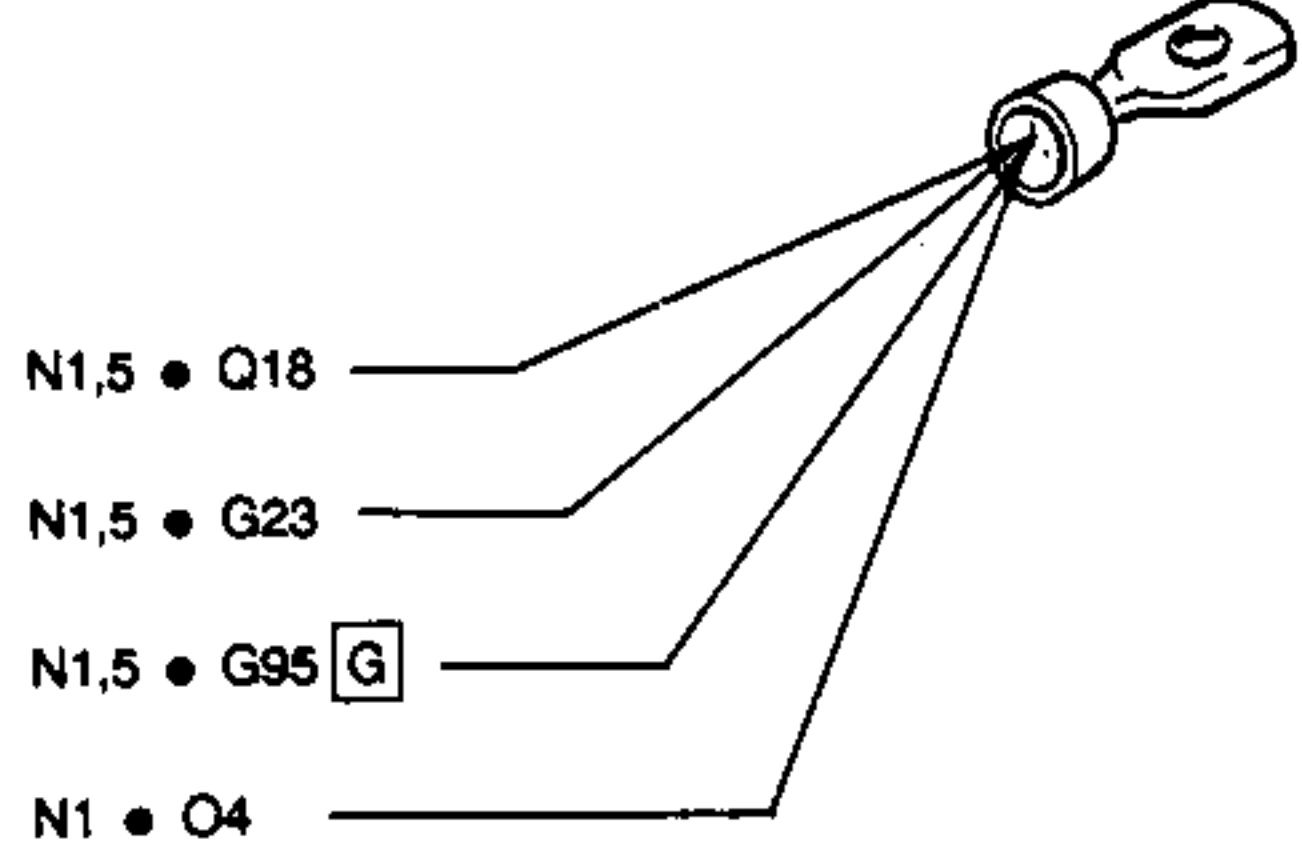
Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p> <p>33.90.001</p>	 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>		
<p>Side lights, flashing, main and dipped beam light control</p> <p>B68 A</p>		<p>Side lights, flashing, main and dipped beam light control</p> <p>B68 D</p>	
 <p>R2,5 • G56 2</p> <p>33.90.027</p>	 <p>H • G95 F 4</p> <p>33.90.027</p>		
<p>Dipped and main beam light (right)</p> <p>E8</p>		<p>Dipped and main beam light (left)</p> <p>E8</p>	
 <p>N1,5 • G267</p> <p>N • E2</p> <p>H1,5 • G99b</p> <p>33.90.026</p>	 <p>N1,5 • G267</p> <p>N • E2</p> <p>HN1,5 • G99b</p> <p>33.90.026</p>		

ELECTRICAL SYSTEM

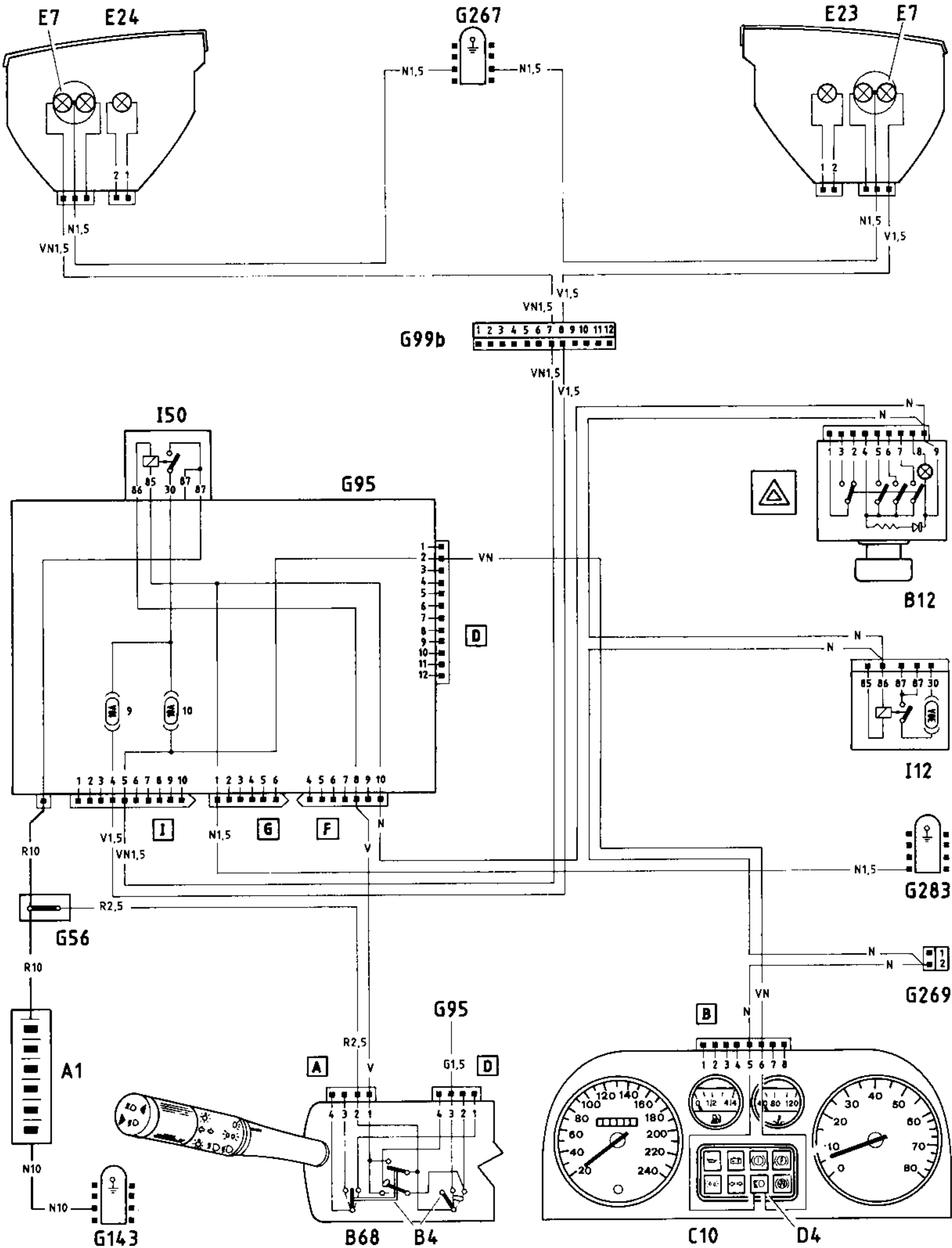
<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox (+)</p>	<p>G95</p>
 <p>R2,5 • B1</p> <p>R2,5 • B68 [A]</p> <p>H10 • G95 (+)</p> <p>R10 • A1 (+)</p> <p>33.90.011</p>		 <p>R10 • G56</p> <p>33.90.006</p>	
<p>Central fusebox</p>	<p>G95 [F]</p>	<p>Central fusebox</p>	<p>G95 [G]</p>
 <p>H • B68 [D] 7</p> <p>33.90.005</p>		 <p>N1,5 • G283 1</p> <p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 [I]</p>	<p>Connector for engine dashboard B</p>	<p>G99 b</p>
 <p>H1,5 • G99b 7</p> <p>HN1,5 • G99b 6</p> <p>33.90.004</p>		 <p>HN1,5 • G95 [I] 5</p> <p>H1,5 • G95 [I] 6</p> <p>HN1,5 • E24 5</p> <p>H1,5 • E23 6</p> <p>33.90.016</p>	

**ELECTRICAL SYSTEM**

<p align="center">Central service compartment earth</p>	<p align="center"><b>G143</b></p>	<p align="center">Earth cylinder block (from right services)</p>	<p align="center"><b>G267</b></p>
 <p align="right">33.90.001</p>		 <p align="right">33.90.014</p>	
<p align="center">Earth on cylinder block (from left services)</p>	<p align="center"><b>G267</b></p>	<p align="center">Earth on left service compartment</p>	<p align="center"><b>G283</b></p>
 <p align="right">33.90.014</p>		 <p align="right">33.90.001</p>	

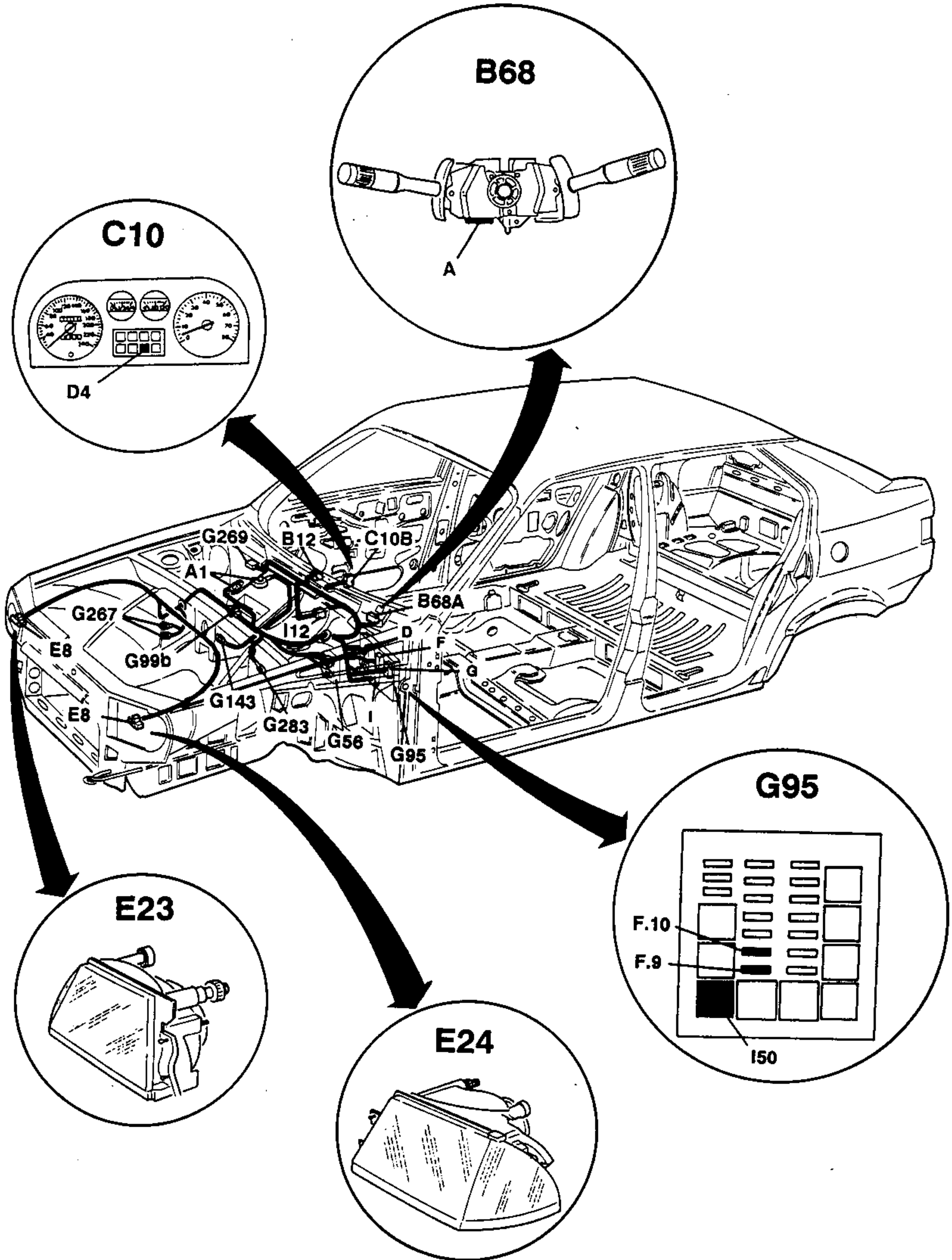
MAIN BEAM LIGHTS

Wiring diagram



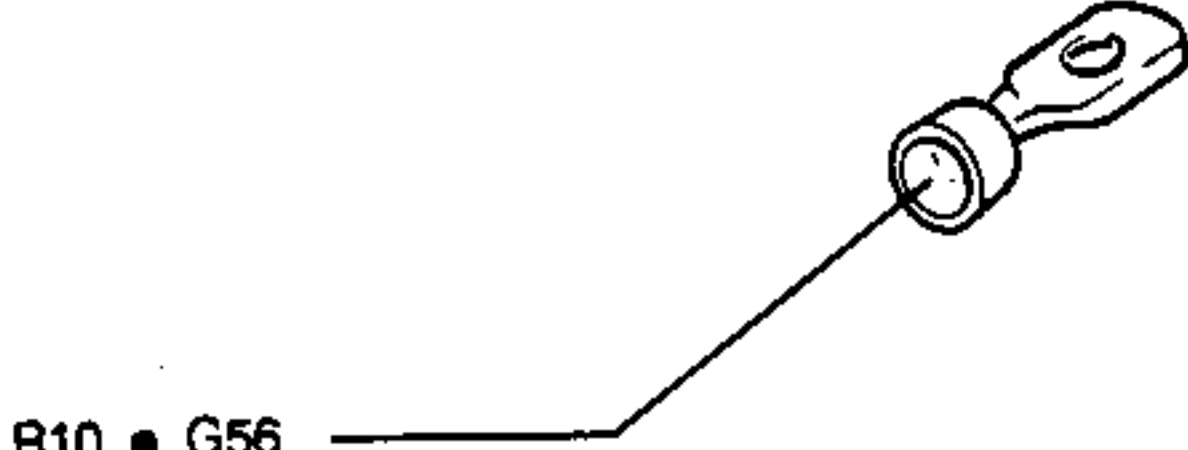
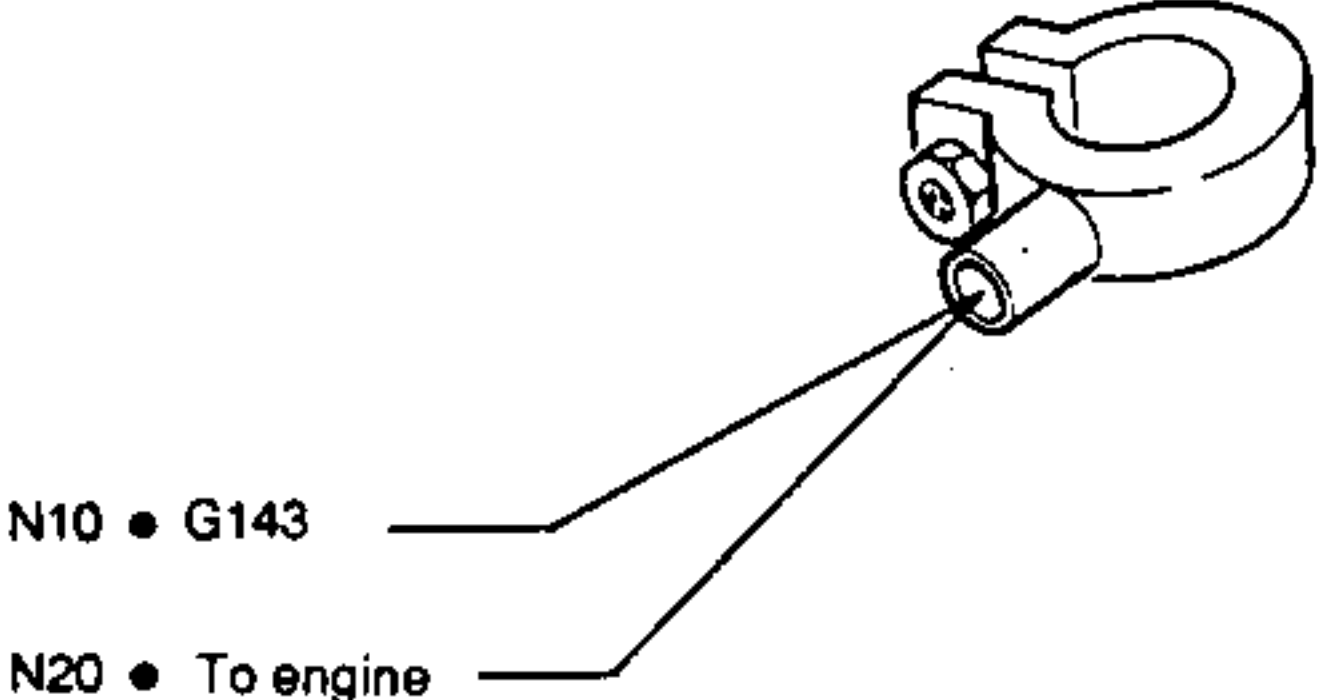
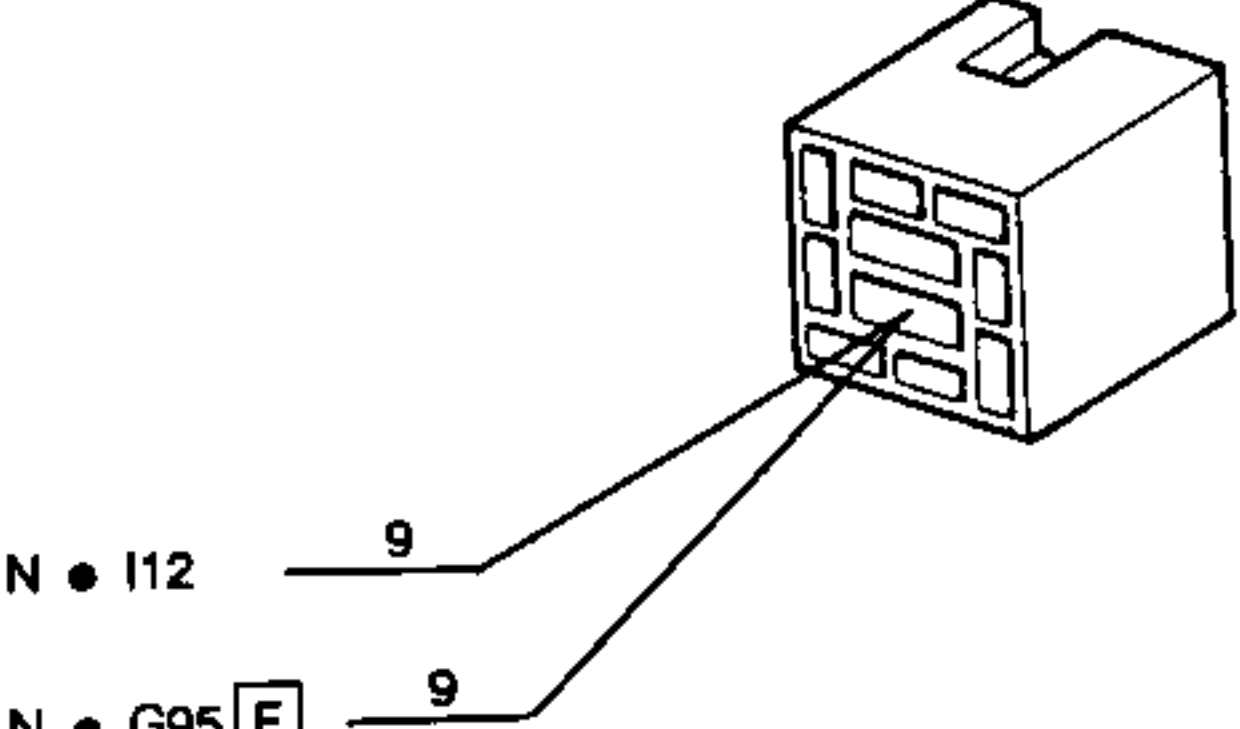
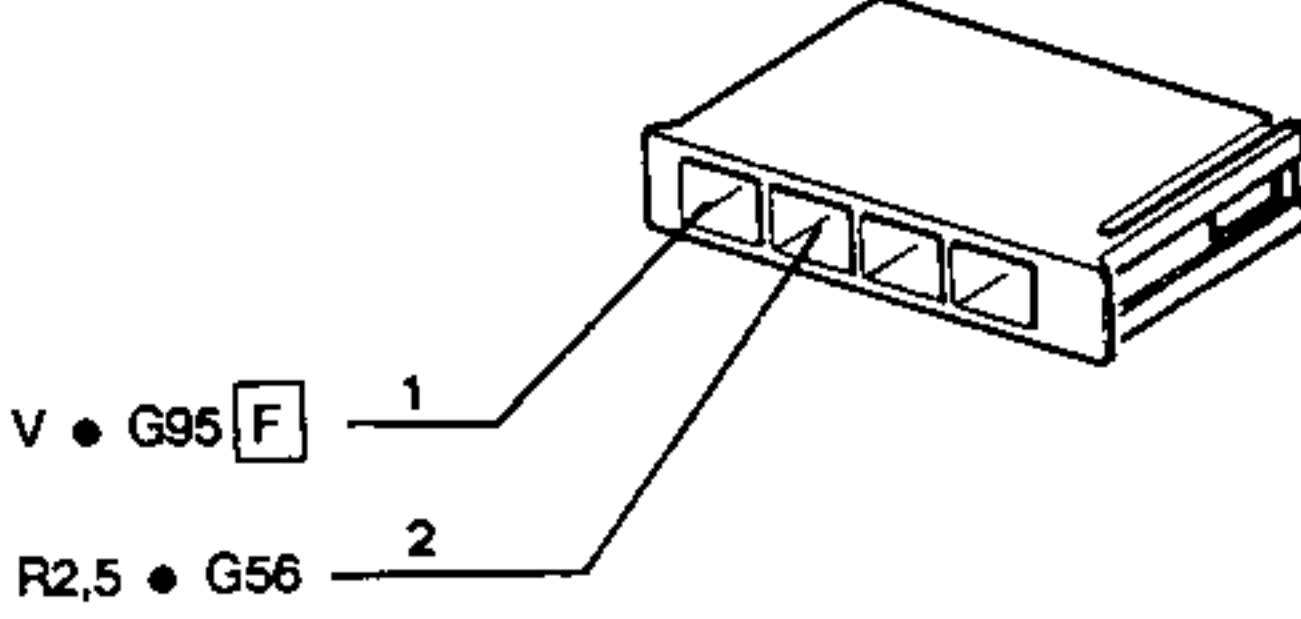
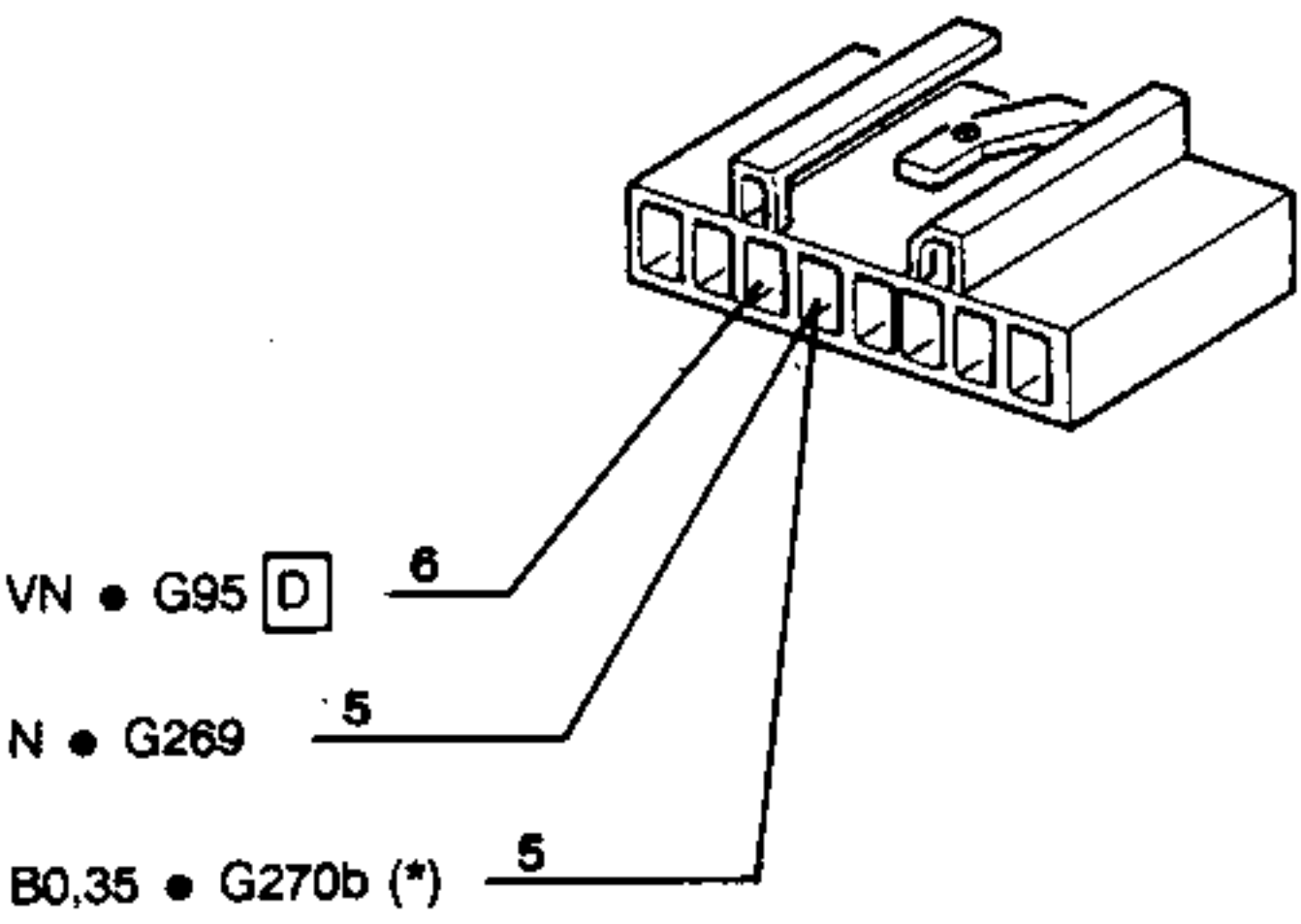
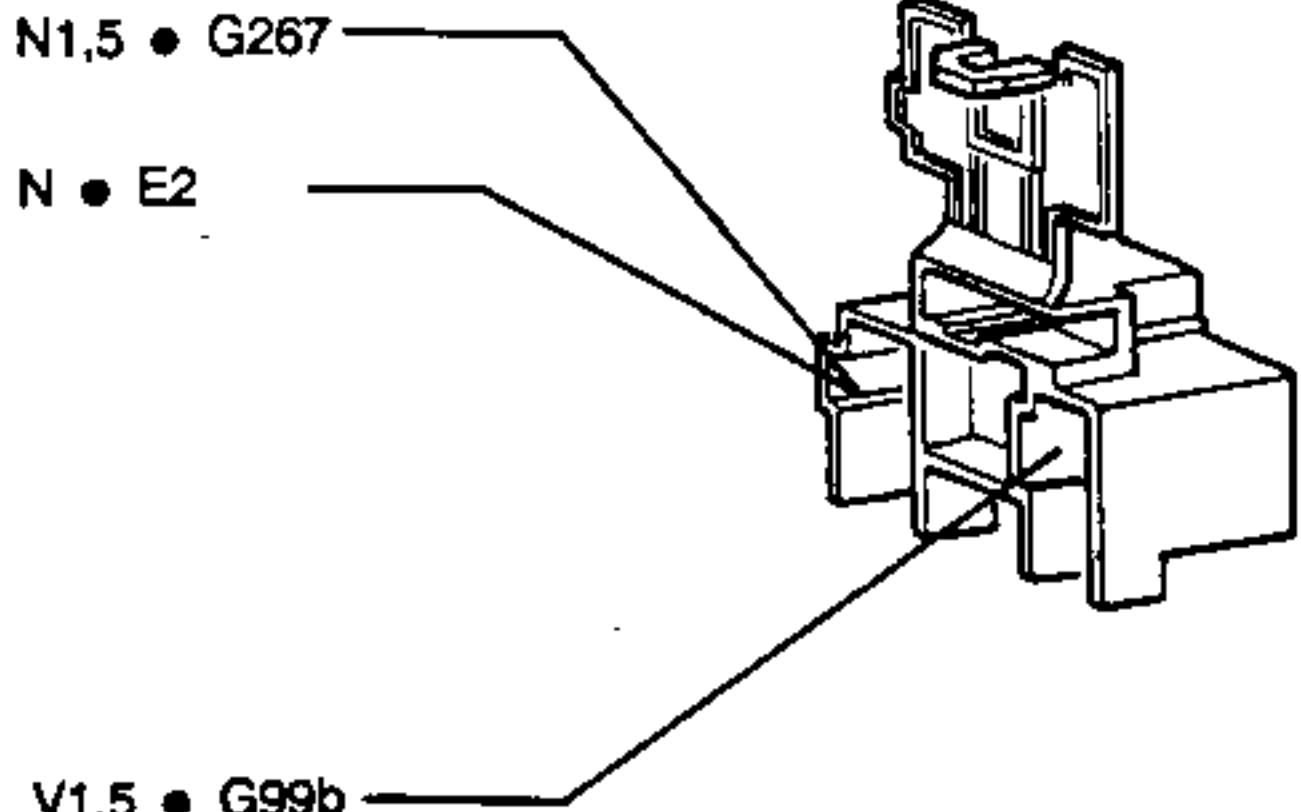
# ELECTRICAL SYSTEM

## Wiring



# ELECTRICAL SYSTEM

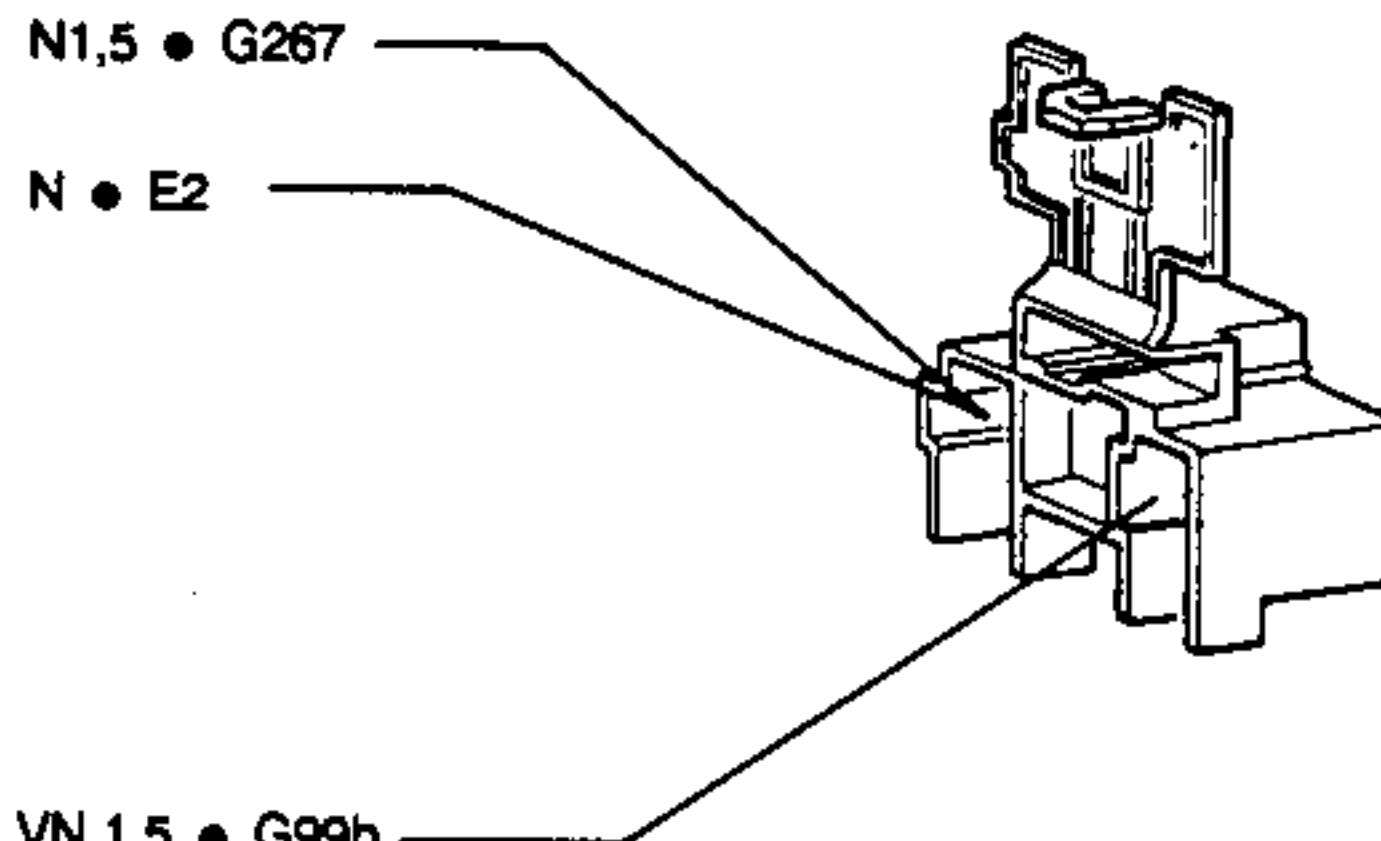
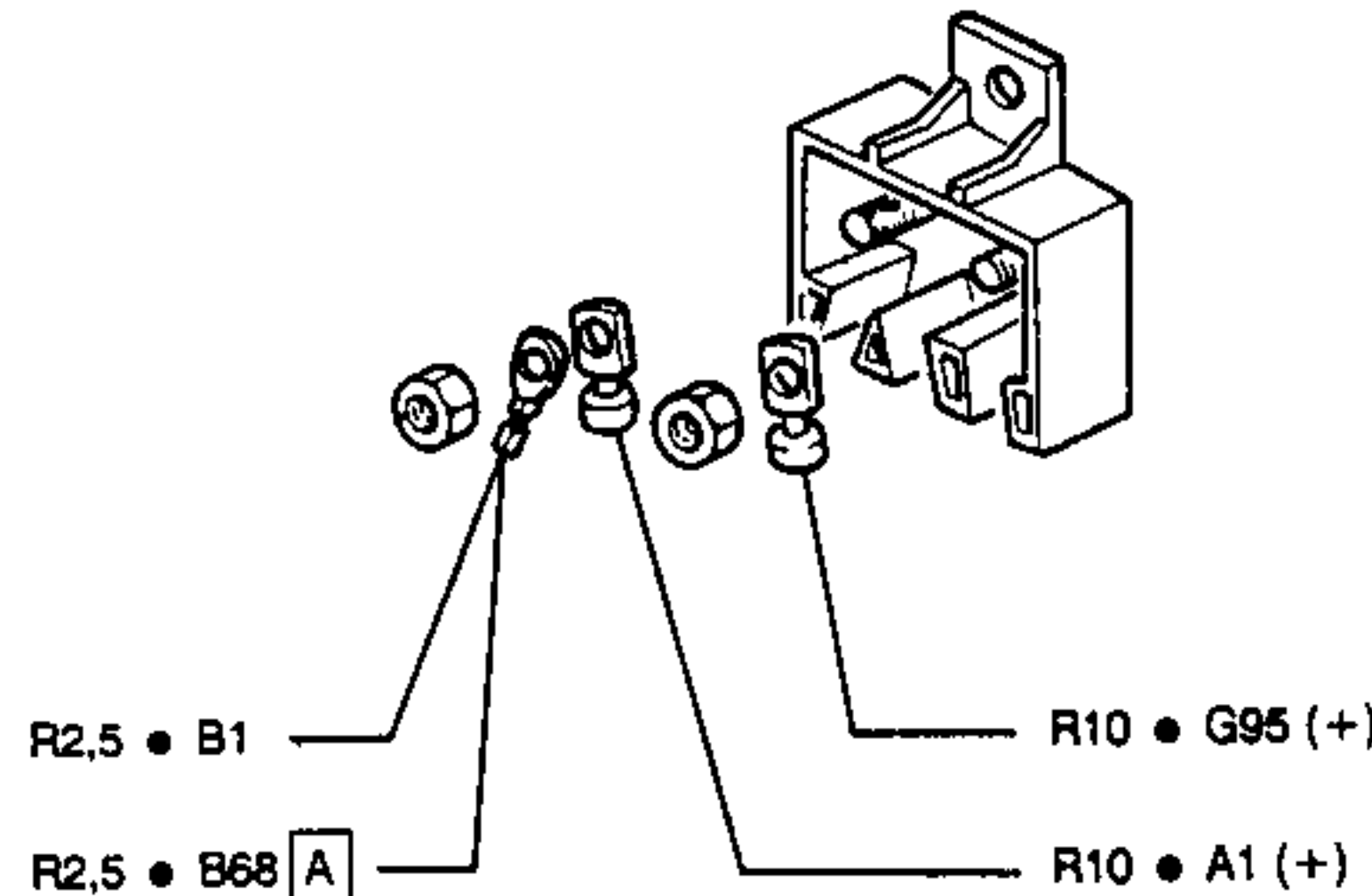
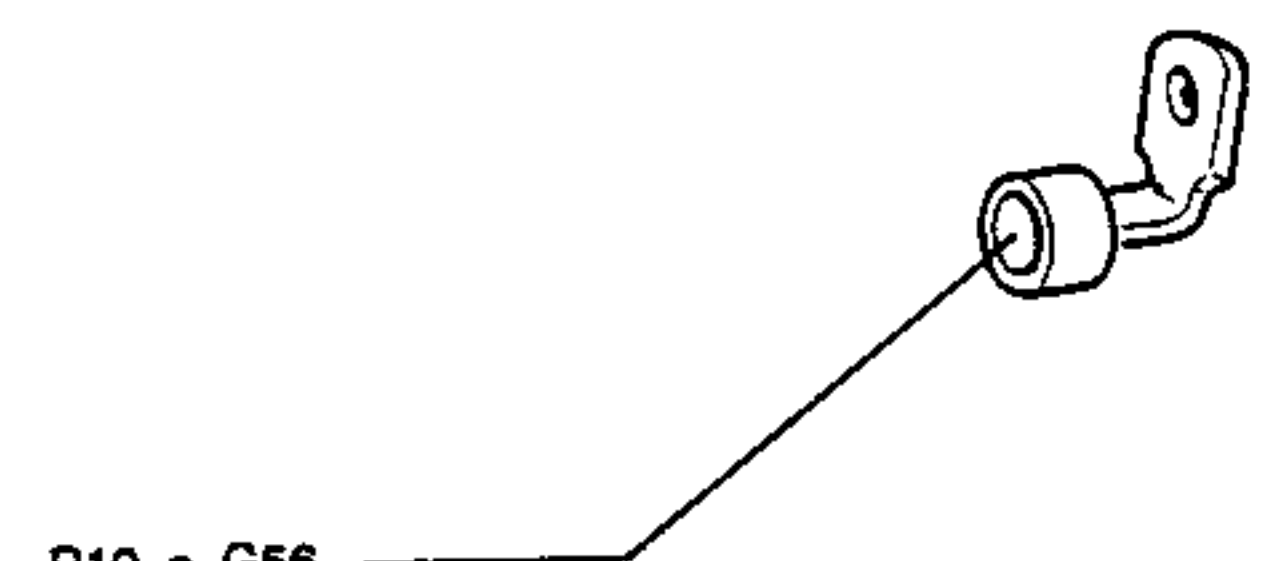
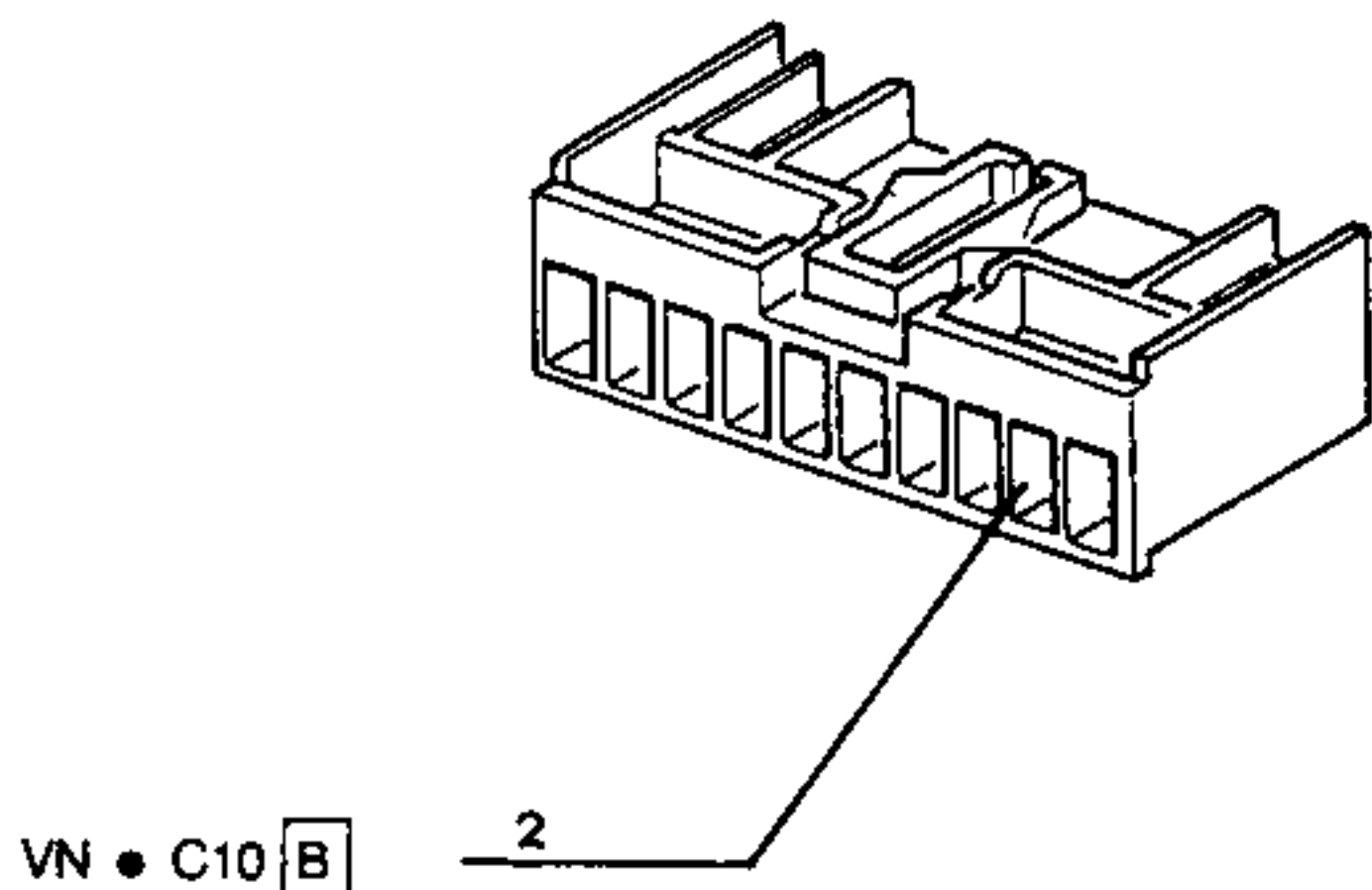
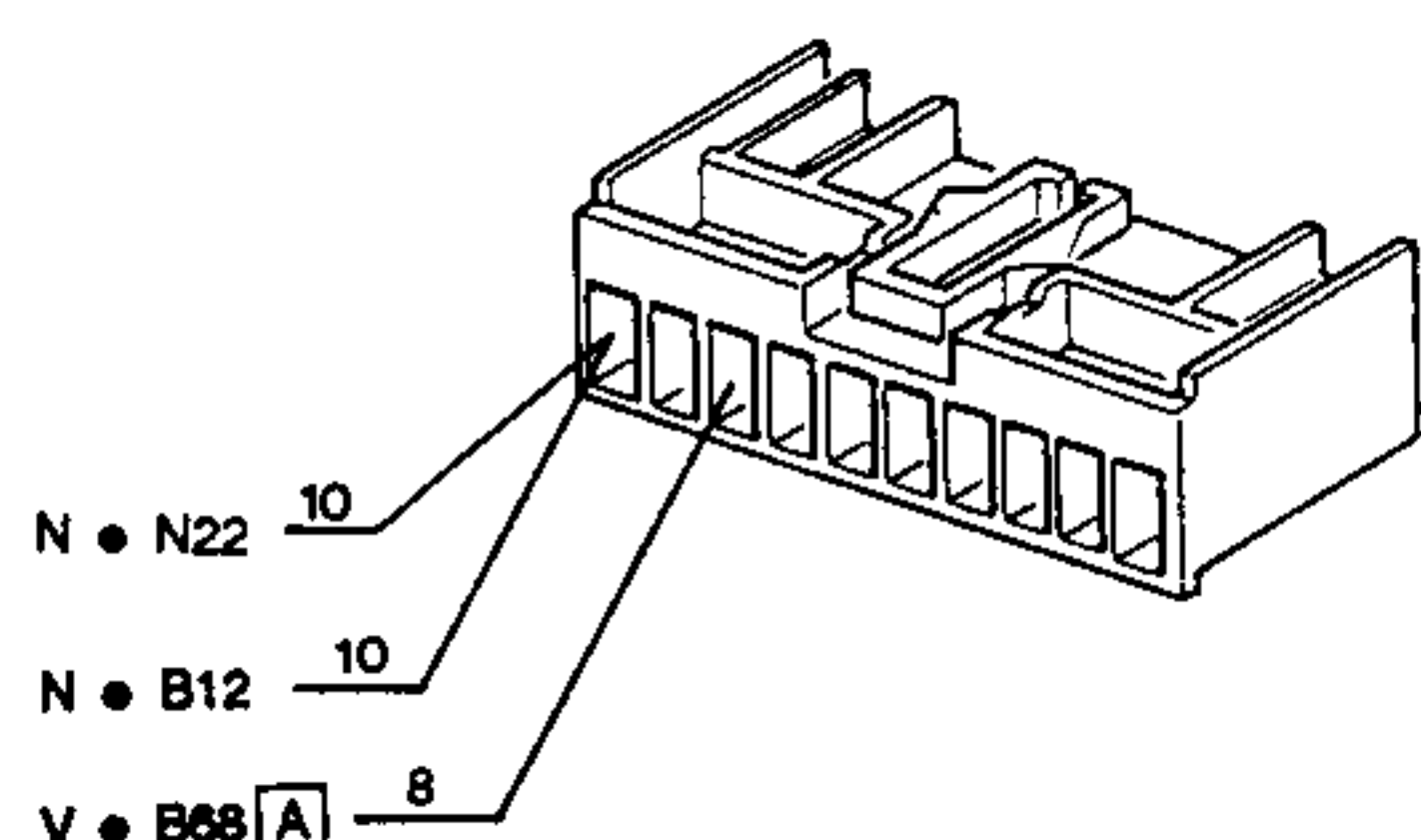
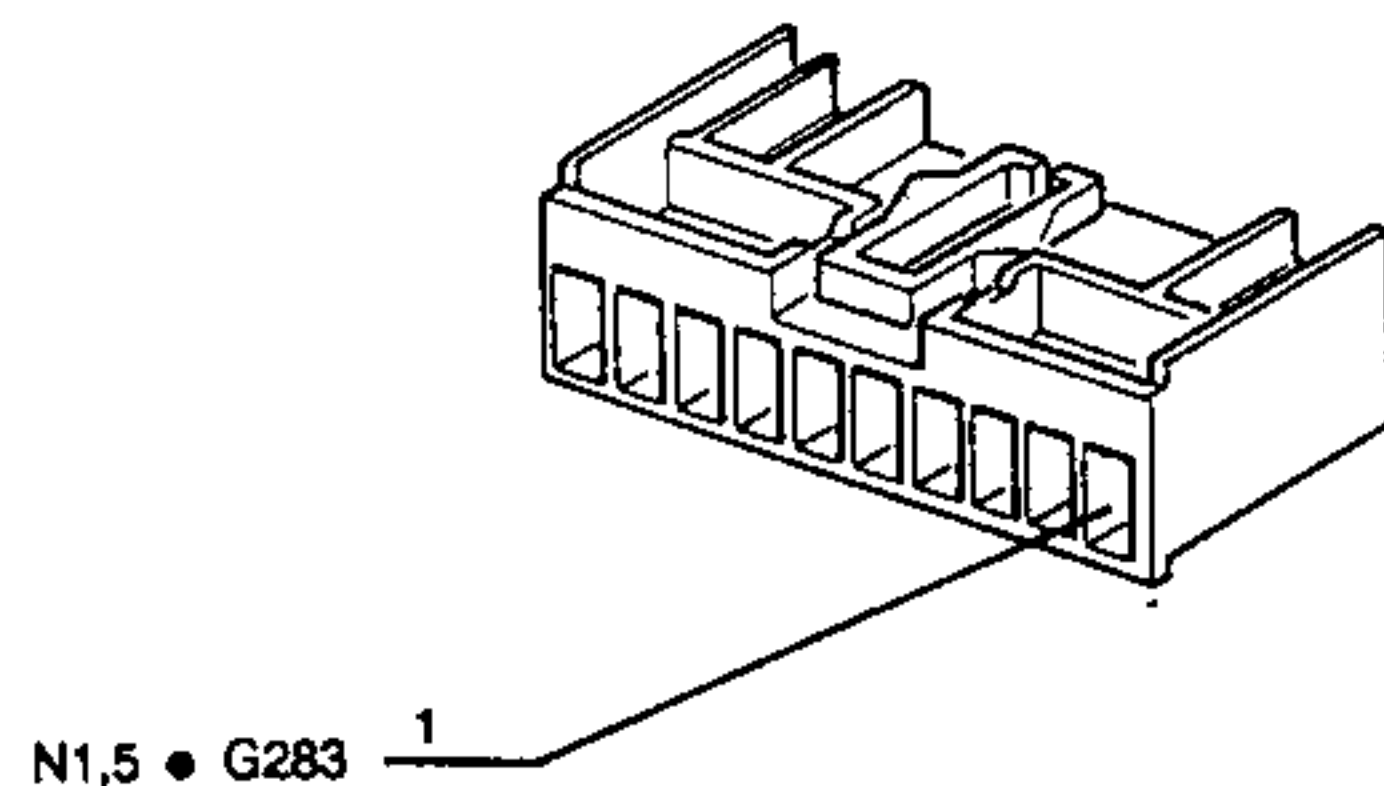
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Hazard warning light control switch	B12	Side lights, flashing, main and dipped beam light control	B68 A
 <p>N • I12 N • G95 F</p>	33.90.008	 <p>V • G95 F R2,5 • G56</p>	33.90.027
Instrument panel	C10 B	Dipped and main beam light (right)	E8
 <p>VN • G95 D N • G269 B0,35 • G270b (*)</p>	33.90.024	 <p>N1,5 • G267 N • E2 V1,5 • G99b</p>	33.90.026

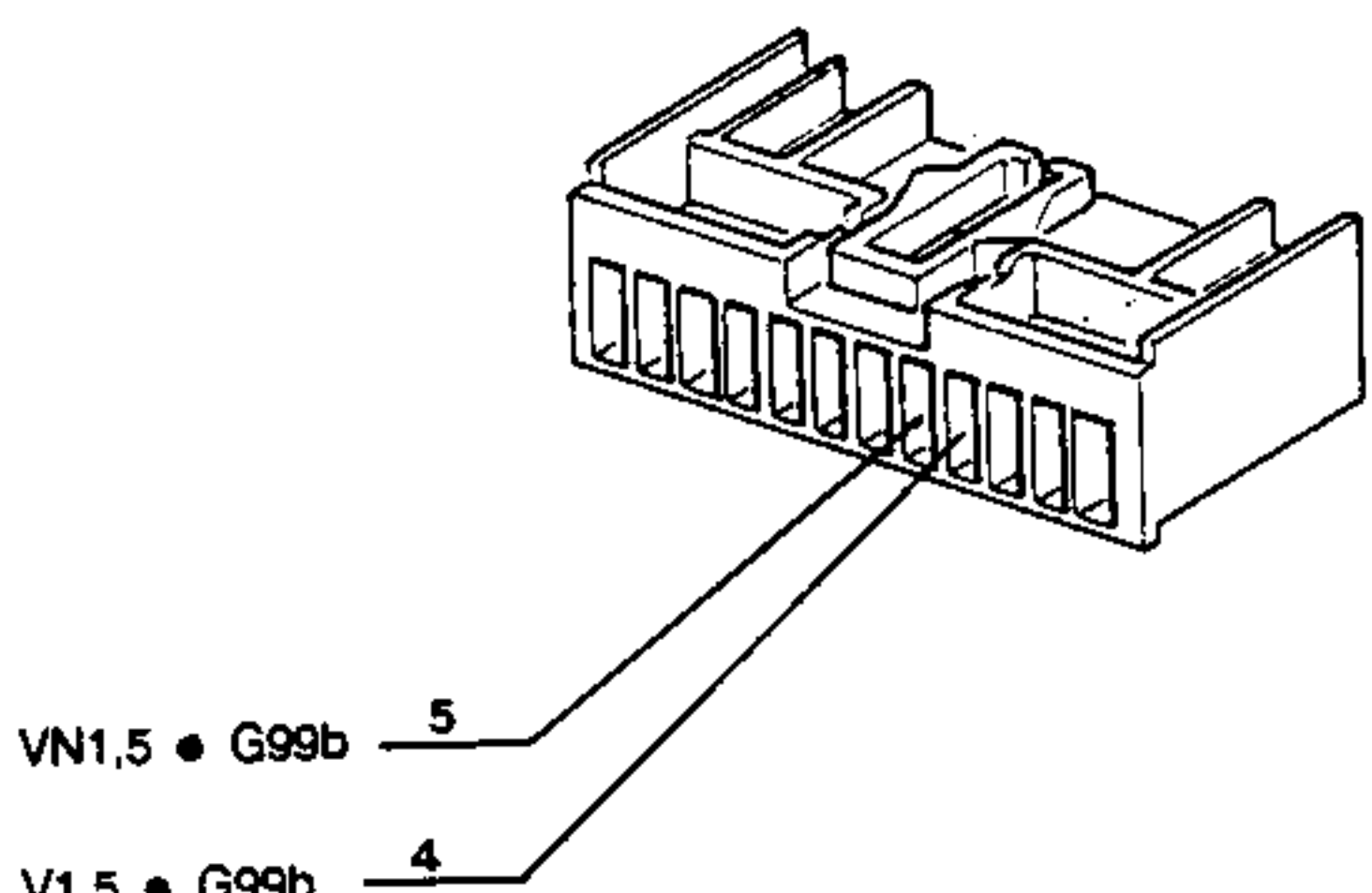
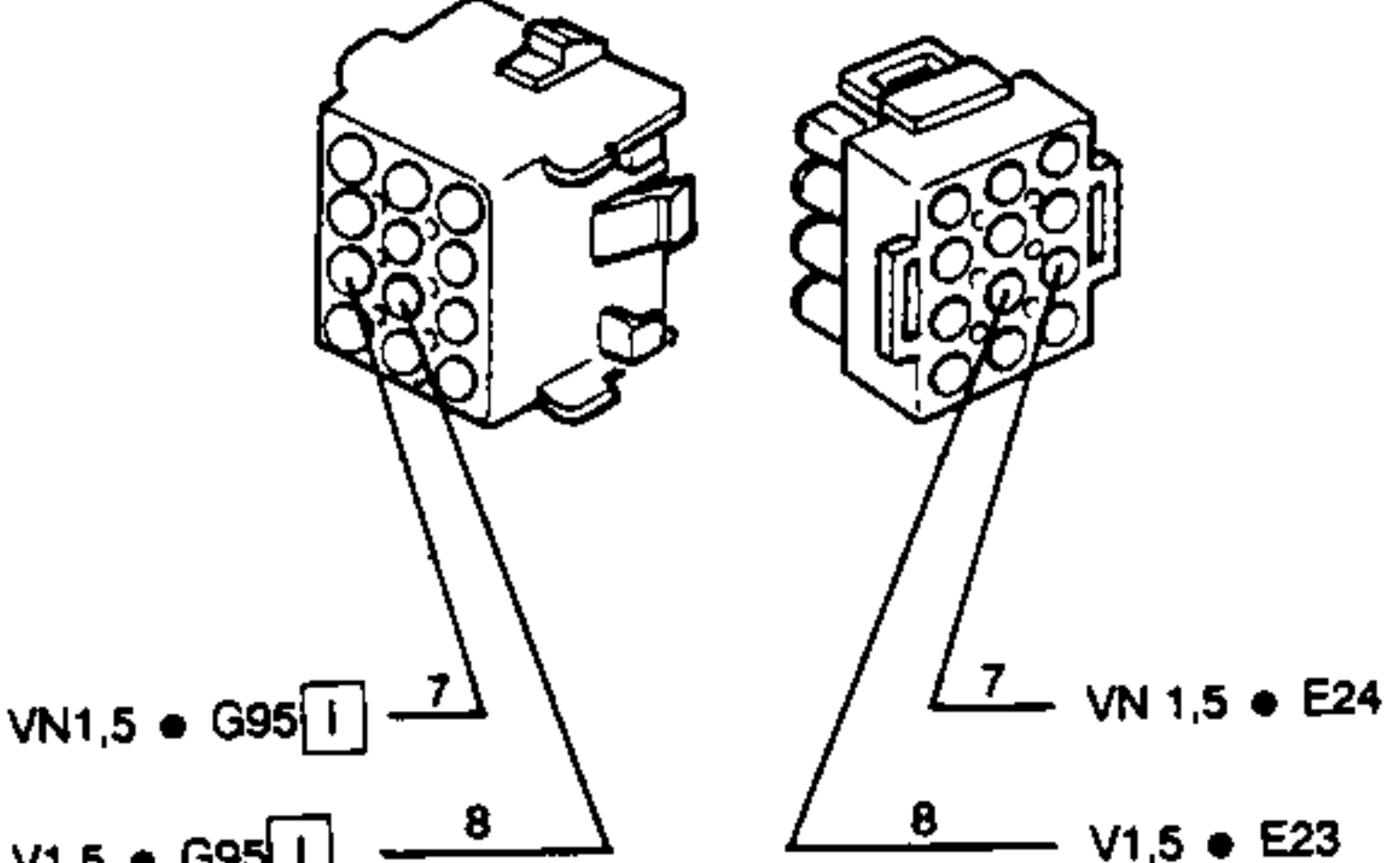

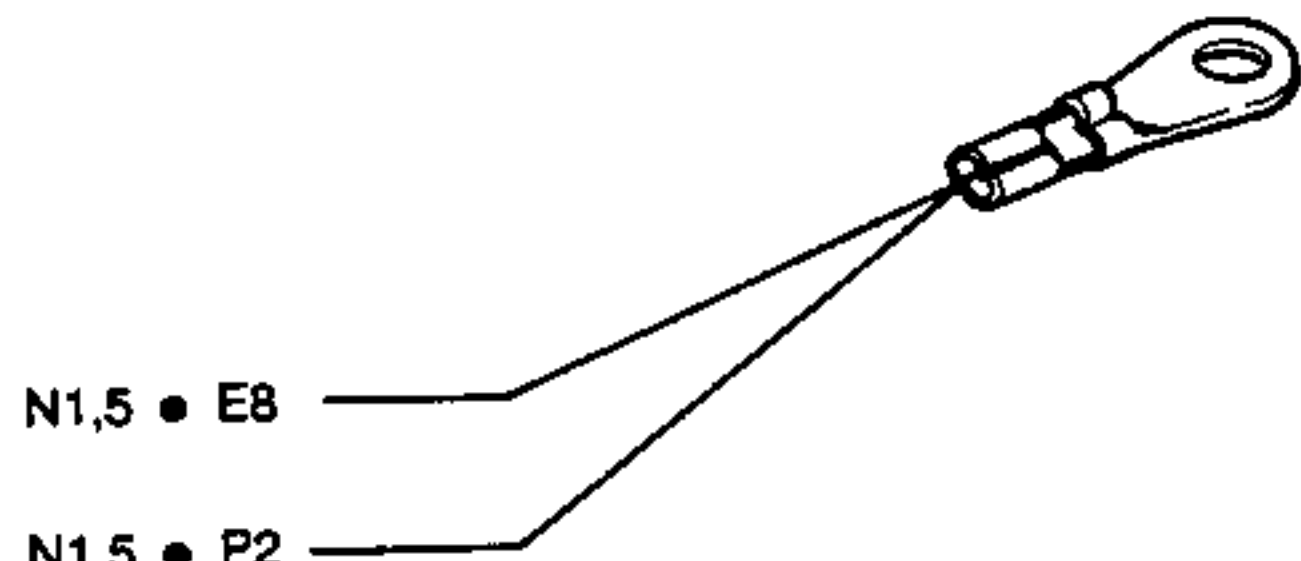
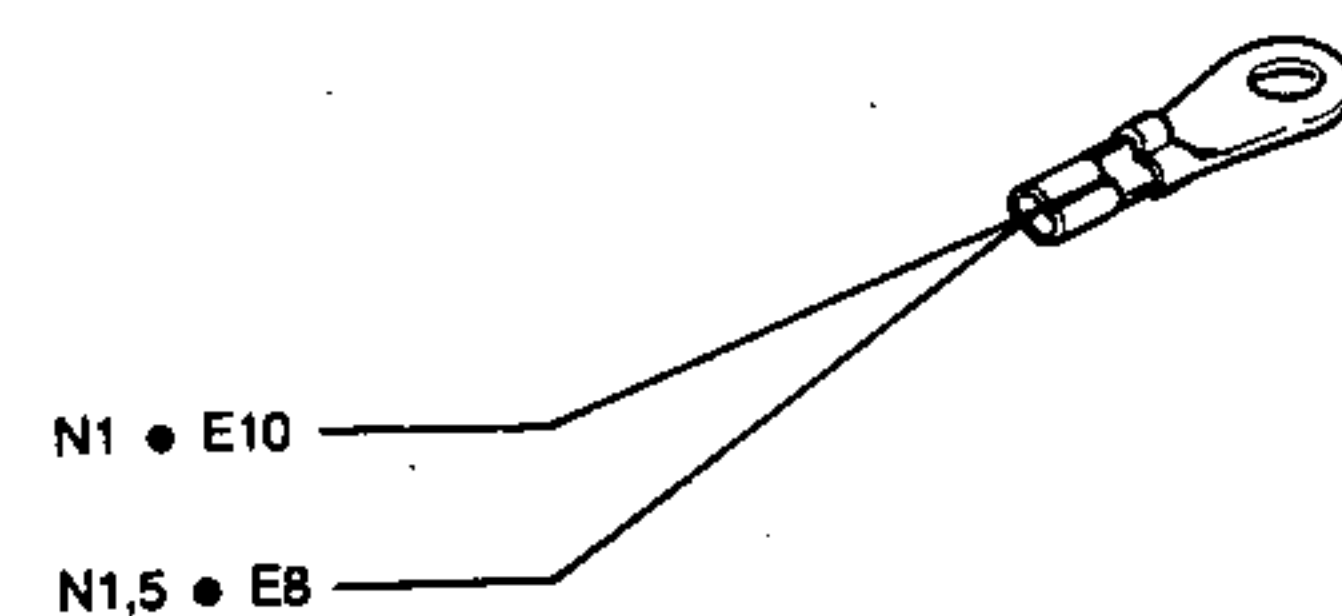
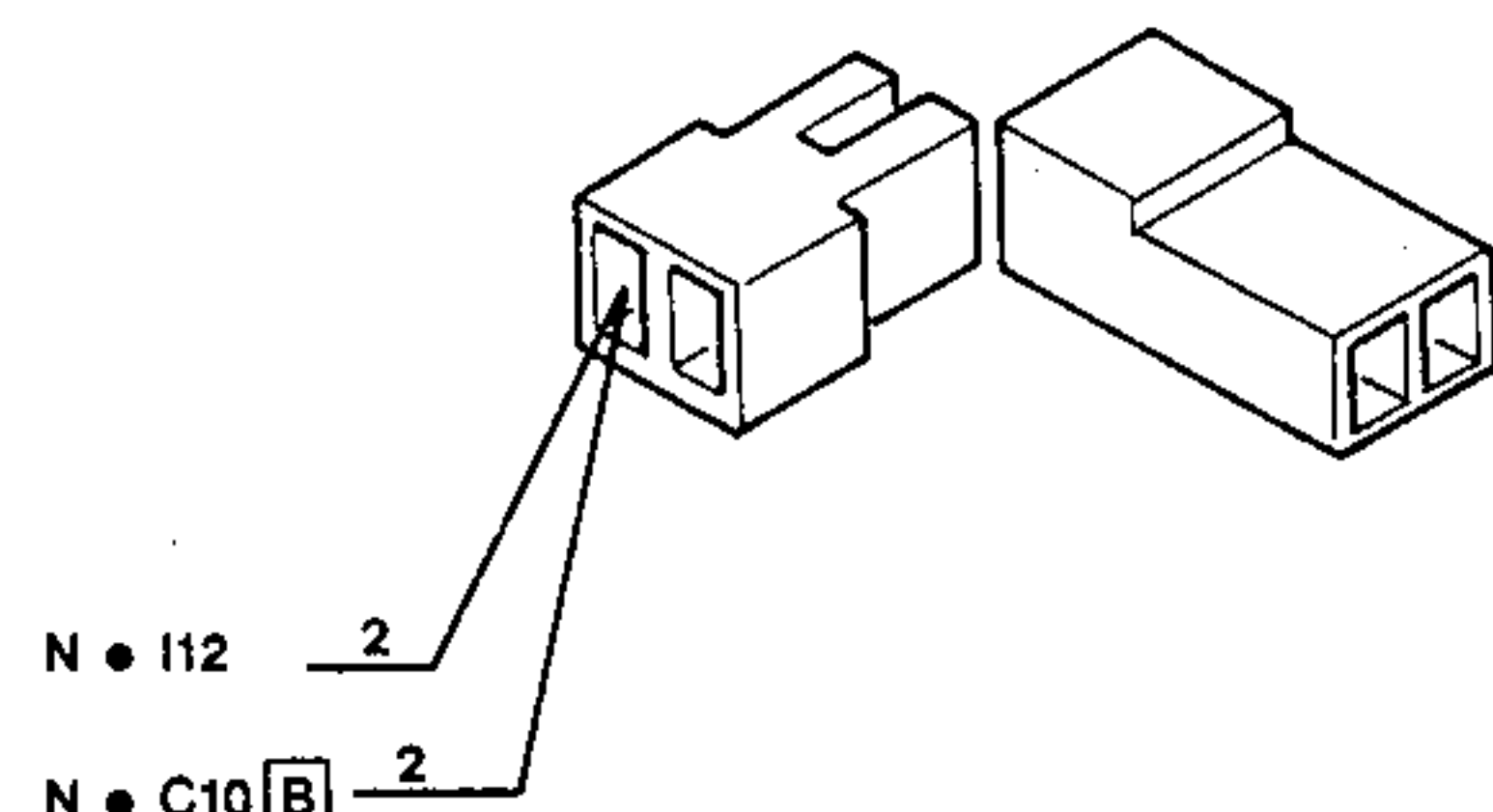
(\*) Specific to 4 x 4 version



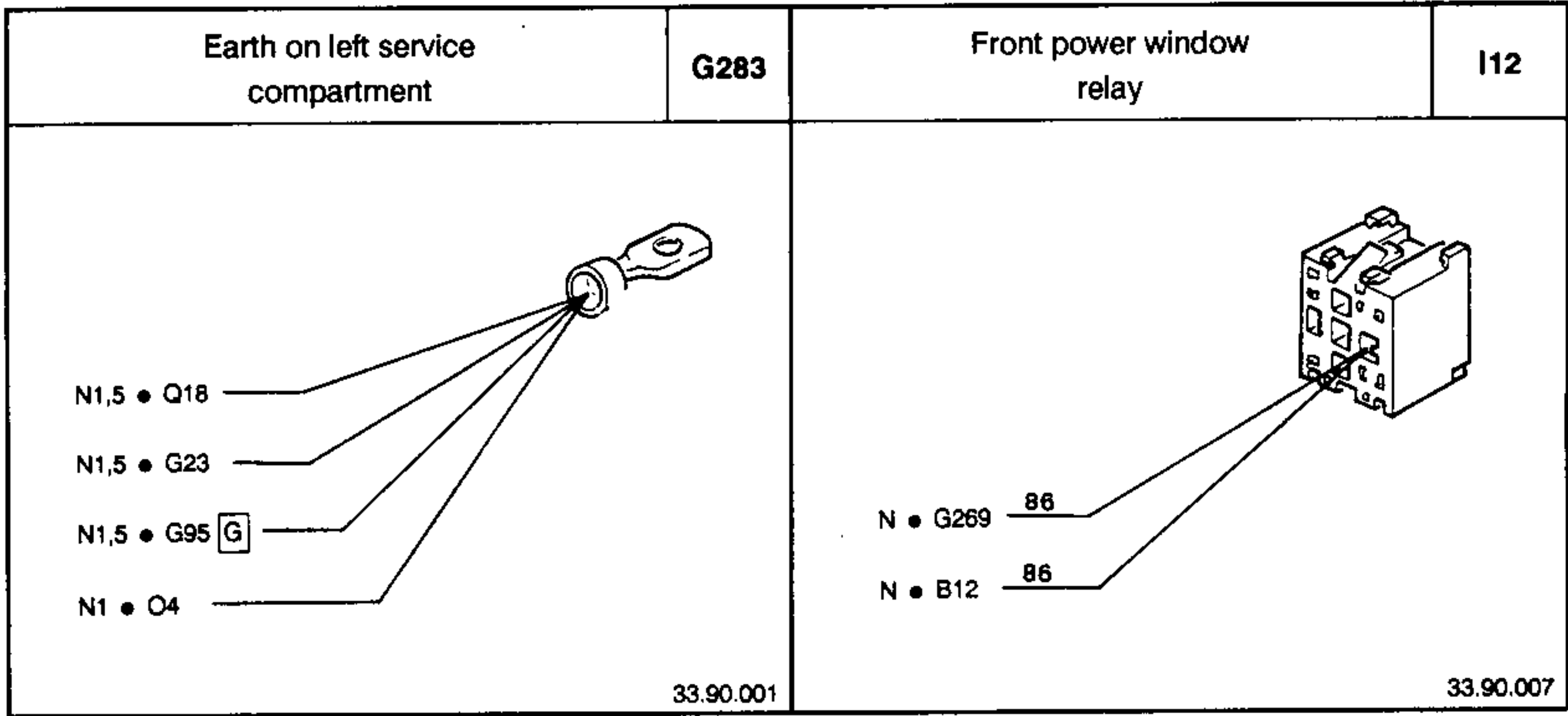
# ELECTRICAL SYSTEM

<p><b>Dipped and main beam light (left)</b></p> <p style="text-align: right;"><b>E8</b></p>  <p style="text-align: right;">33.90.026</p>	<p><b>Branch terminal board</b></p> <p style="text-align: right;"><b>G56</b></p>  <p style="text-align: right;">33.90.011</p>
<p><b>Central fusebox (+)</b></p> <p style="text-align: right;"><b>G95</b></p>  <p style="text-align: right;">33.90.006</p>	<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 D</b></p>  <p style="text-align: right;">33.90.005</p>
<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 F</b></p>  <p style="text-align: right;">33.90.005</p>	<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 G</b></p>  <p style="text-align: right;">33.90.005</p>

# ELECTRICAL SYSTEM

<p><b>Central fusebox</b></p>	<p><b>G95 I</b></p>	<p><b>Connector for engine dashboard B</b></p>	<p><b>G99 b</b></p>
			
<p>33.90.004</p>		<p>33.90.016</p>	
<p><b>Central service compartment earth</b></p>	<p><b>G143</b></p>	<p><b>Earth on cylinder block (from right services)</b></p>	<p><b>G267</b></p>
			
<p>33.90.001</p>		<p>33.90.014</p>	
<p><b>Earth on cylinder block (from left services)</b></p>	<p><b>G267</b></p>	<p><b>Glove compartment lamp connection</b></p>	<p><b>G269</b></p>
			
<p>33.90.014</p>		<p>33.90.013</p>	

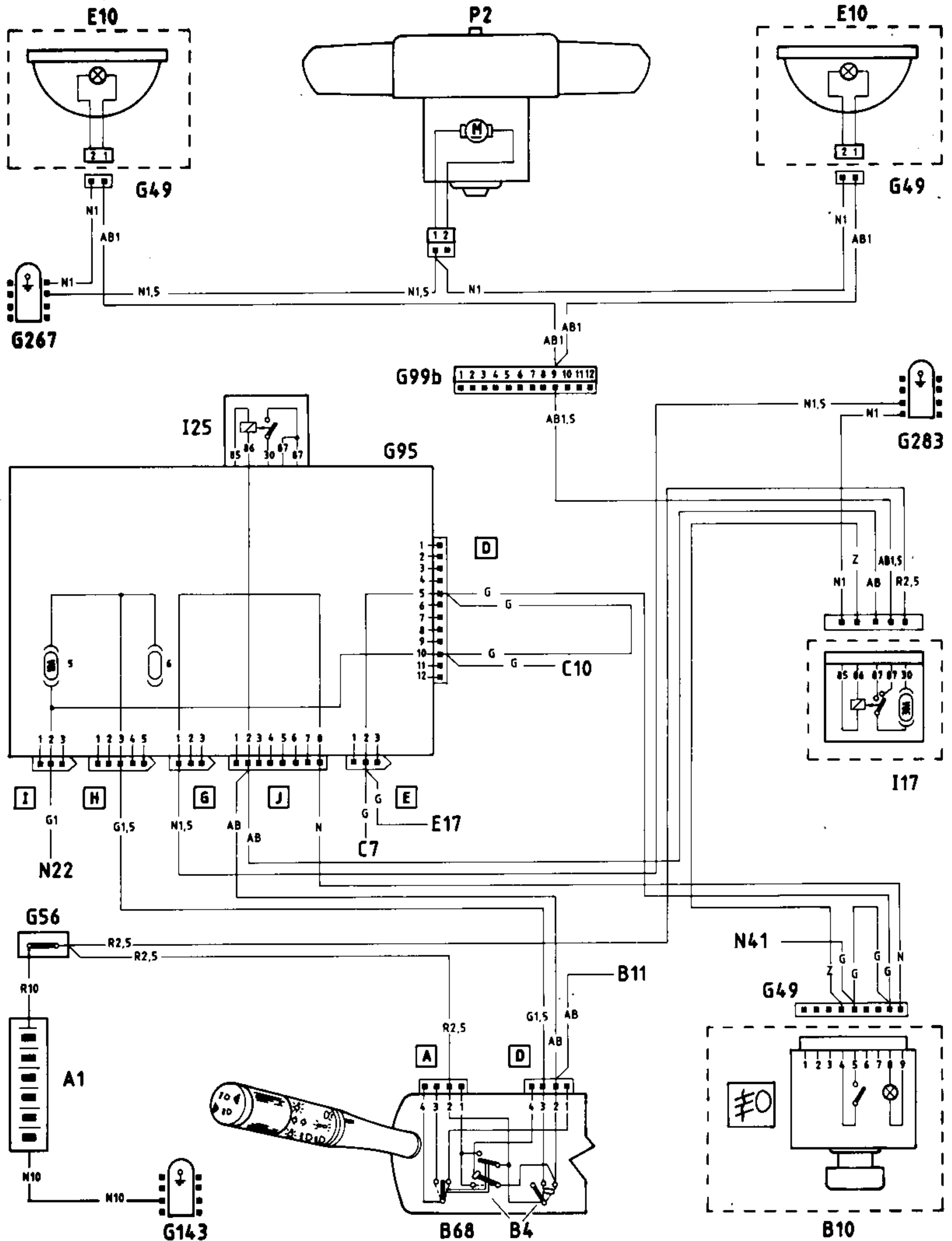
# ELECTRICAL SYSTEM



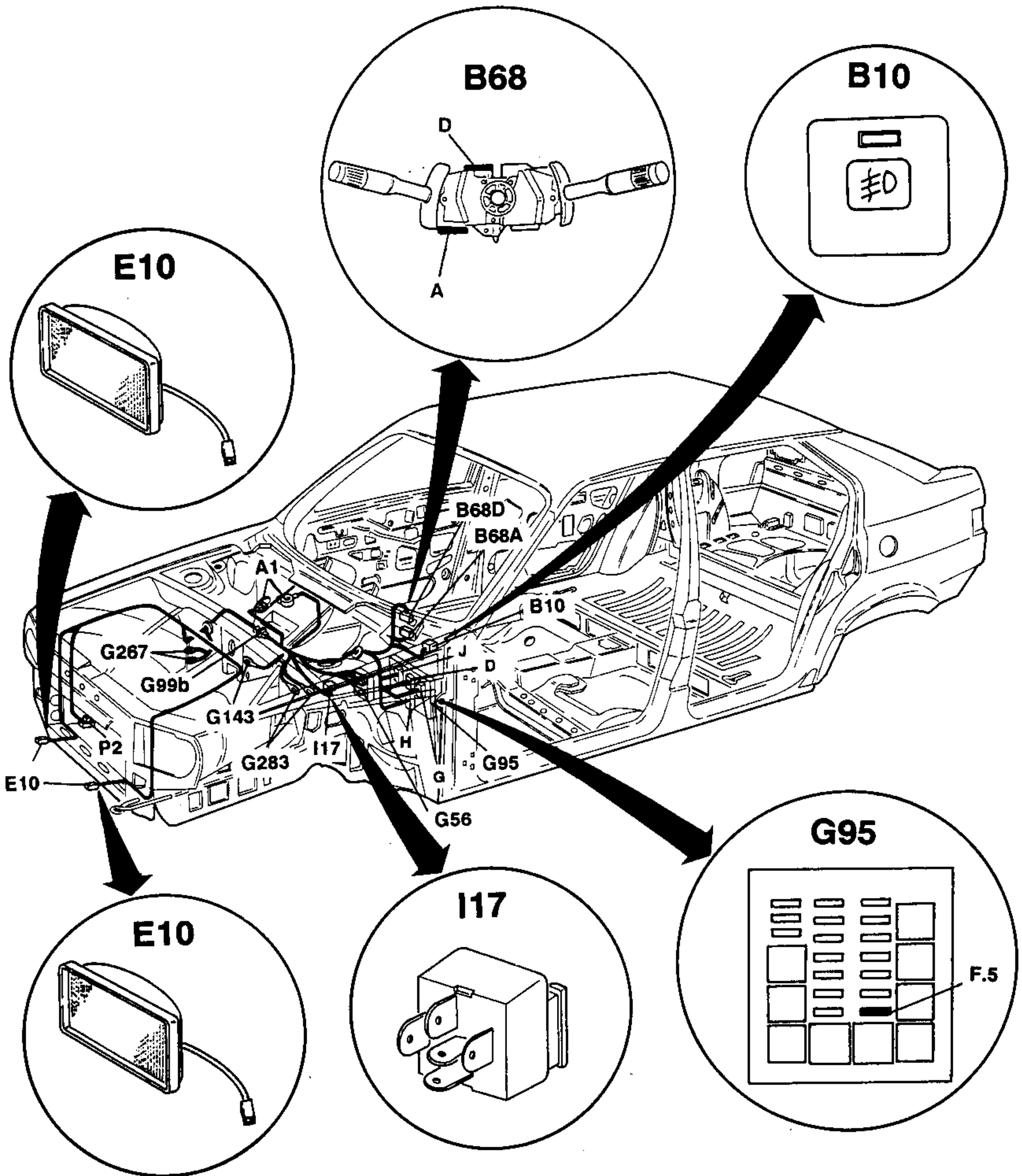
# ELECTRICAL SYSTEM

## FOG LAMP

### Wiring diagram

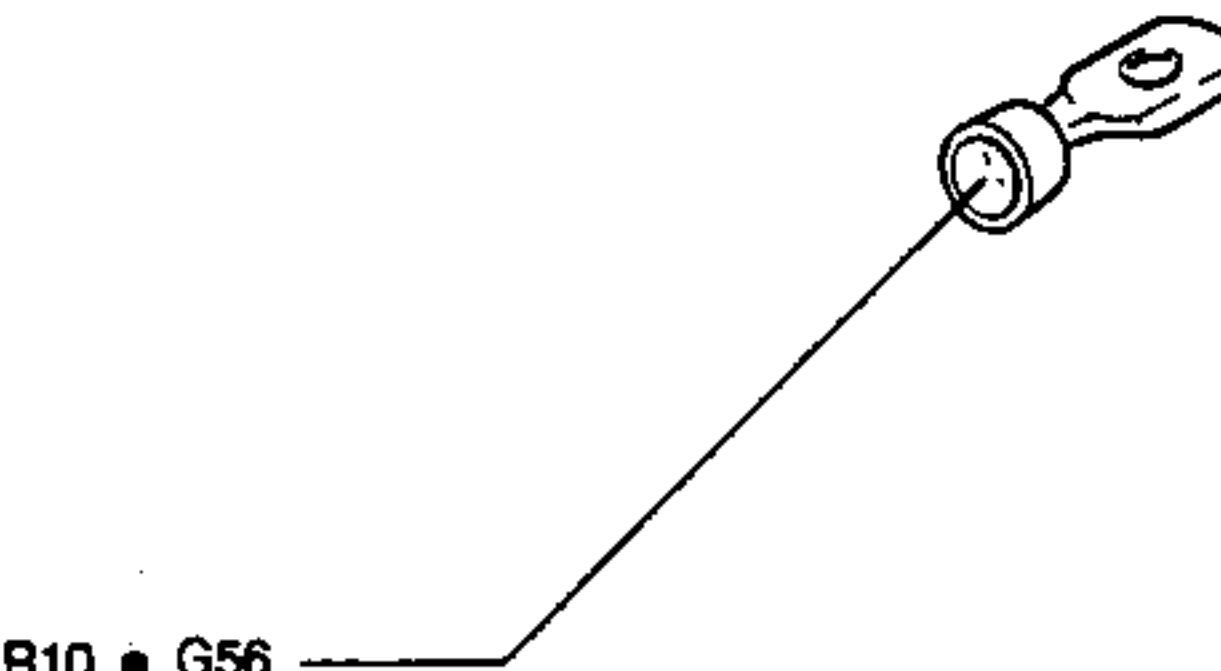
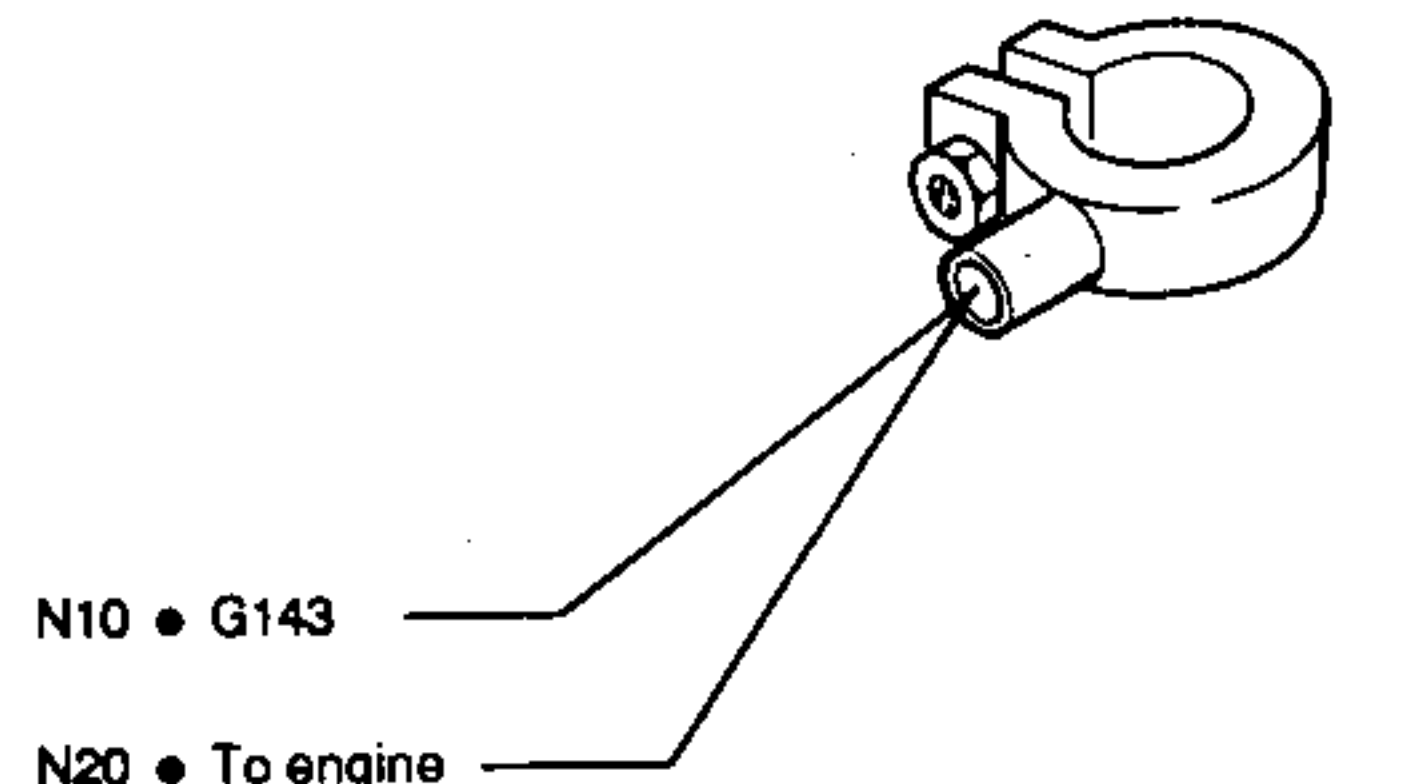
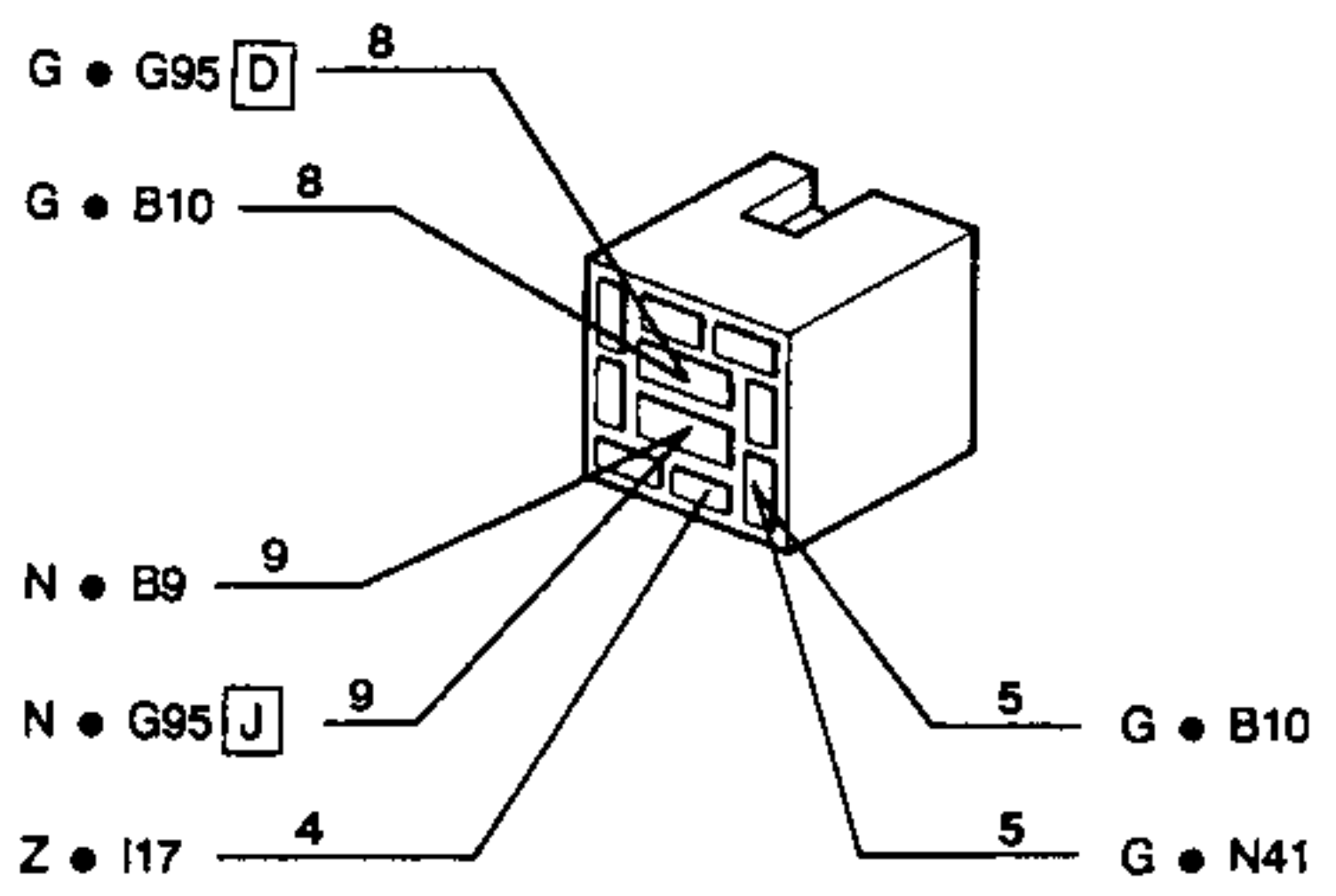
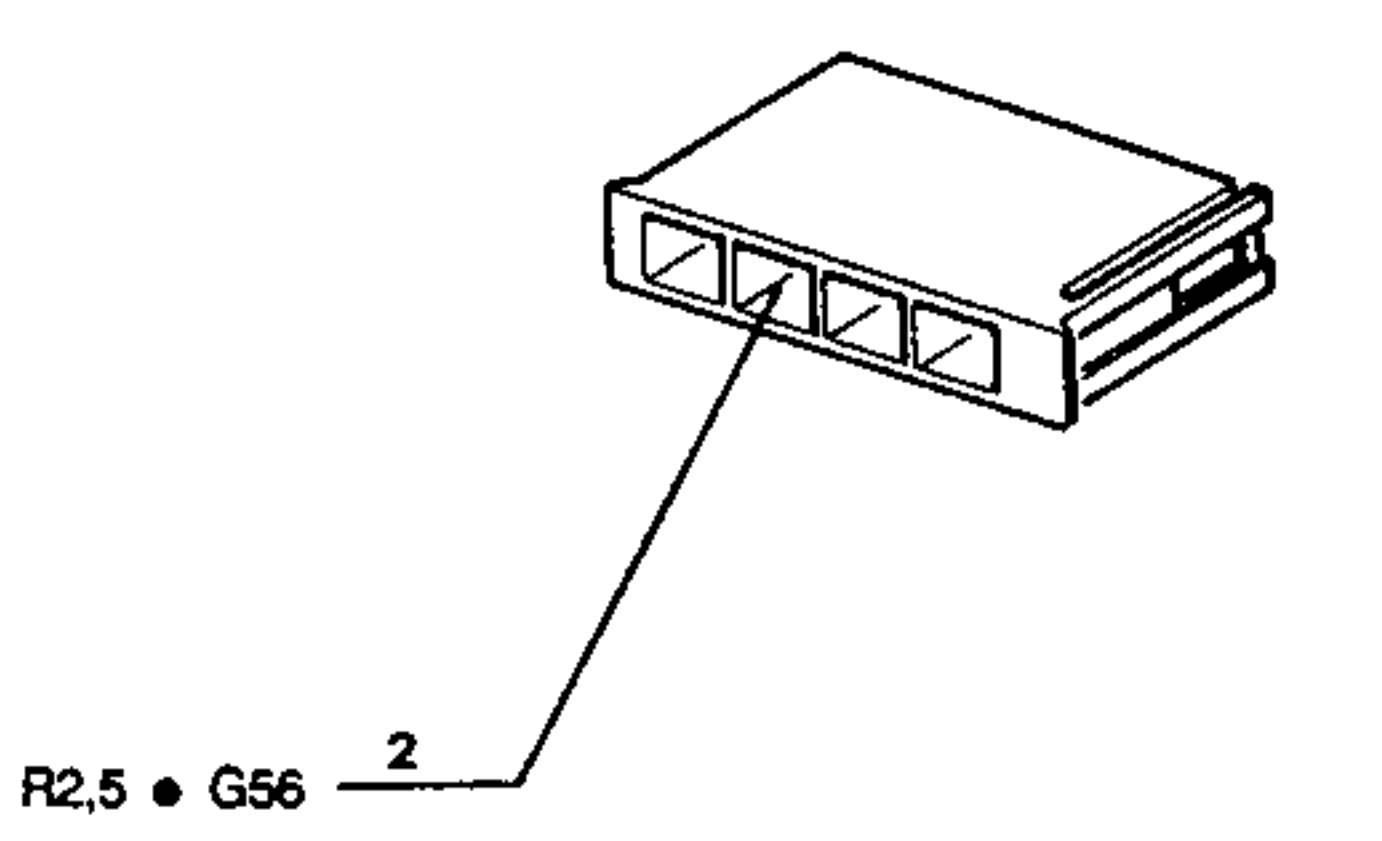
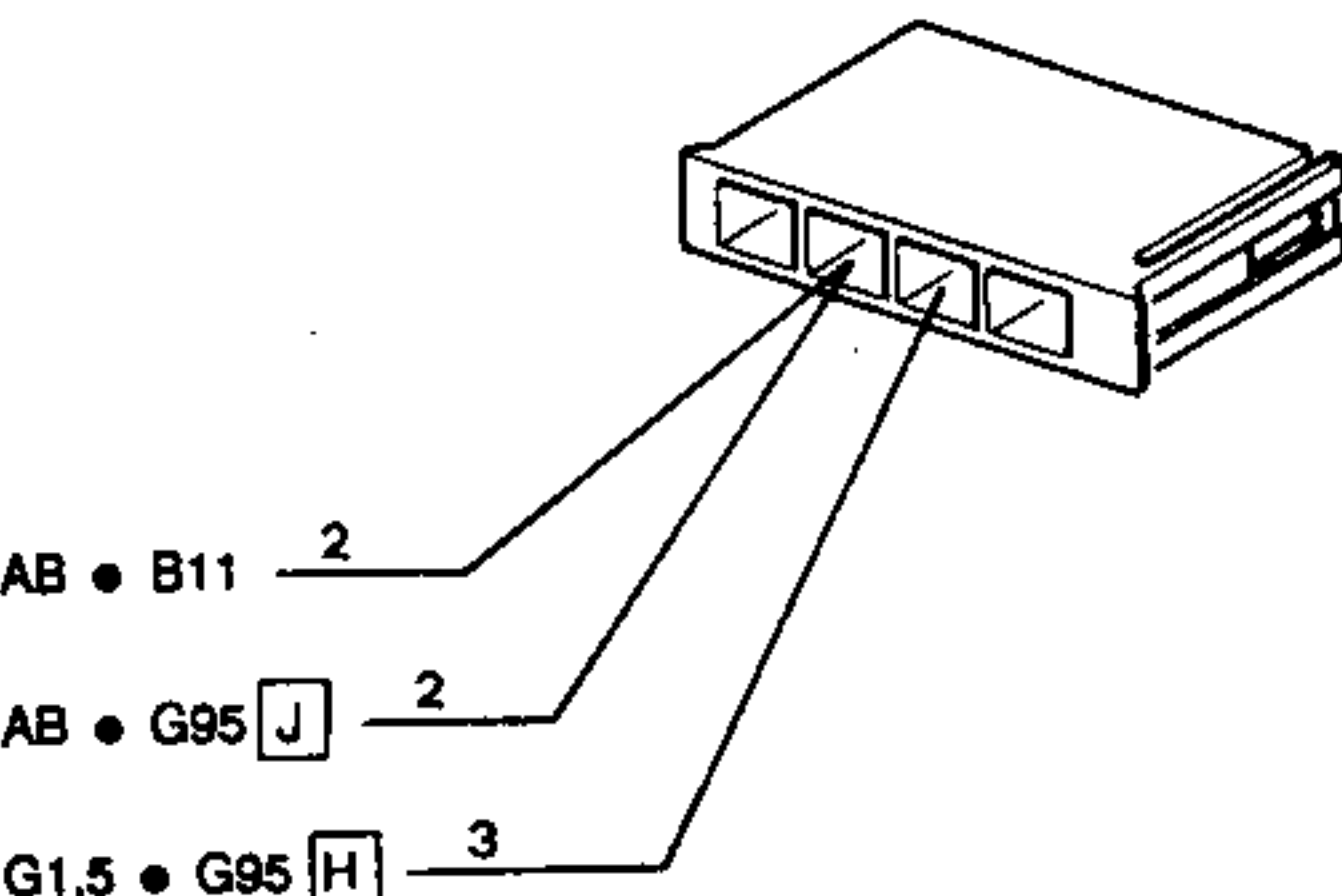
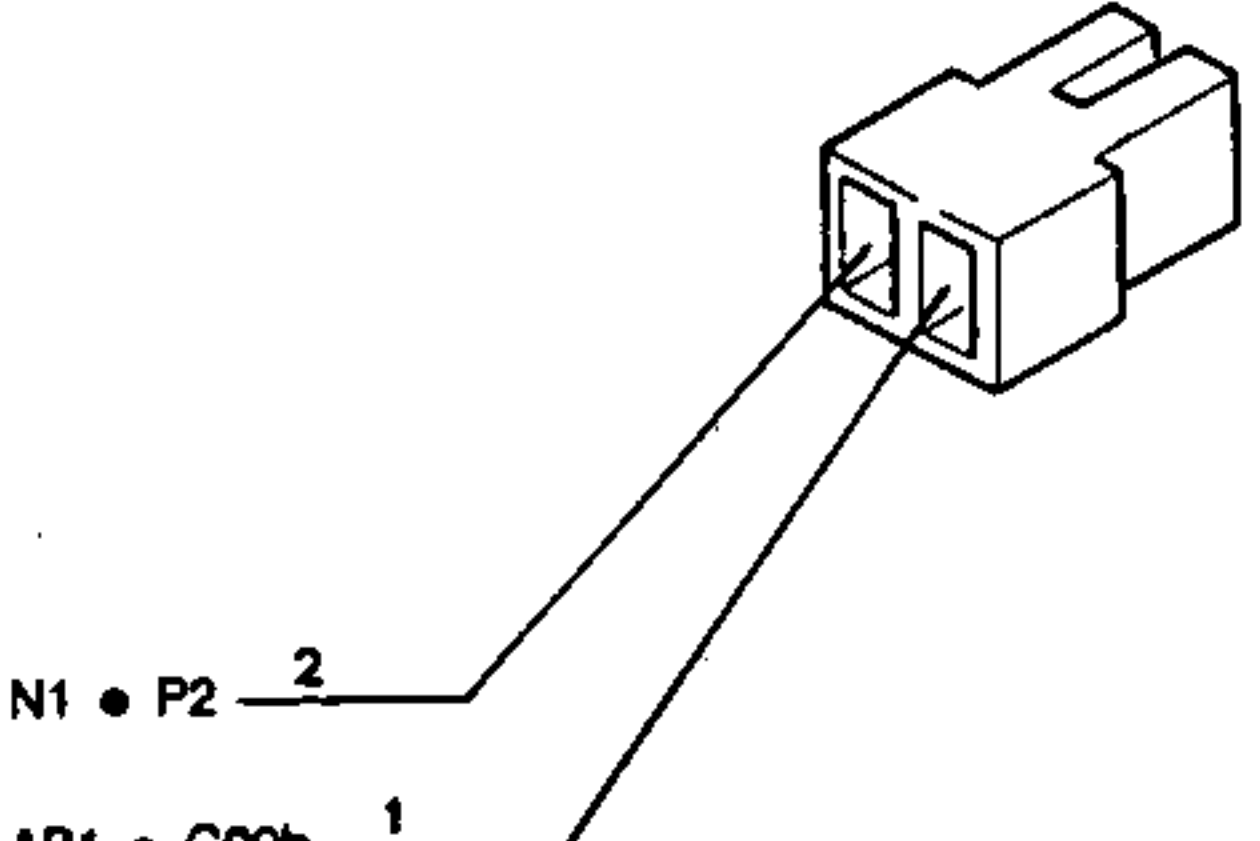


Wiring

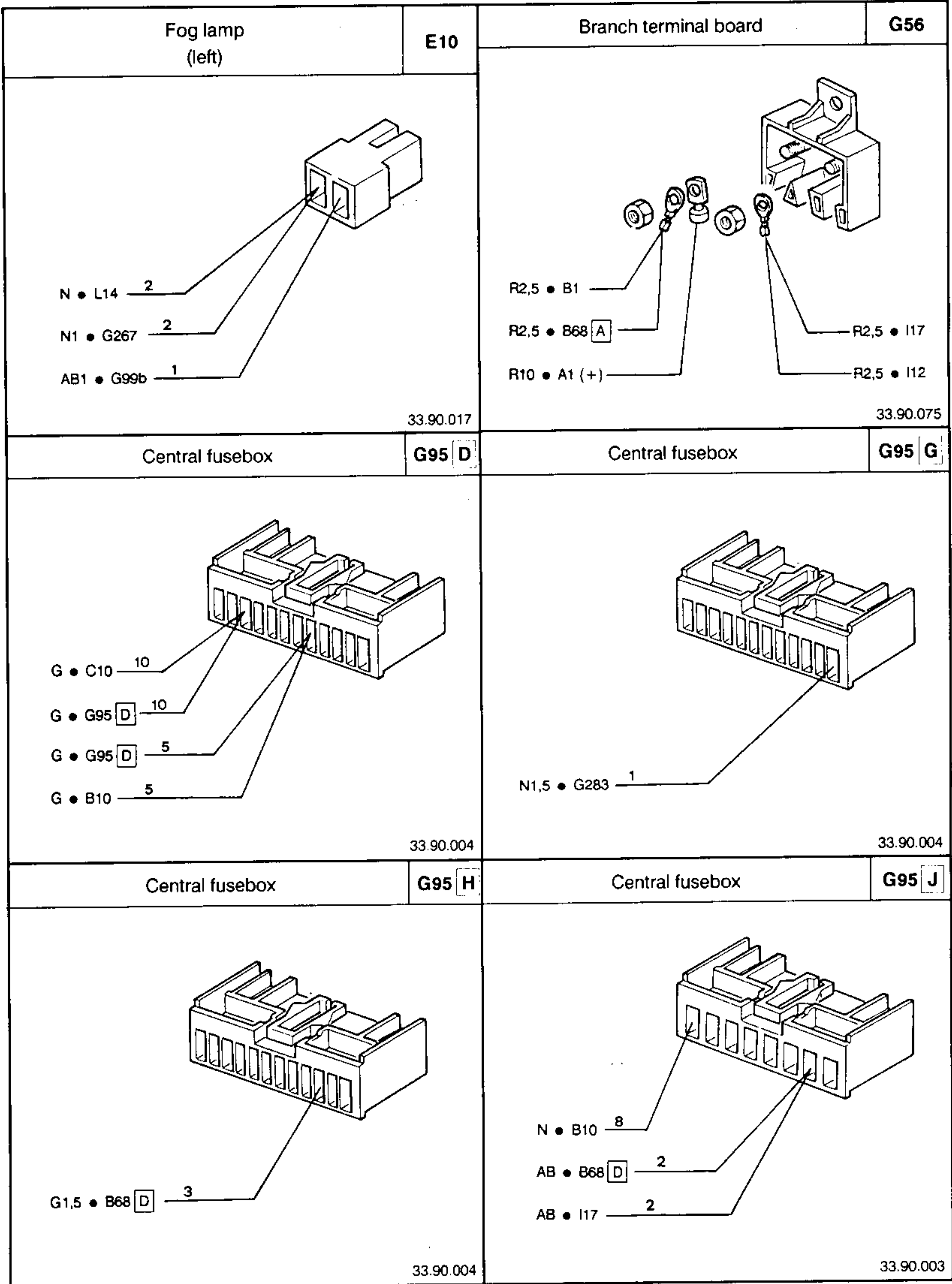


# ELECTRICAL SYSTEM

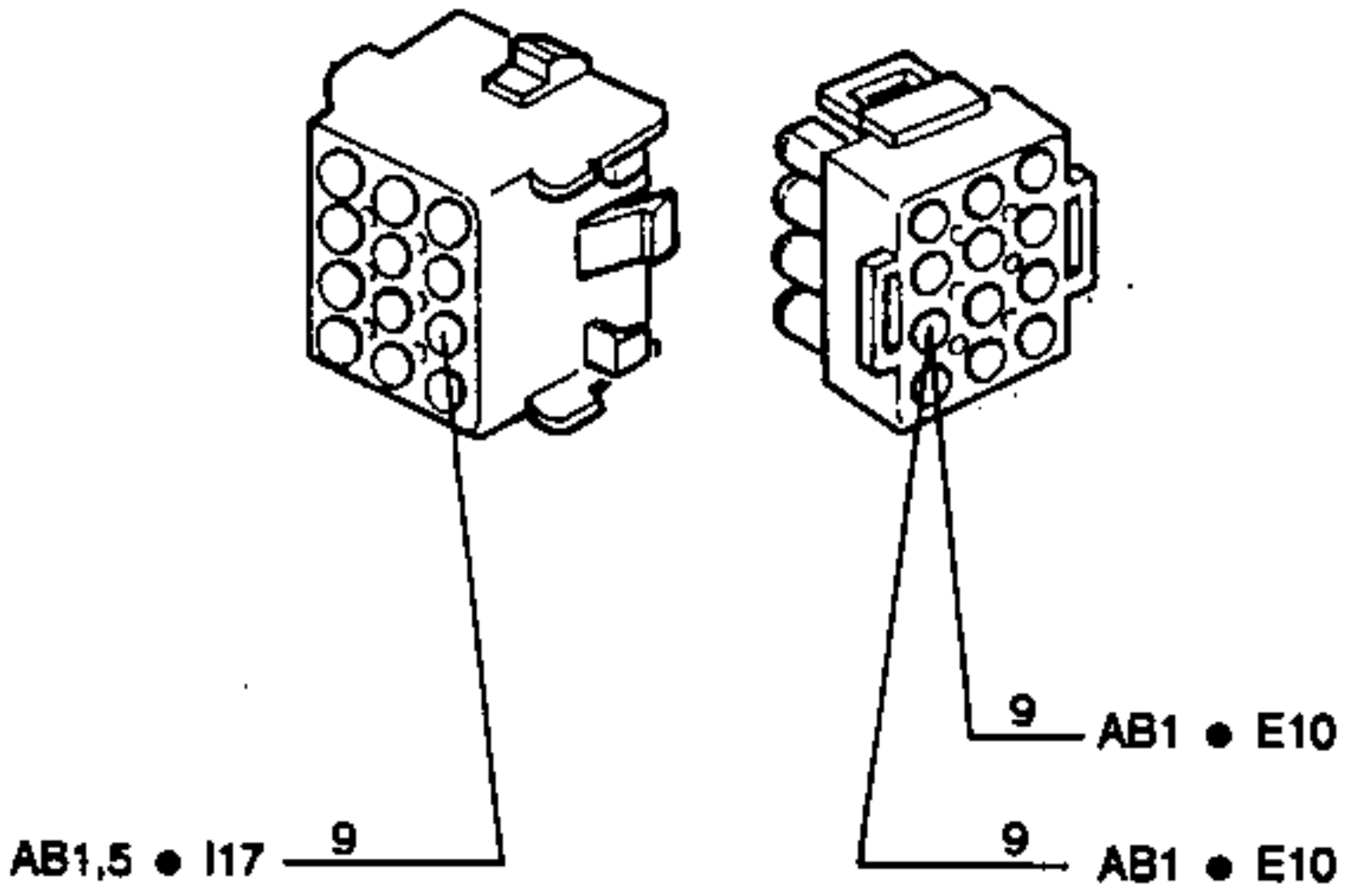
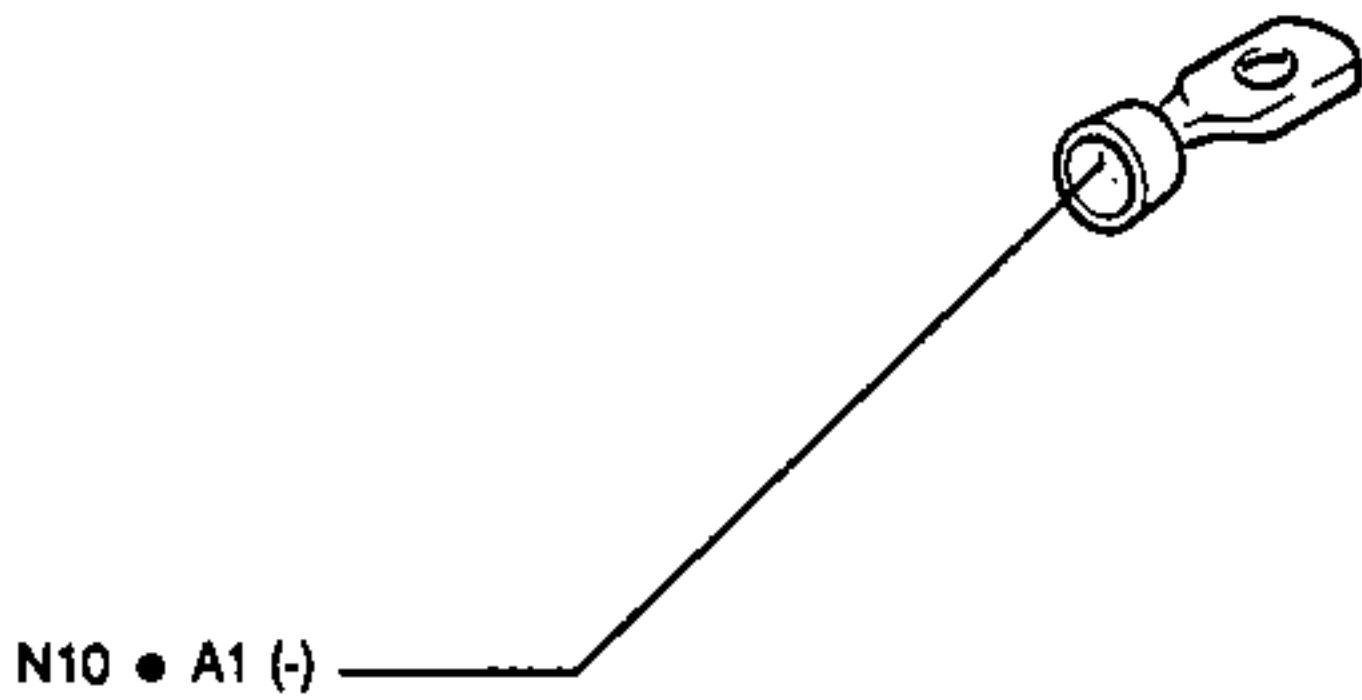
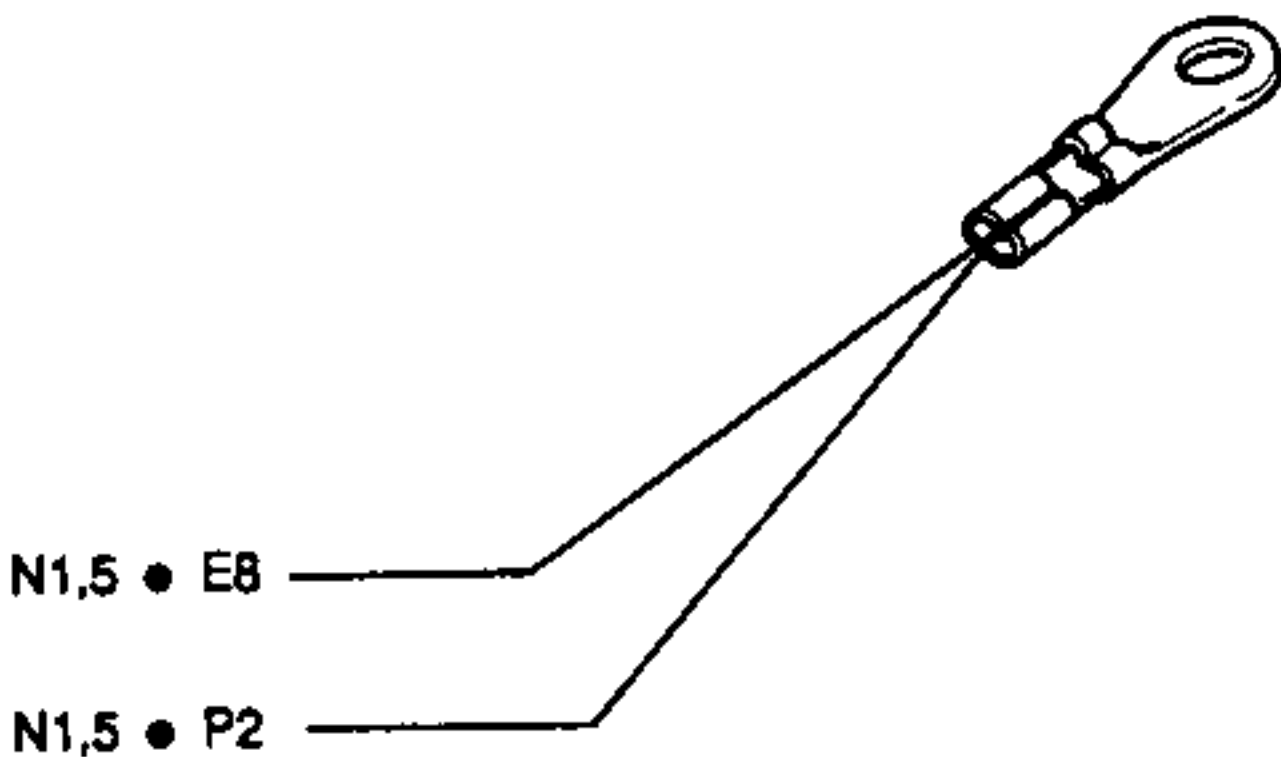
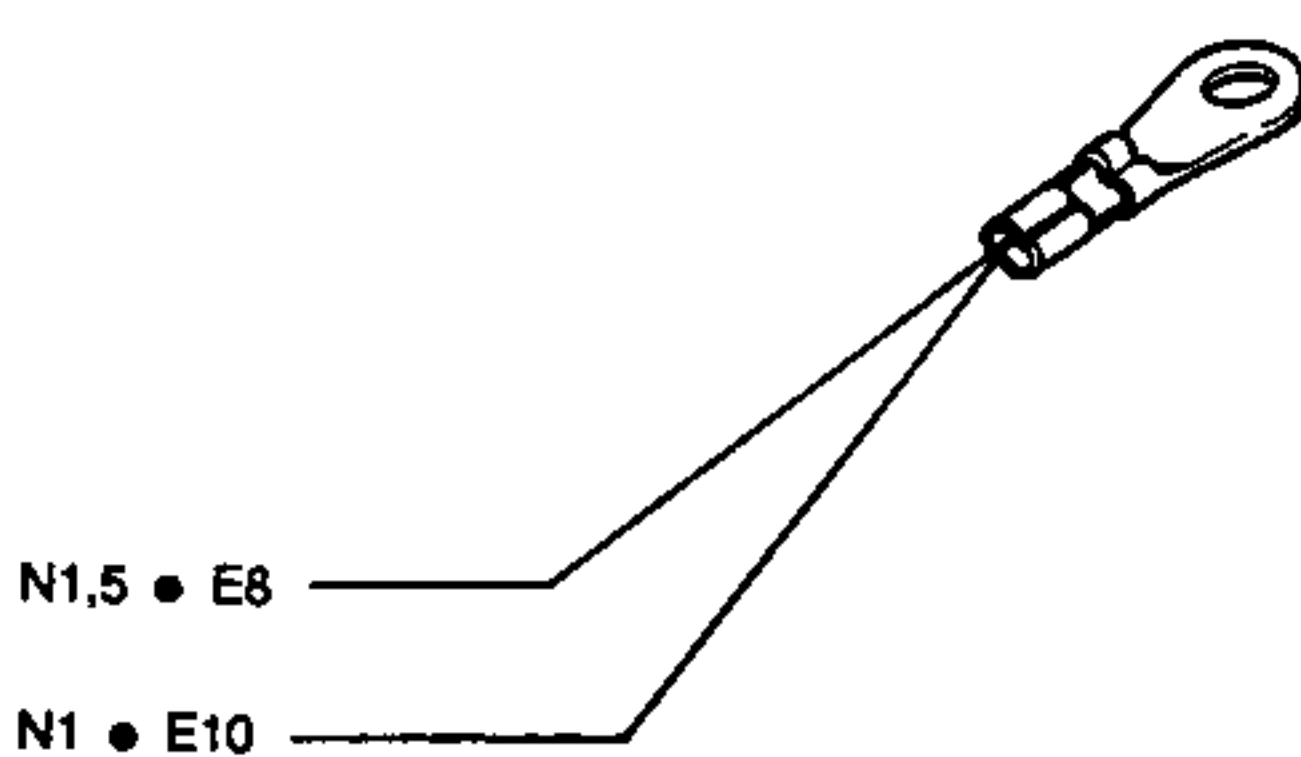
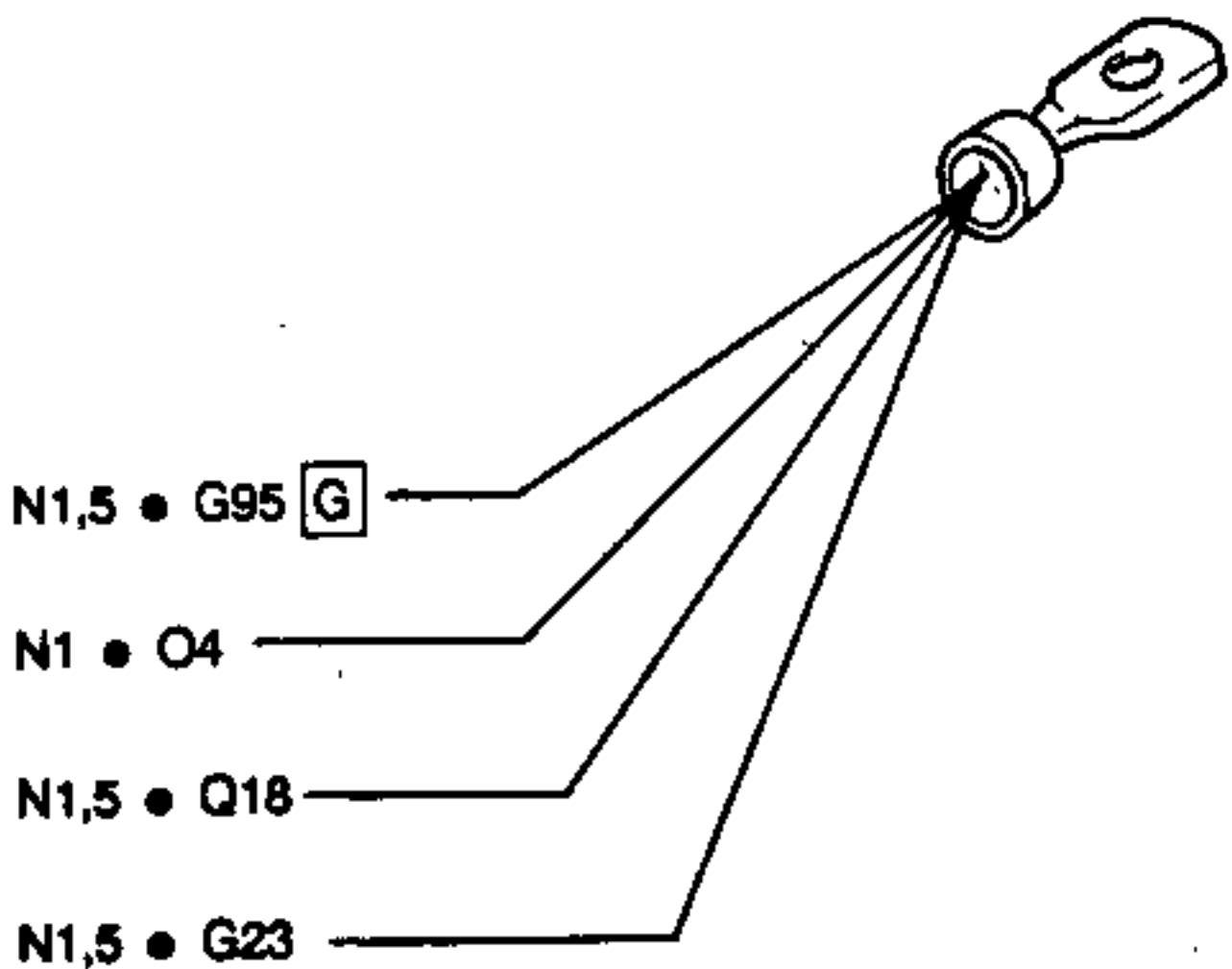
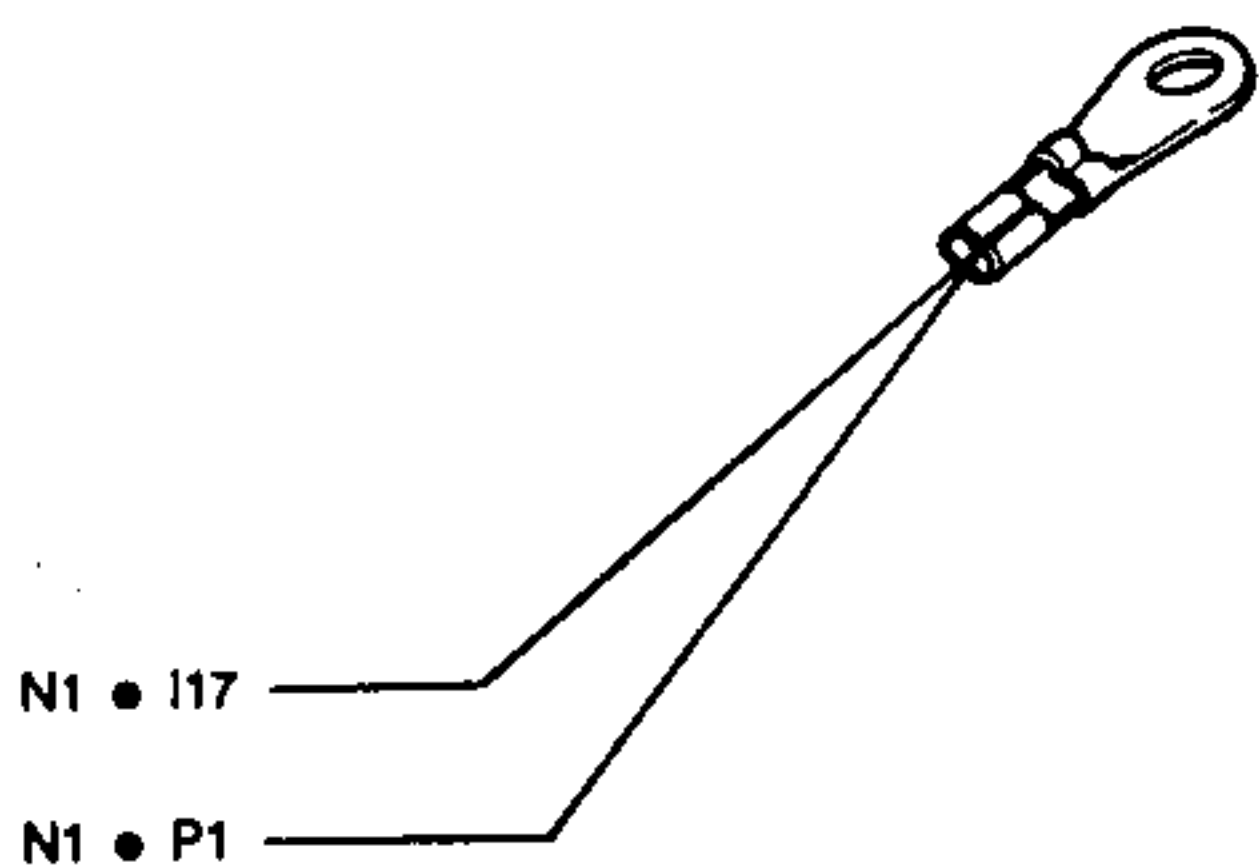
## Connectors

<b>Battery (+)</b>	<b>A1</b>	<b>Battery (-)</b>	<b>A1</b>
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
	33.90.001		33.90.002
<b>Fog lamp control switch</b>	<b>B10</b>	<b>Turn signal switch unit</b>	<b>B68 A</b>
 <p>G • G95 [D] 8 G • B10 8 N • B9 9 N • G95 [J] 9 Z • I17 4 5 G • B10 5 G • N41</p>		 <p>R2,5 • G56 2</p>	
	33.90.008		33.90.027
<b>Turn signal switch unit</b>	<b>B68 D</b>	<b>Fog lamp (right)</b>	<b>E10</b>
 <p>AB • B11 2 AB • G95 [J] 2 G1,5 • G95 [H] 3</p>		 <p>N1 • P2 2 AB1 • G99b 1</p>	
	33.90.027		33.90.017

ELECTRICAL SYSTEM

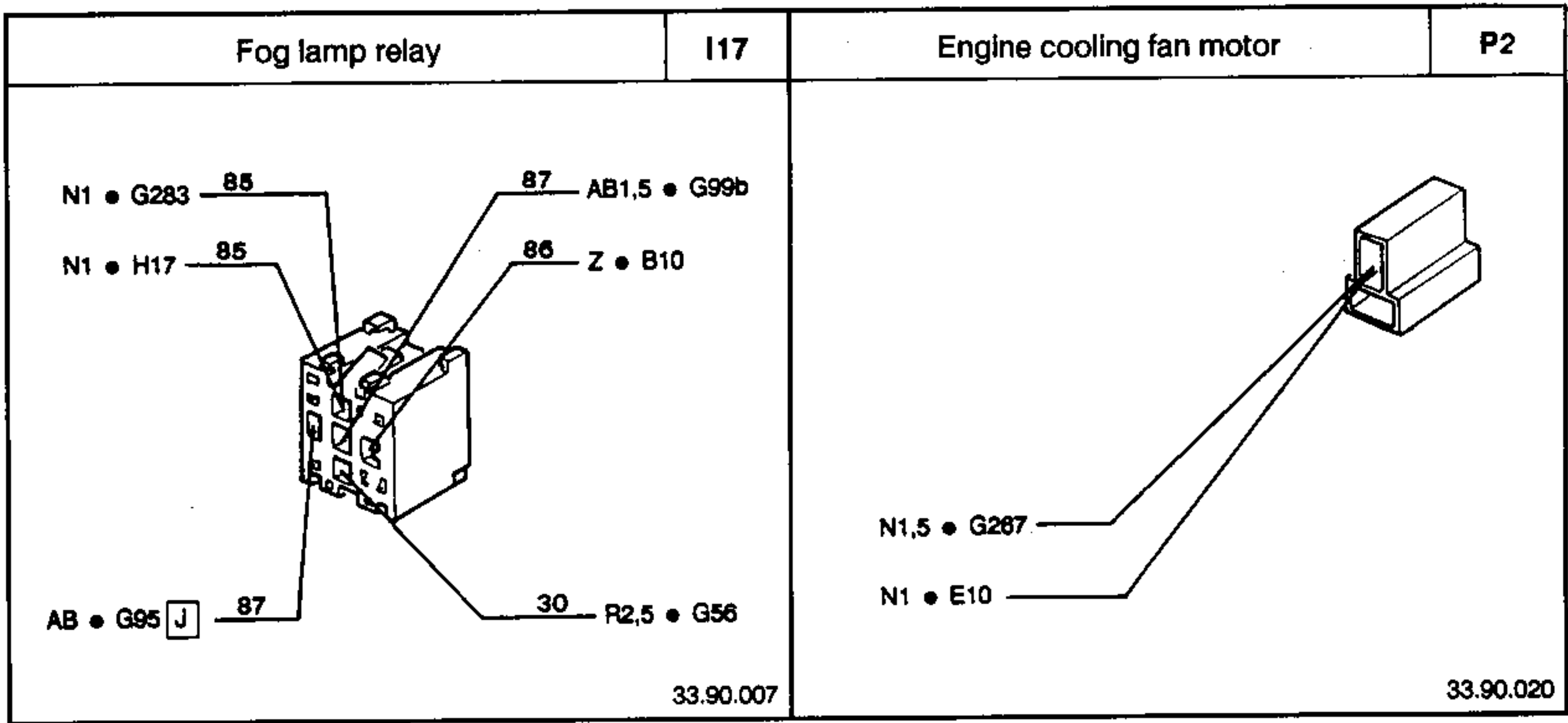


**ELECTRICAL SYSTEM**

<p>Connector for engine dashboard B</p>	<p><b>G99b</b></p>	<p>Central service compartment earth</p>	<p><b>G1</b></p>
 <p>AB1,5 • I17 — 9</p> <p>9 — AB1 • E10</p> <p>9 — AB1 • E10</p> <p>33.90.016</p>		 <p>N10 • A1 (-)</p> <p>33.90.001</p>	
<p>Earth on cylinder block (from right services)</p>	<p><b>G267</b></p>	<p>Earth on cylinder block (from left services)</p>	<p><b>G267</b></p>
 <p>N1,5 • E8</p> <p>N1,5 • P2</p> <p>33.90.014</p>		 <p>N1,5 • E8</p> <p>N1 • E10</p> <p>33.90.014</p>	
<p>Earth on left service compartment</p>	<p><b>G283</b></p>	<p>Earth on left service compartment</p>	<p><b>G283</b></p>
 <p>N1,5 • G95 <b>G</b></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p>33.90.001</p>		 <p>N1 • I17</p> <p>N1 • P1</p> <p>33.90.014</p>	



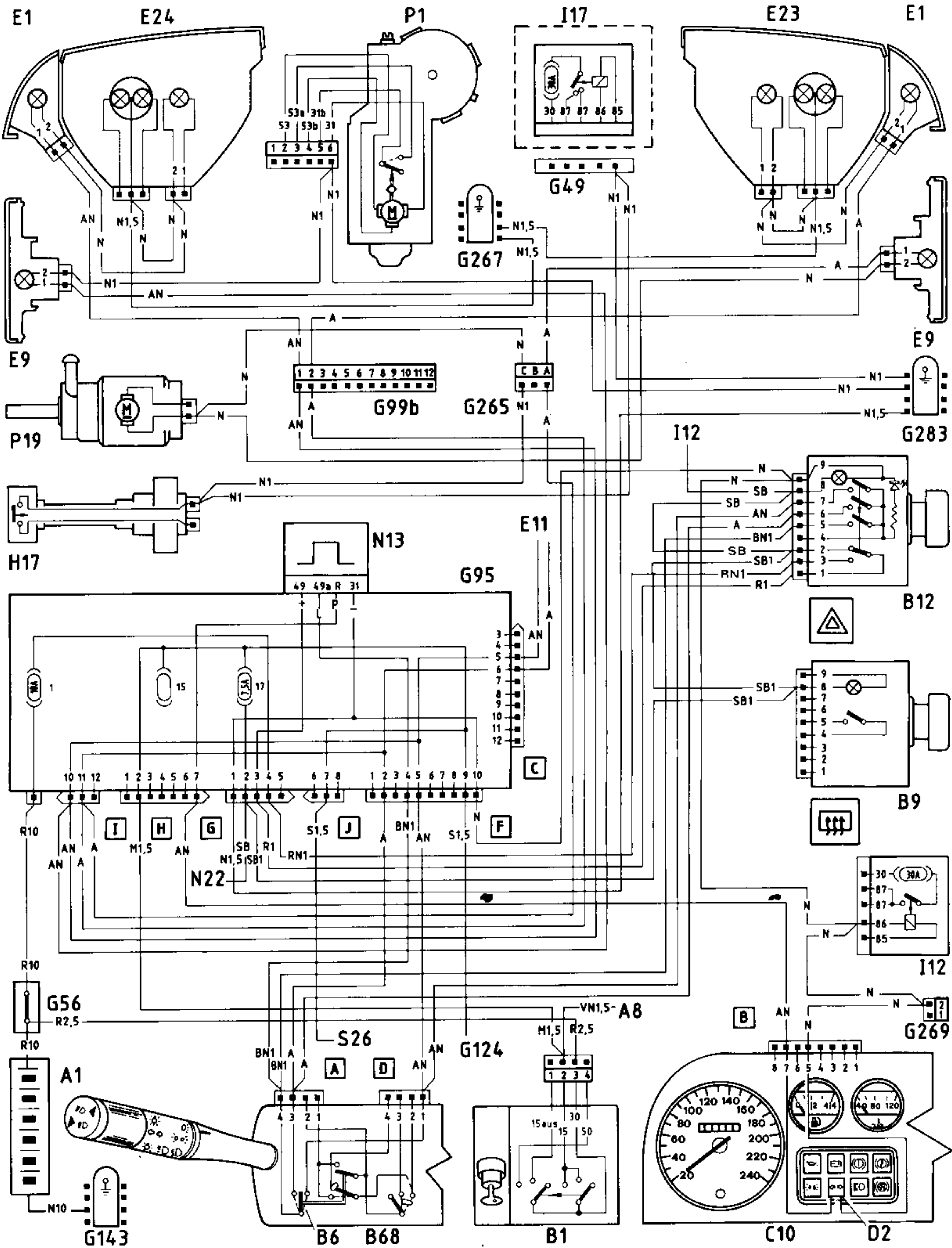
# ELECTRICAL SYSTEM



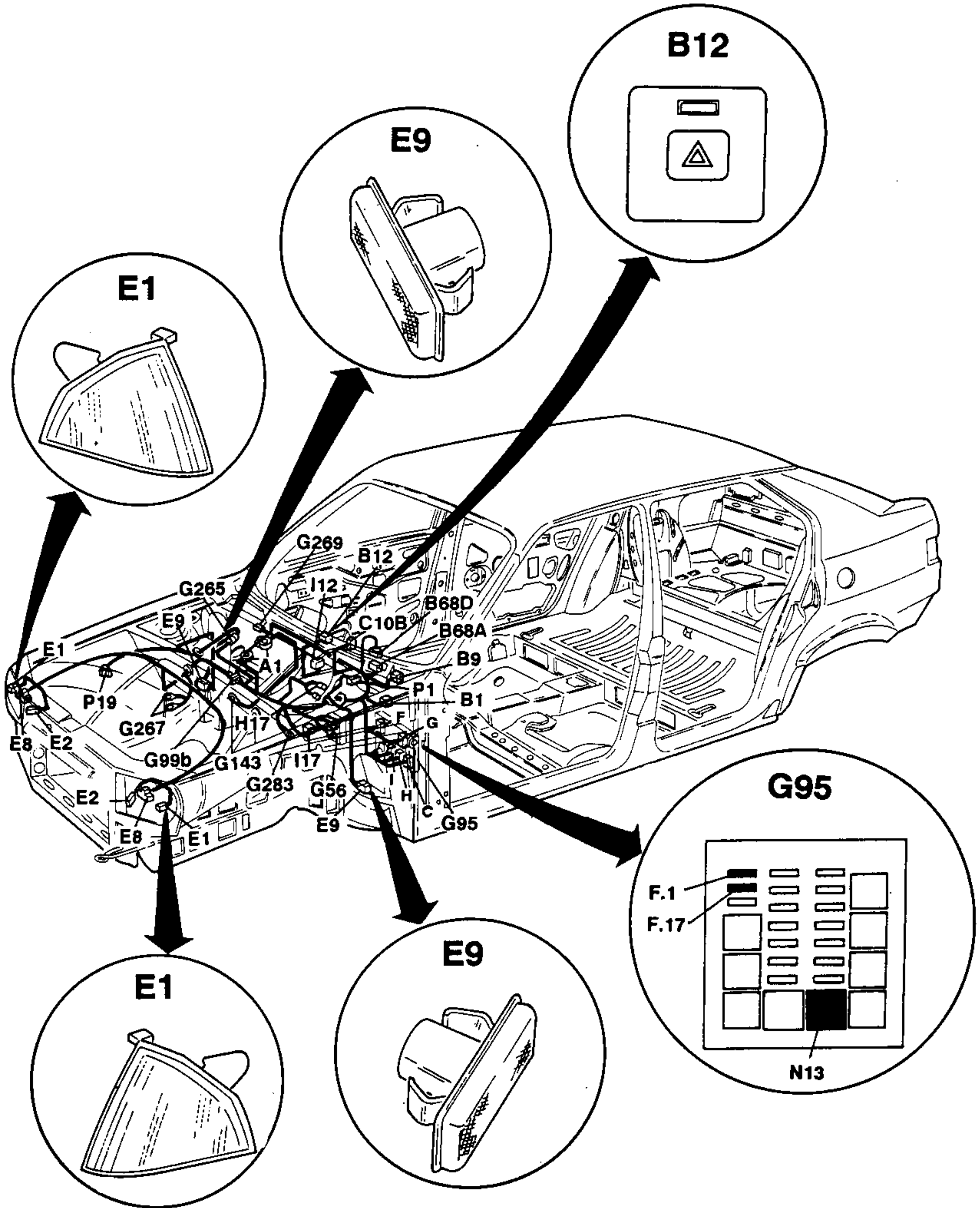
# ELECTRICAL SYSTEM

## DIRECTION INDICATORS - HAZARD WARNING LIGHTS (Front)

### Wiring diagram

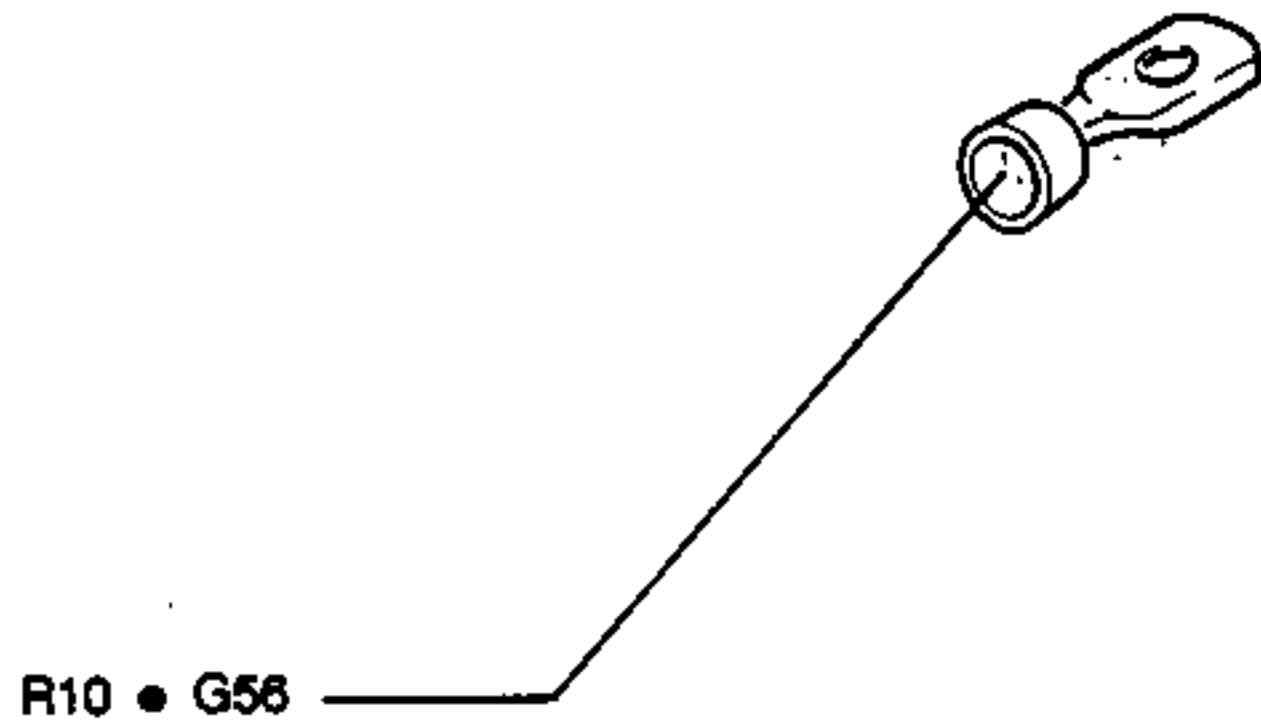
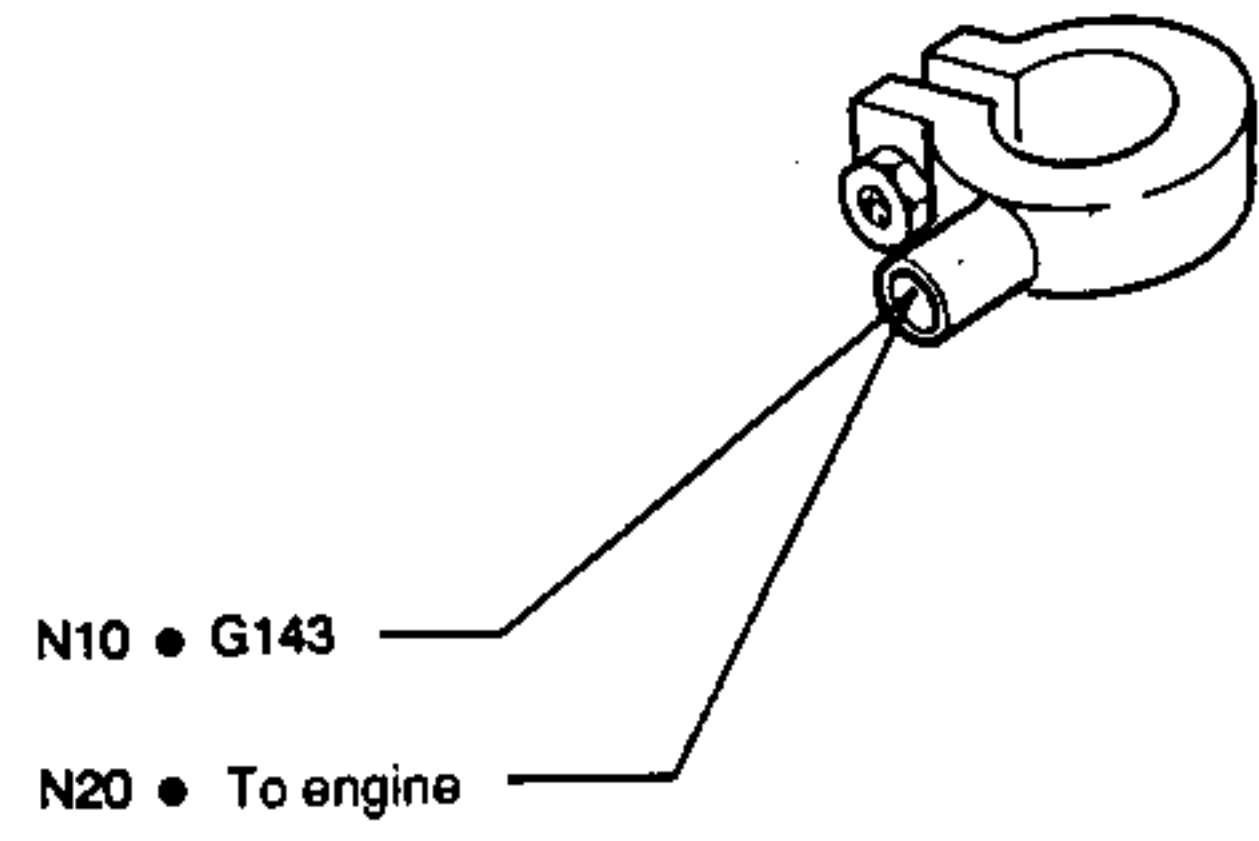
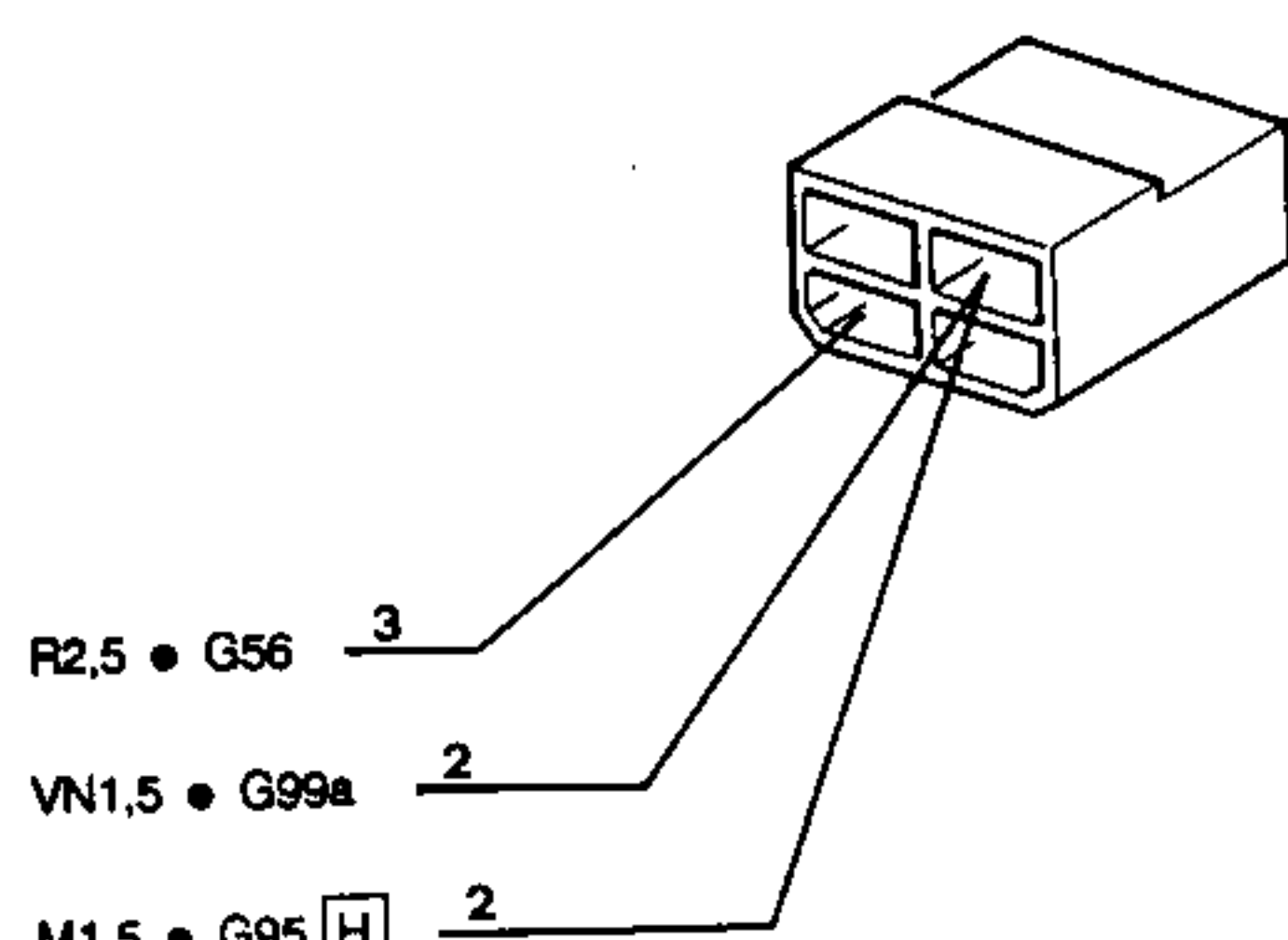
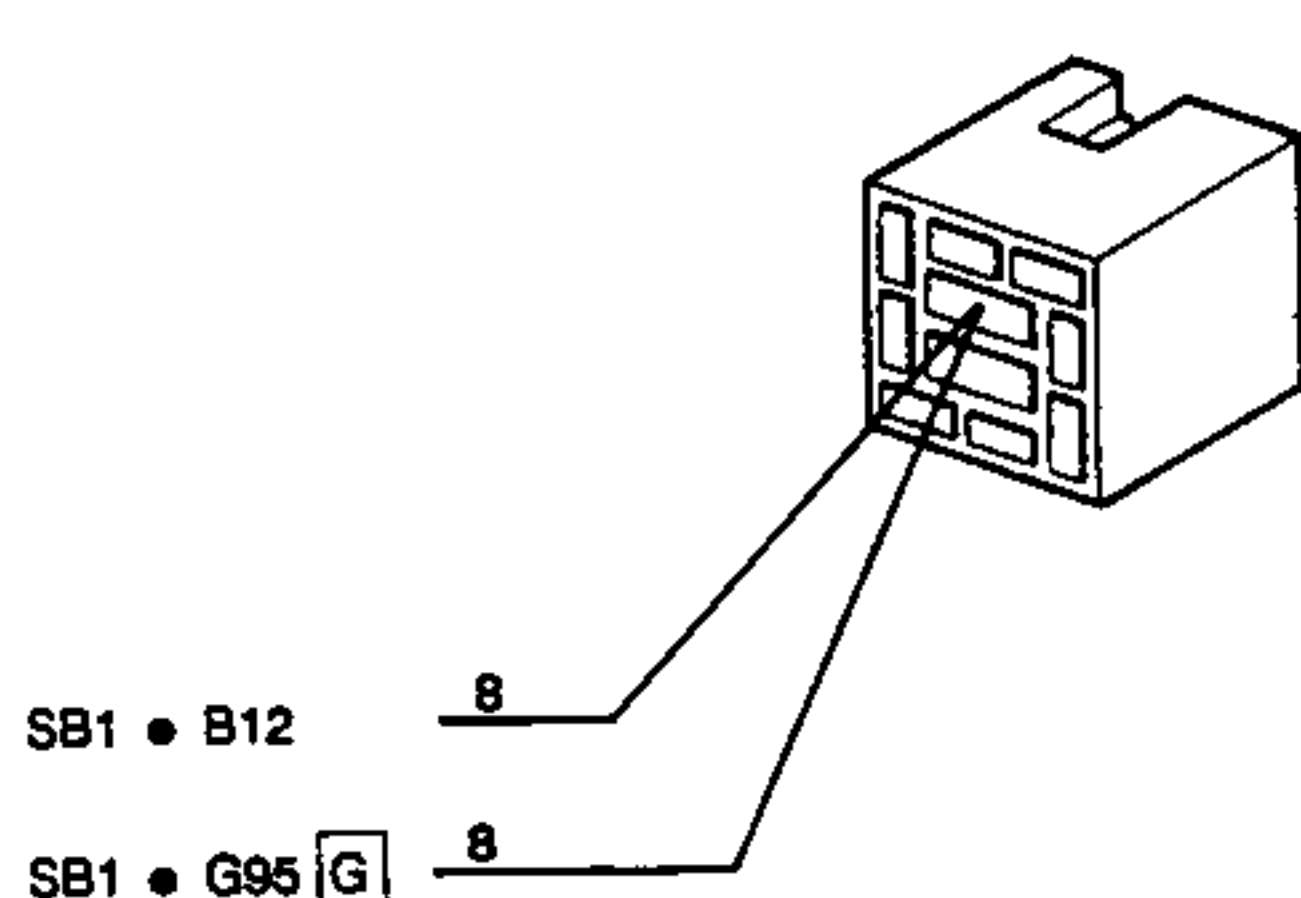
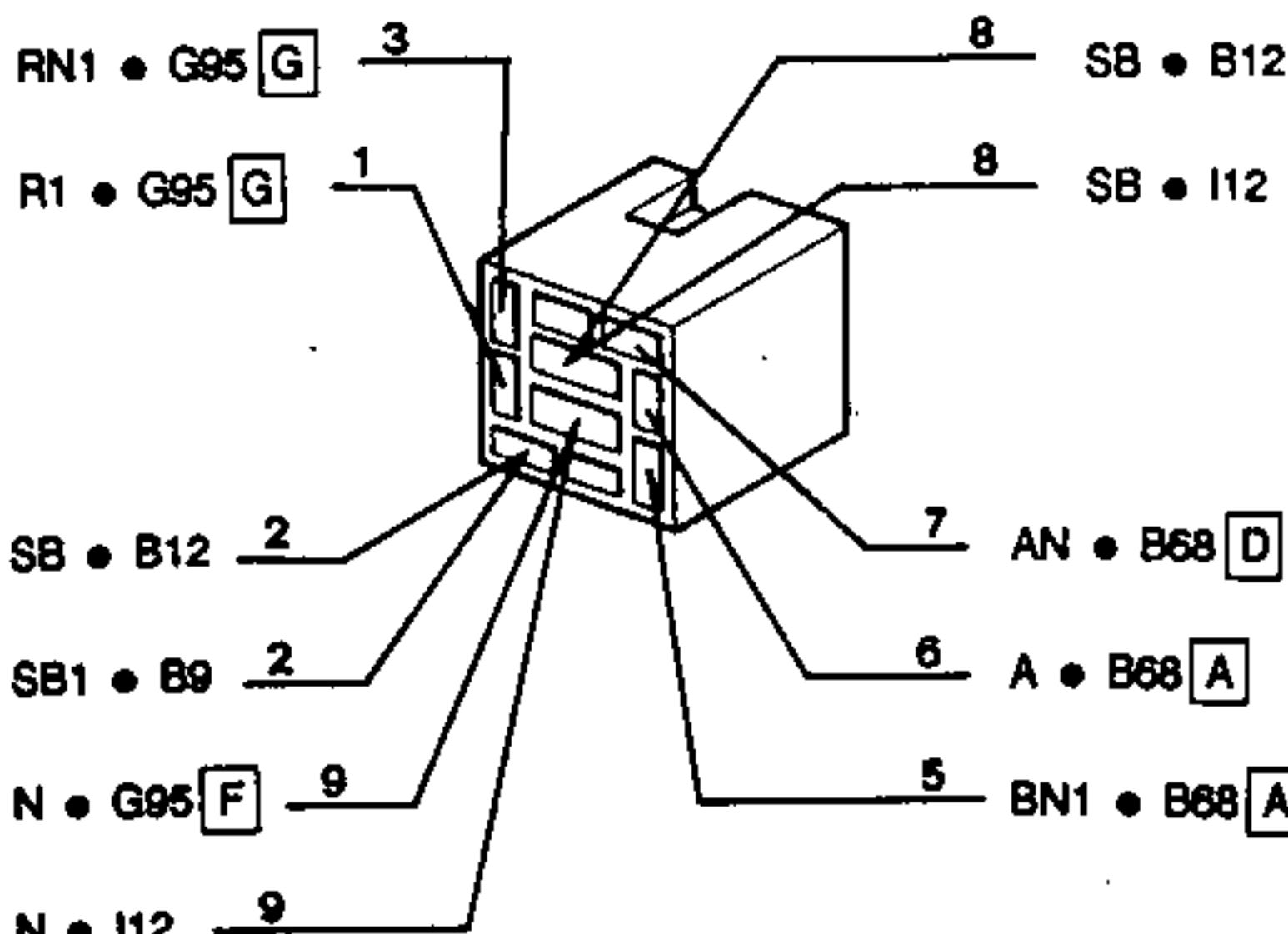
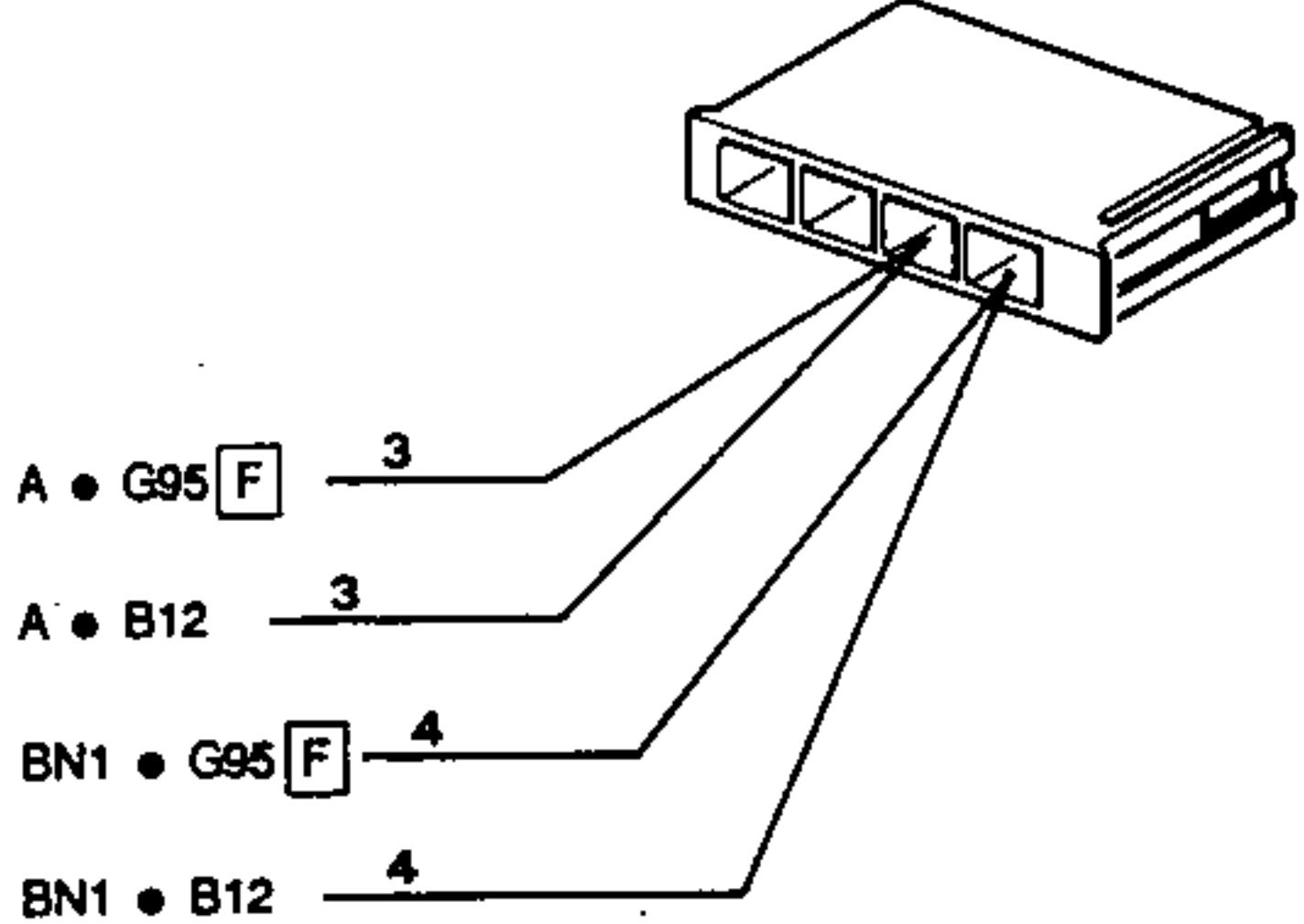


Wiring

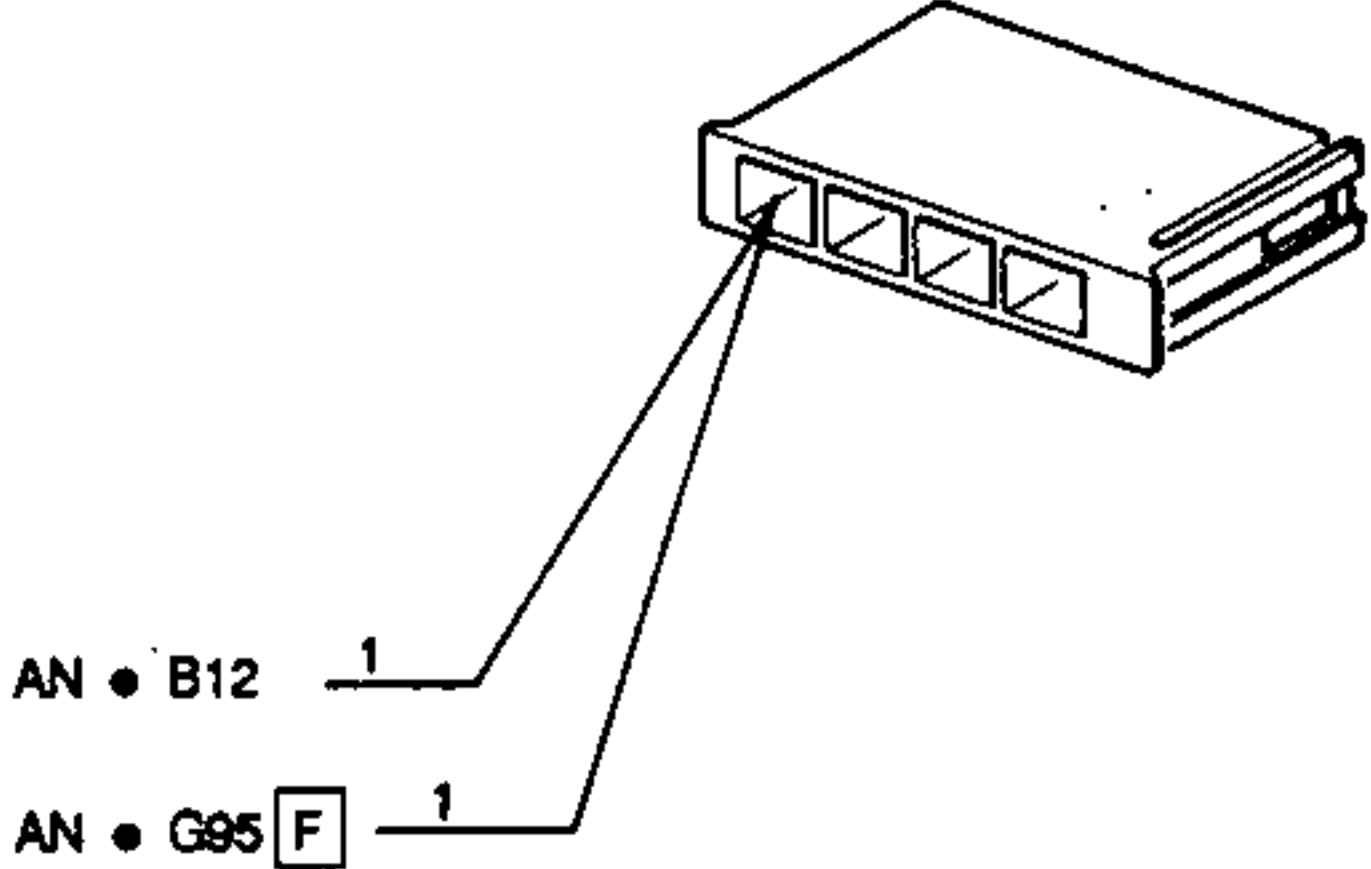
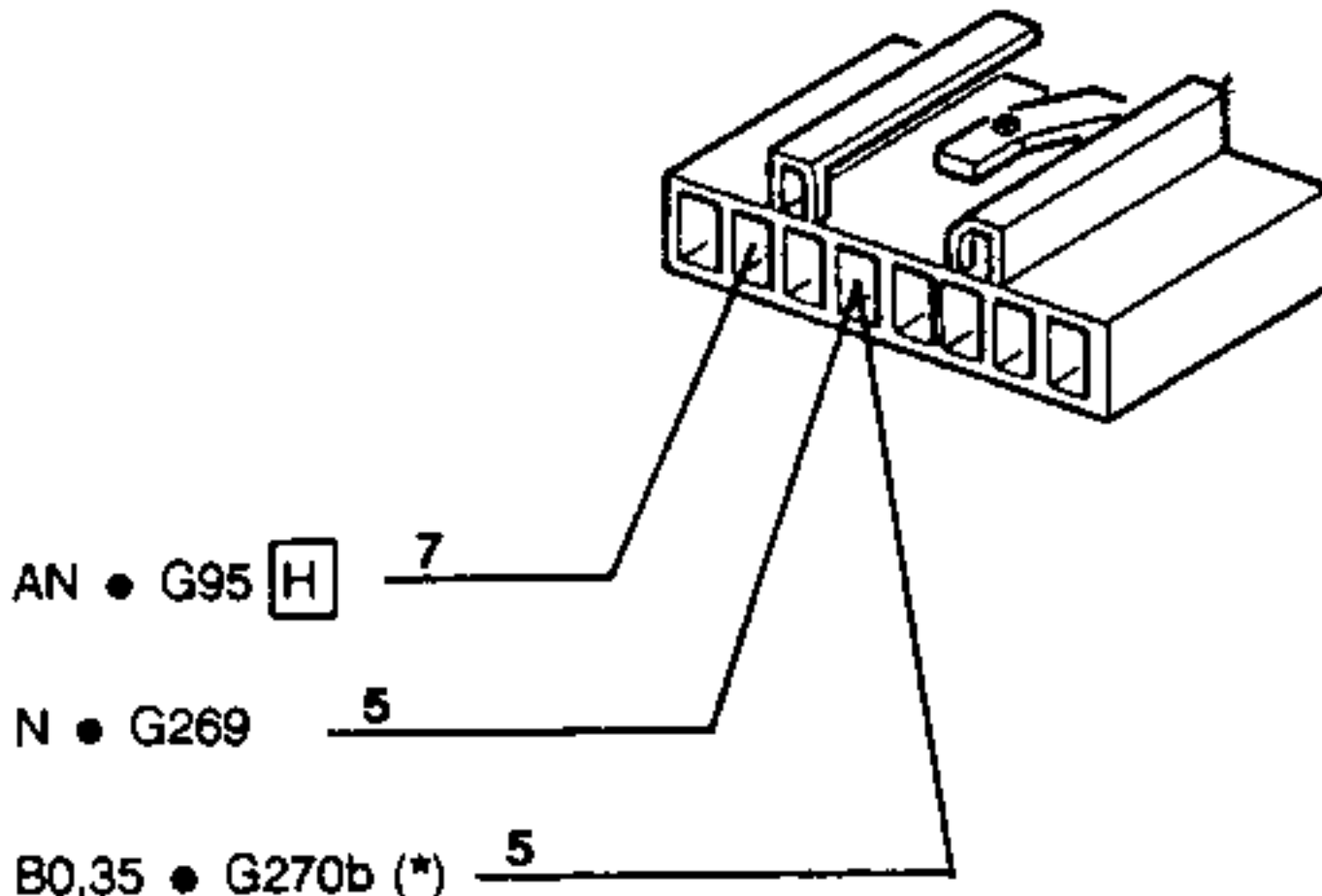
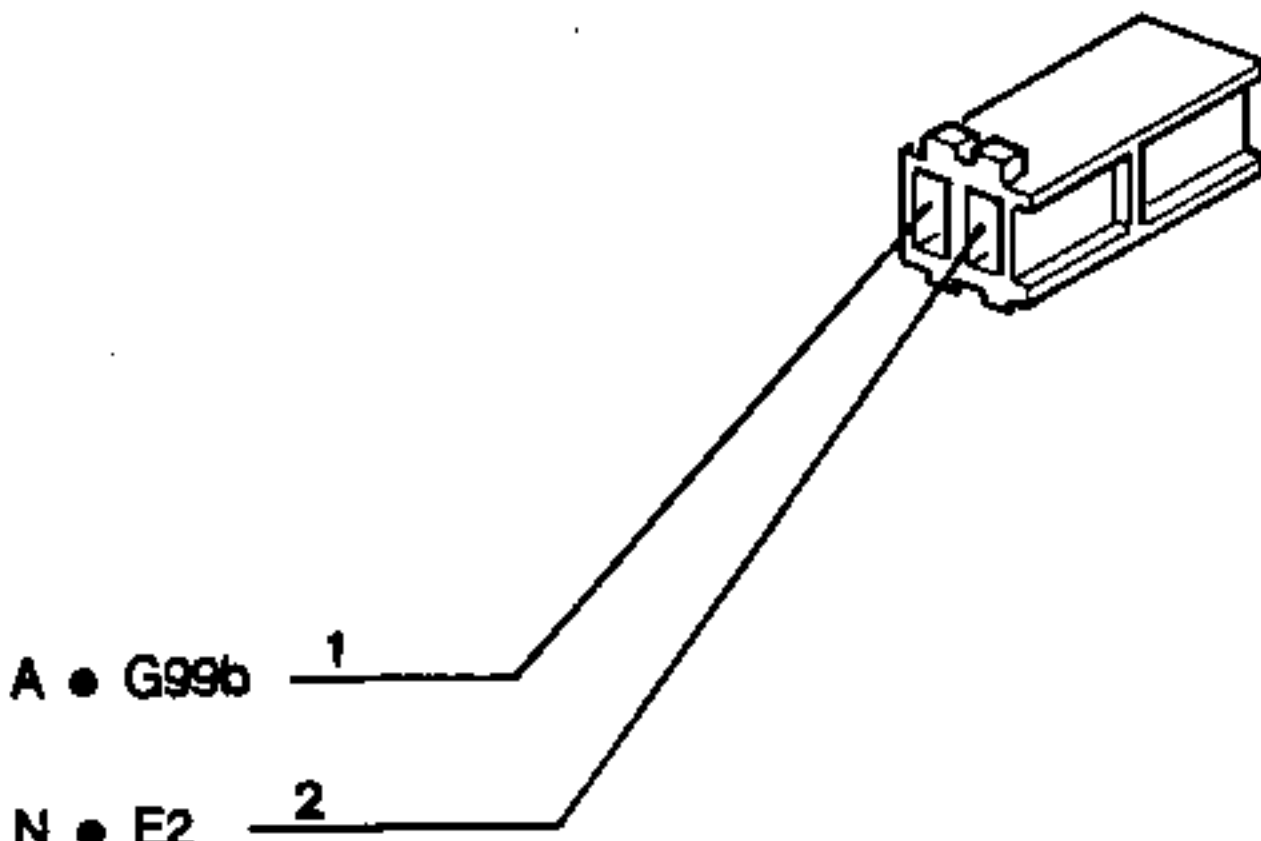
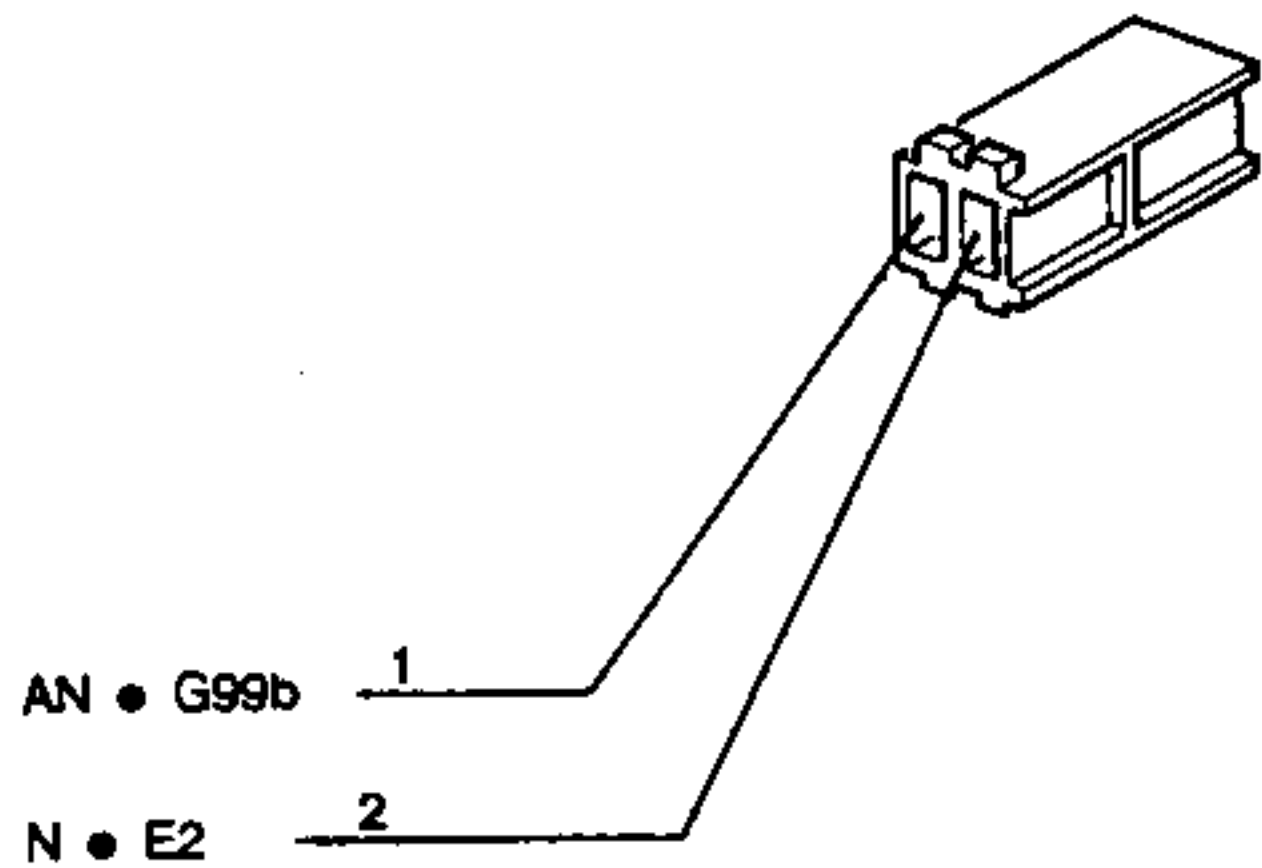
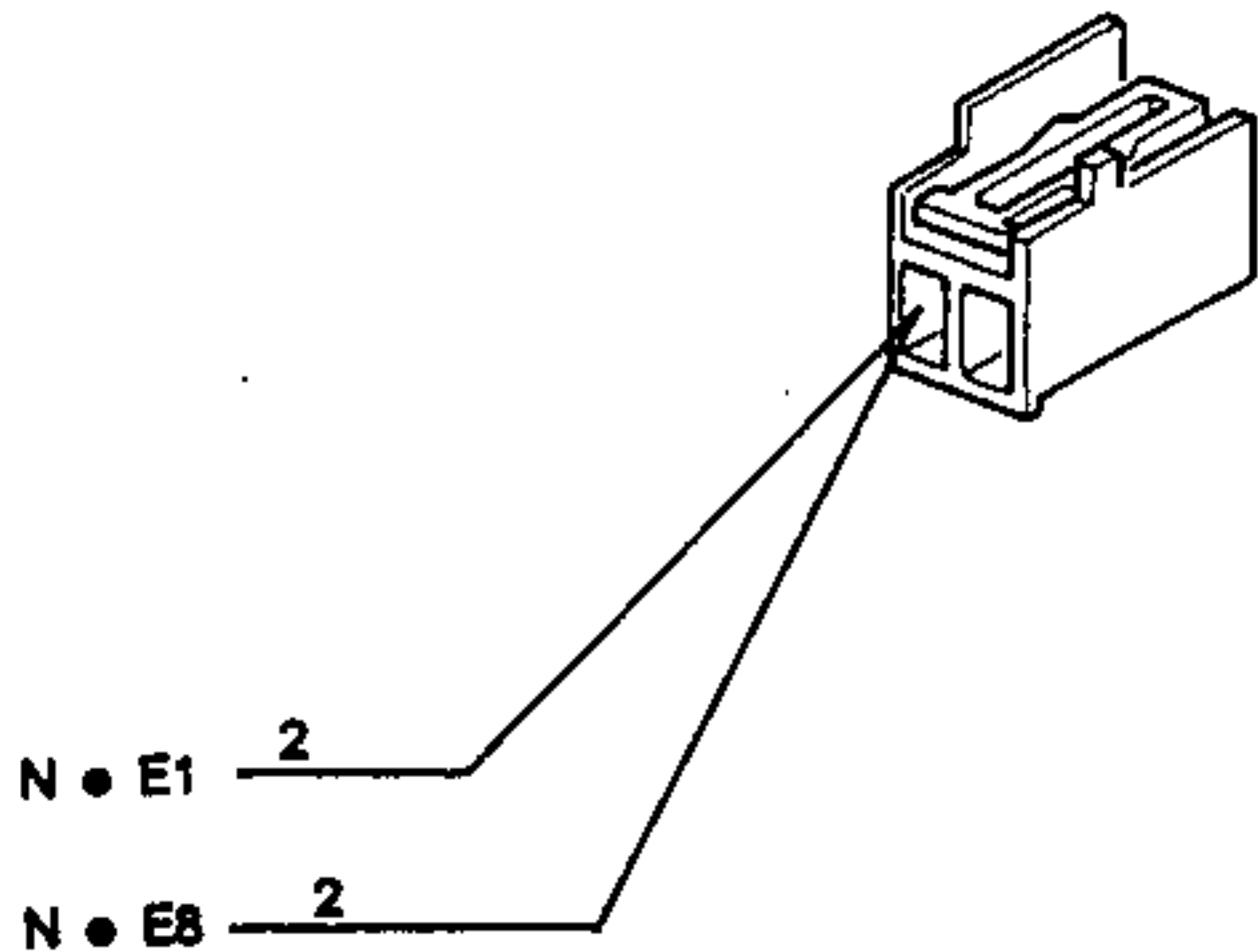
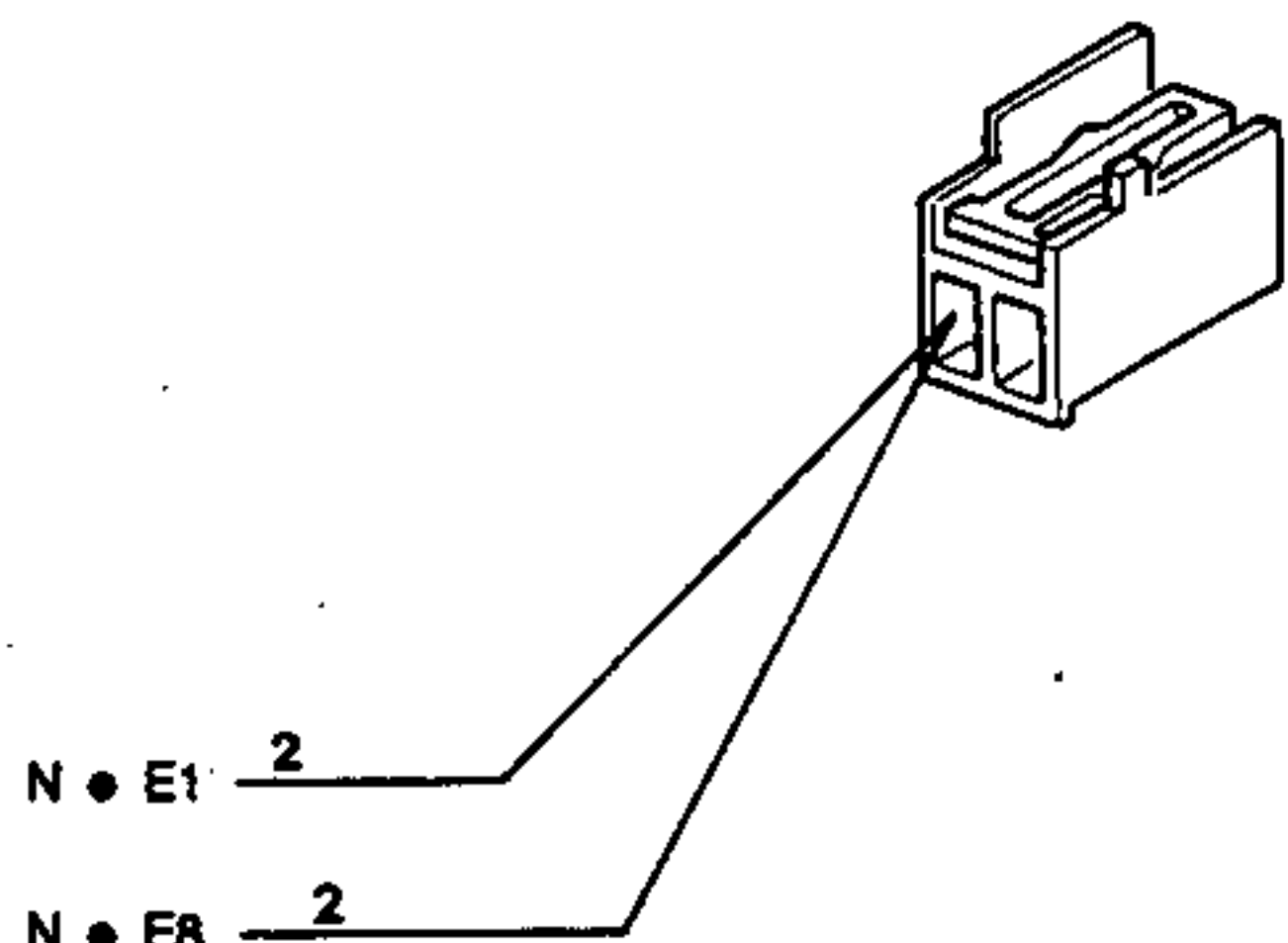


# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
Ignition switch	B1	Heated rear window control switch	B9
 <p>R2,5 • G56 3 VN1,5 • G99a 2 M1,5 • G95 [H] 2</p>		 <p>SB1 • B12 8 SB1 • G95 [G] 8</p>	
33.90.028		33.90.008	
Hazard warning light switch	B12	Turn signal switch unit	B68 A
 <p>RN1 • G95 [G] 3 R1 • G95 [G] 1 SB • B12 2 SB1 • B9 2 N • G95 [F] 9 N • I12 9 SB • B12 8 SB • I12 8 AN • B68 [D] 7 A • B68 [A] 6 BN1 • B68 [A] 5</p>		 <p>A • G95 [F] 3 A • B12 3 BN1 • G95 [F] 4 BN1 • B12 4</p>	
33.90.008		33.90.027	

# ELECTRICAL SYSTEM

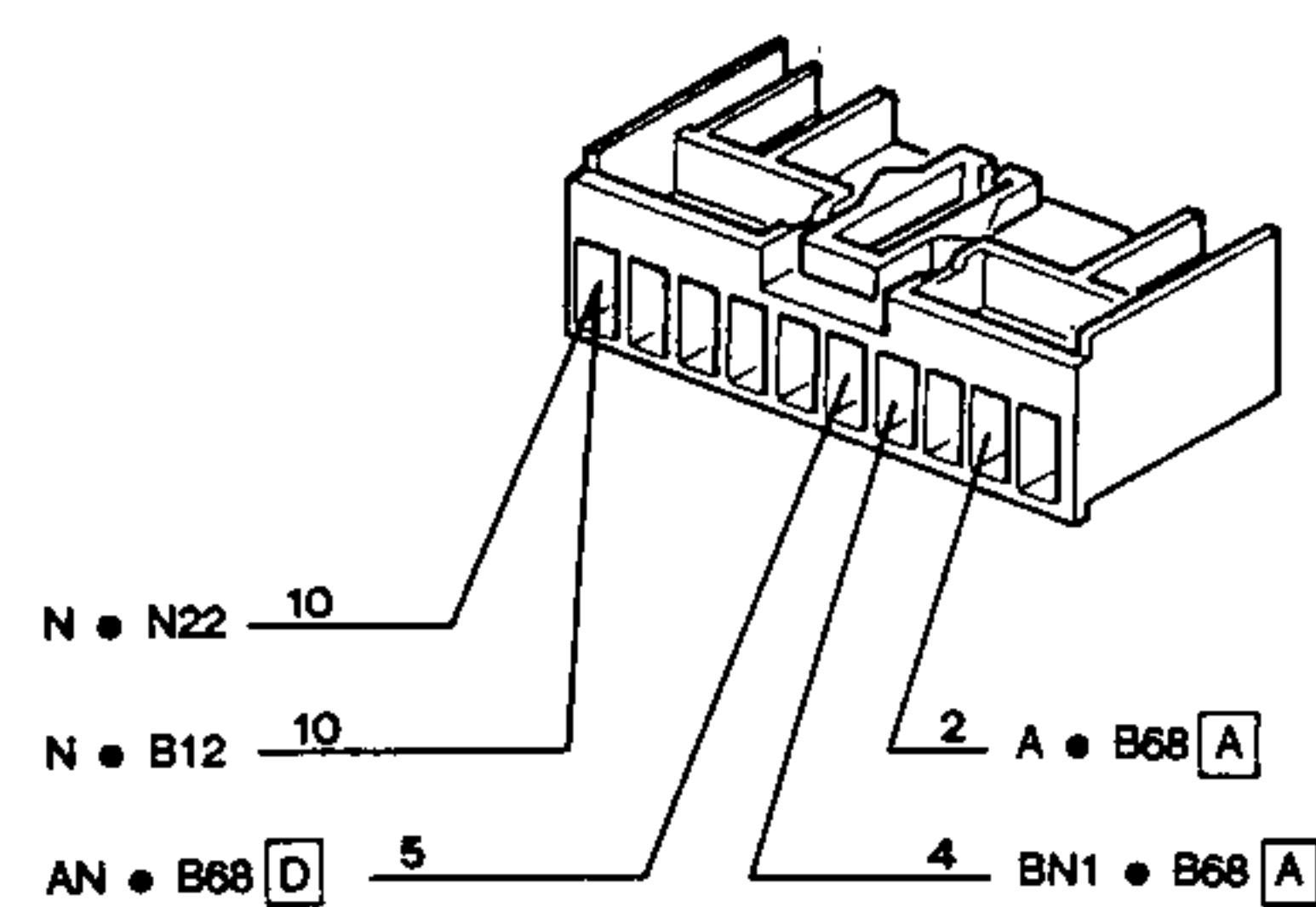
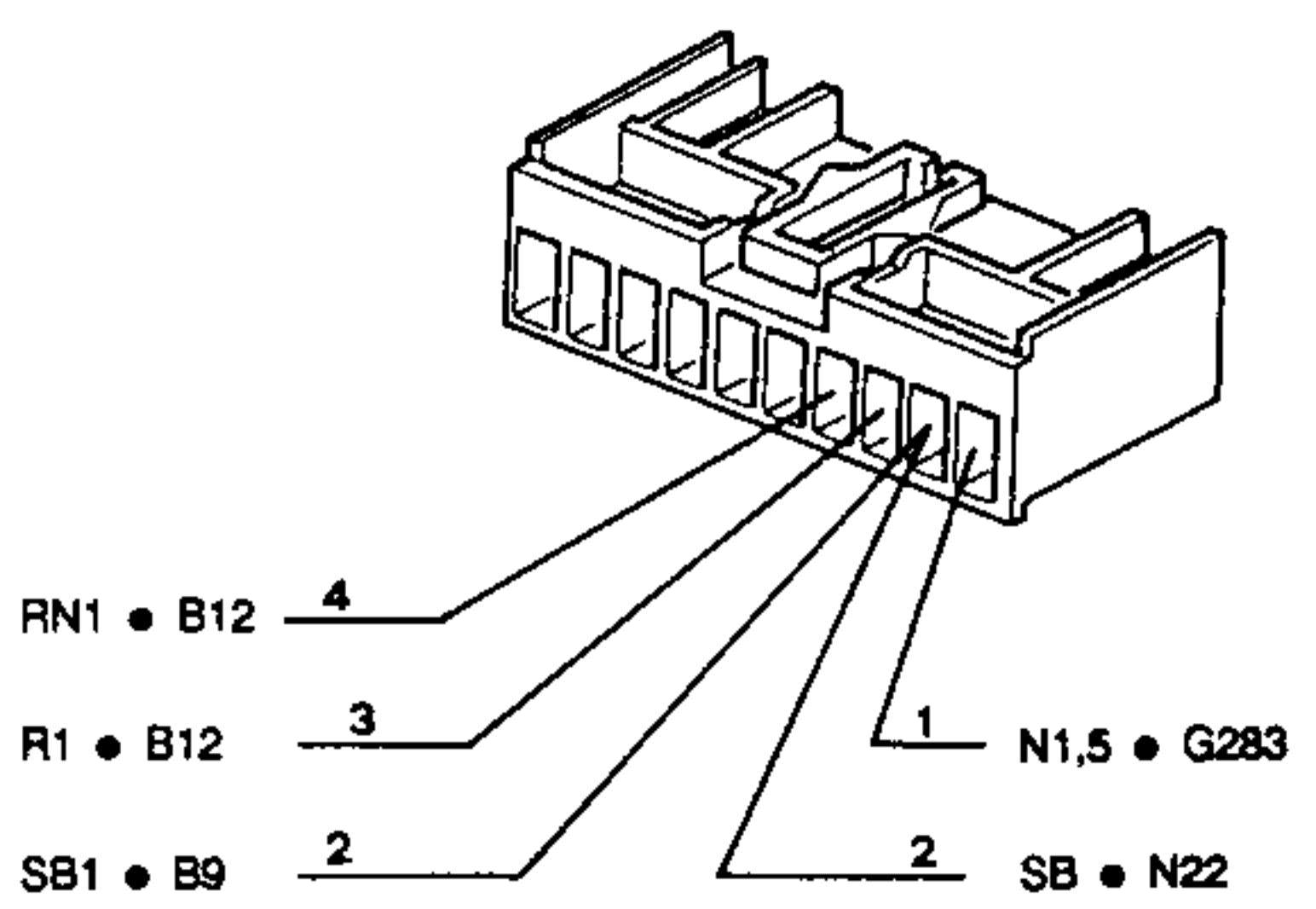
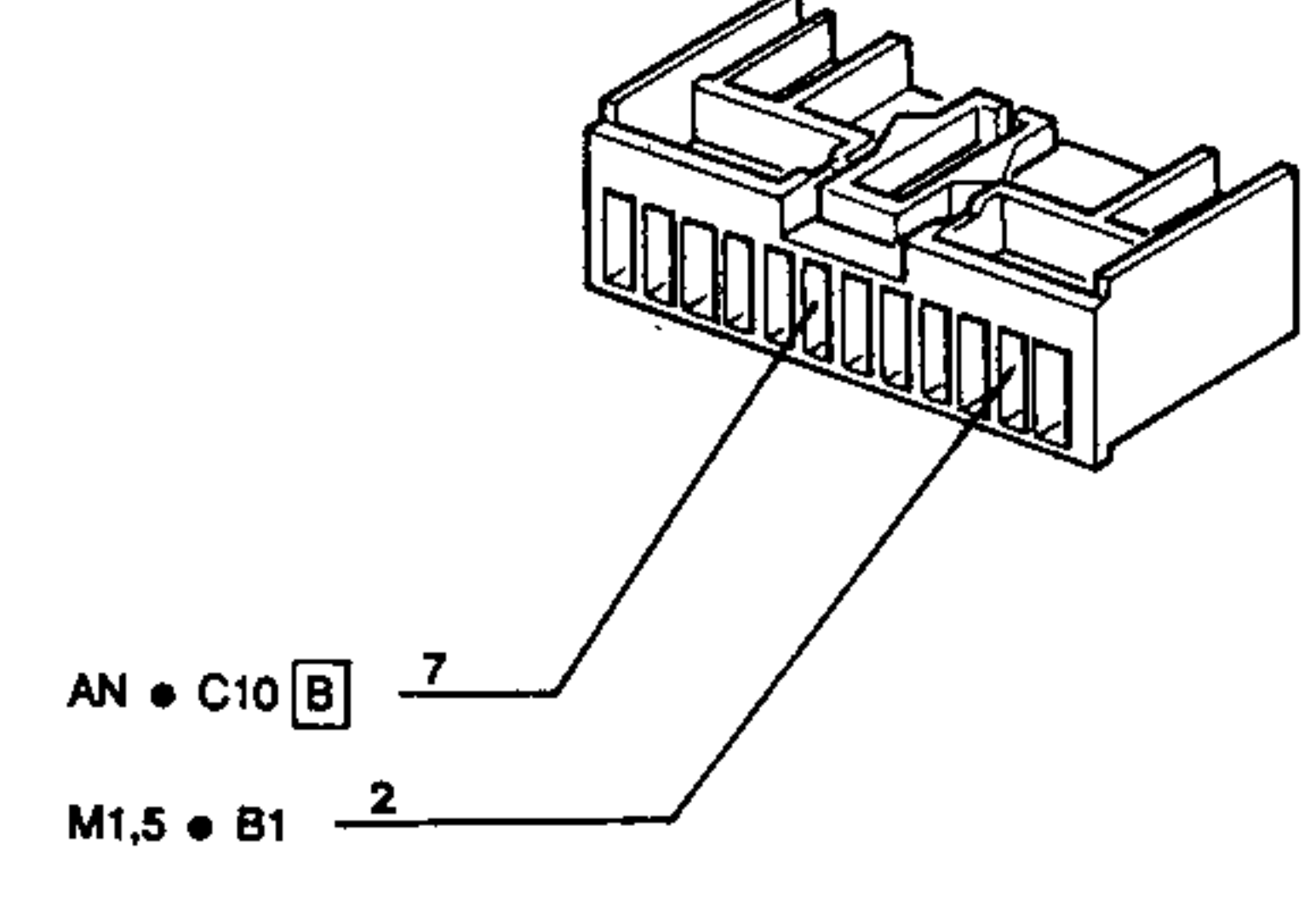
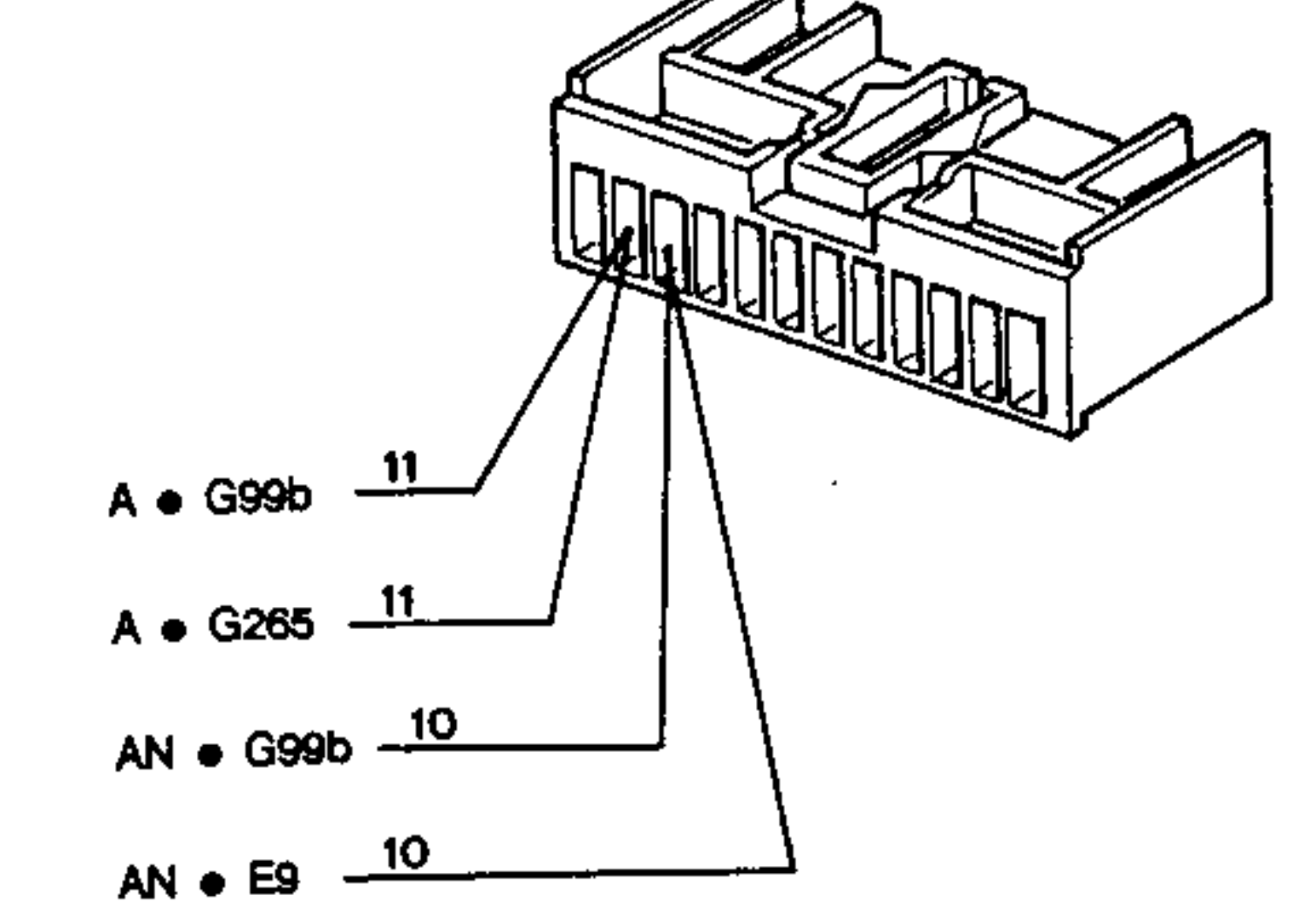
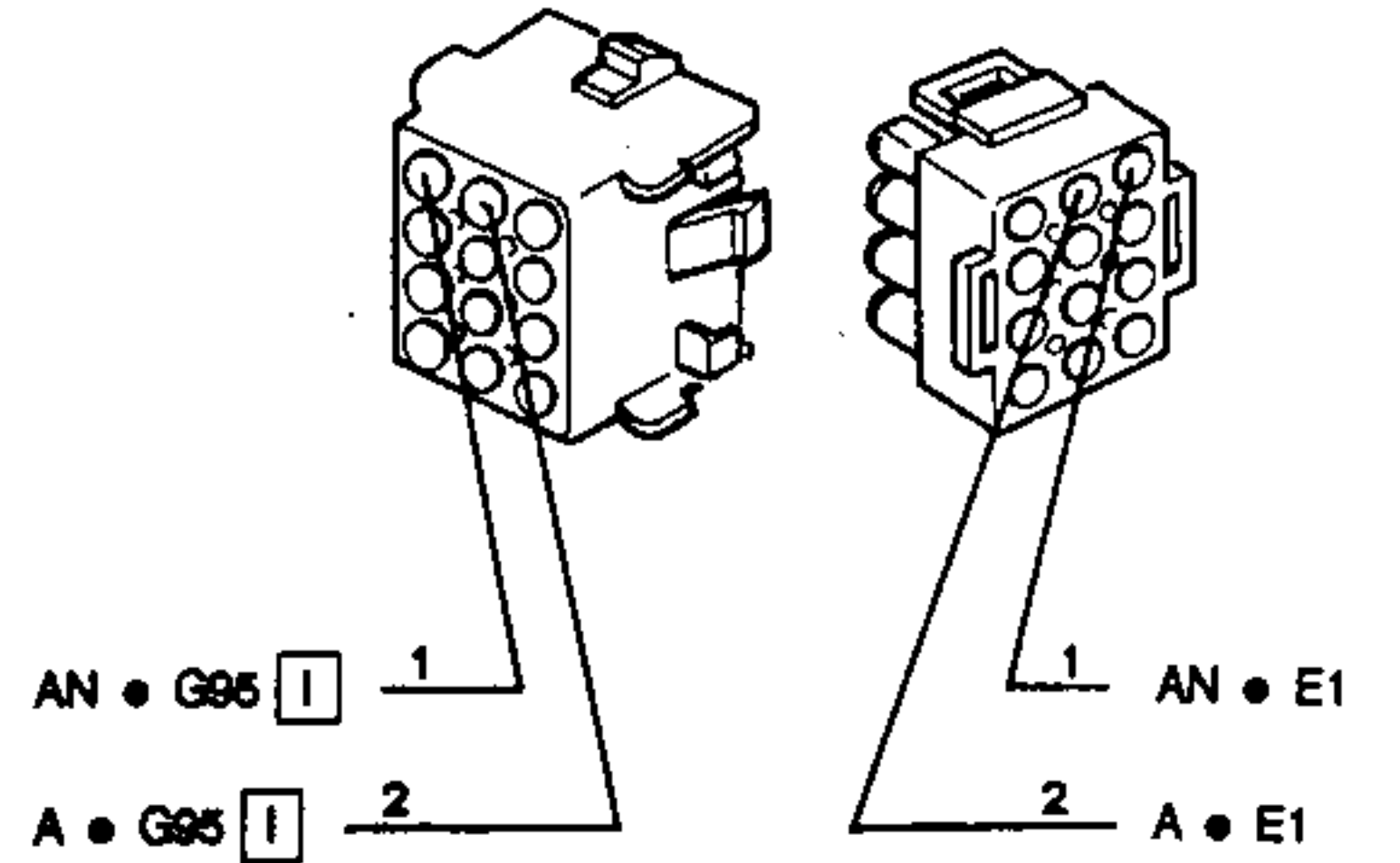
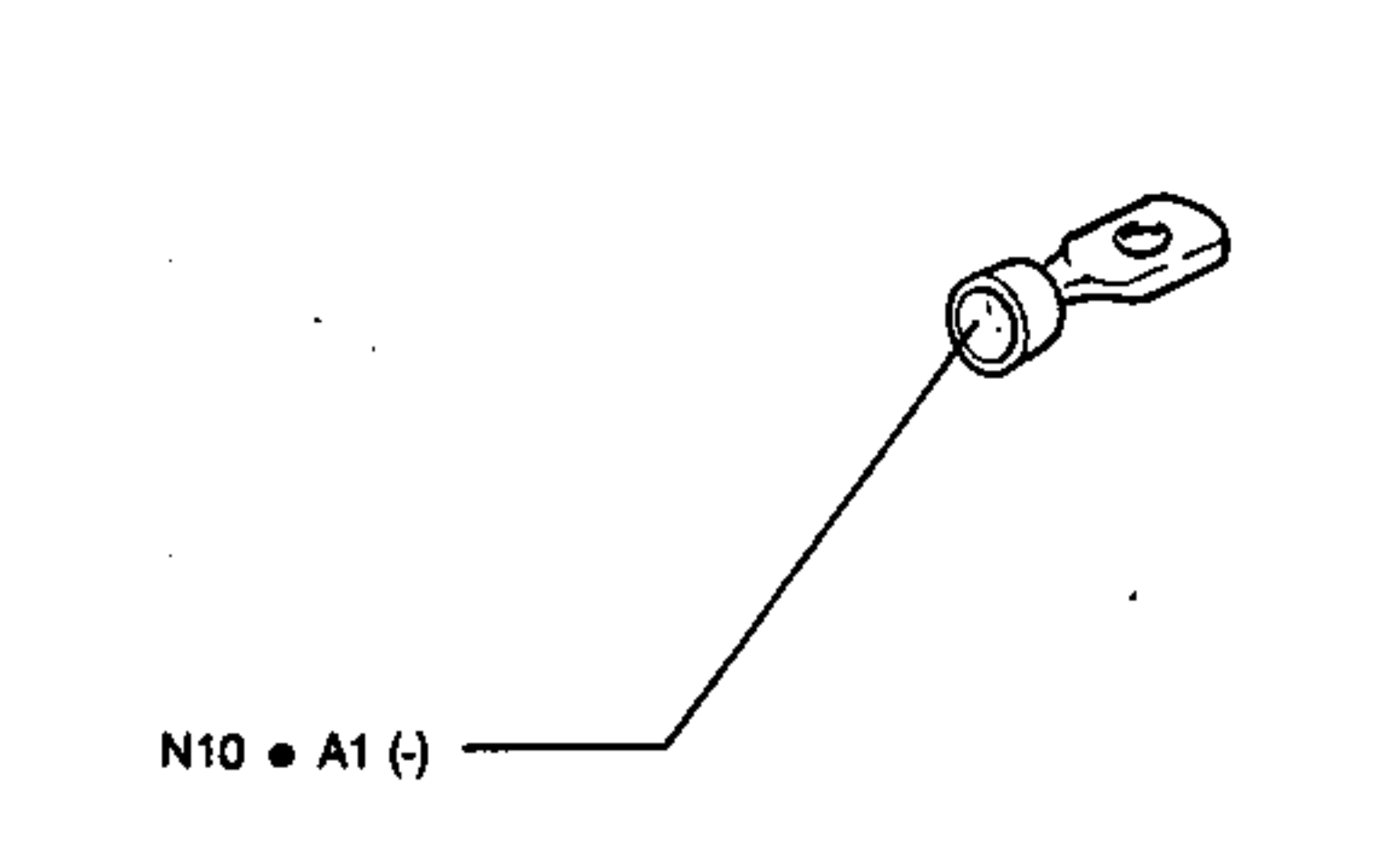
Turn signal switch unit	<b>B68 D</b>	Instrument panel	<b>C10 B</b>
 <p style="margin-top: 10px;">                     AN • B12 <u>1</u>                      AN • G95 <b>F</b> <u>1</u> </p>		 <p style="margin-top: 10px;">                     AN • G95 <b>H</b> <u>7</u>                      N • G269 <u>5</u>                      B0,35 • G270b (*) <u>5</u> </p>	
33.90.027		33.90.024	
Front direction indicator lamp (right)	<b>E1</b>	Front direction indicator lamp (left)	<b>E1</b>
 <p style="margin-top: 10px;">                     A • G99b <u>1</u>                      N • E2 <u>2</u> </p>		 <p style="margin-top: 10px;">                     AN • G99b <u>1</u>                      N • E2 <u>2</u> </p>	
33.90.064		33.90.064	
Front side light (right)	<b>E2</b>	Front side light (left)	<b>E2</b>
 <p style="margin-top: 10px;">                     N • E1 <u>2</u>                      N • E8 <u>2</u> </p>		 <p style="margin-top: 10px;">                     N • E1 <u>2</u>                      N • E8 <u>2</u> </p>	
33.90.060		33.90.060	

(\*) Specific to 4x4 versions

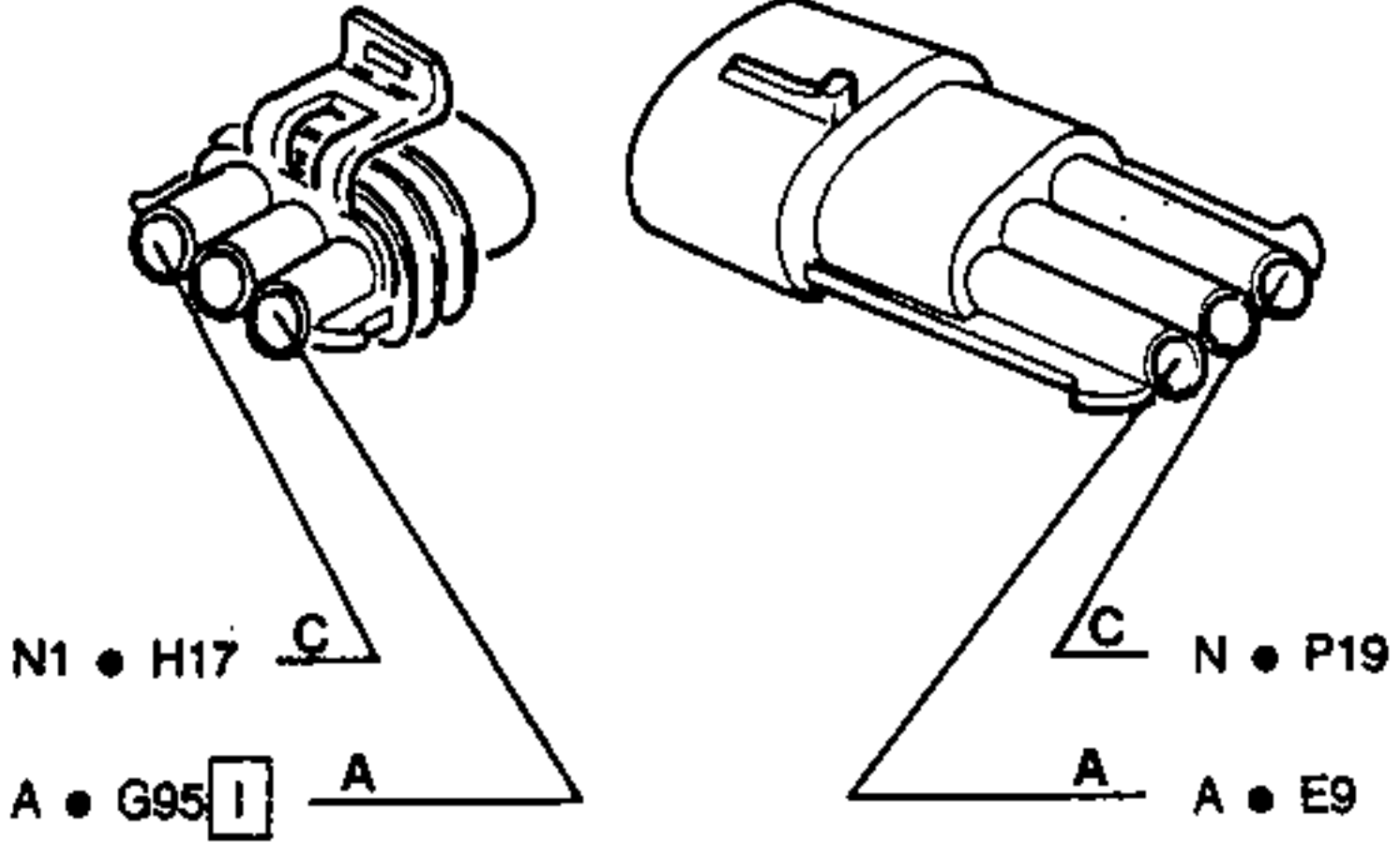
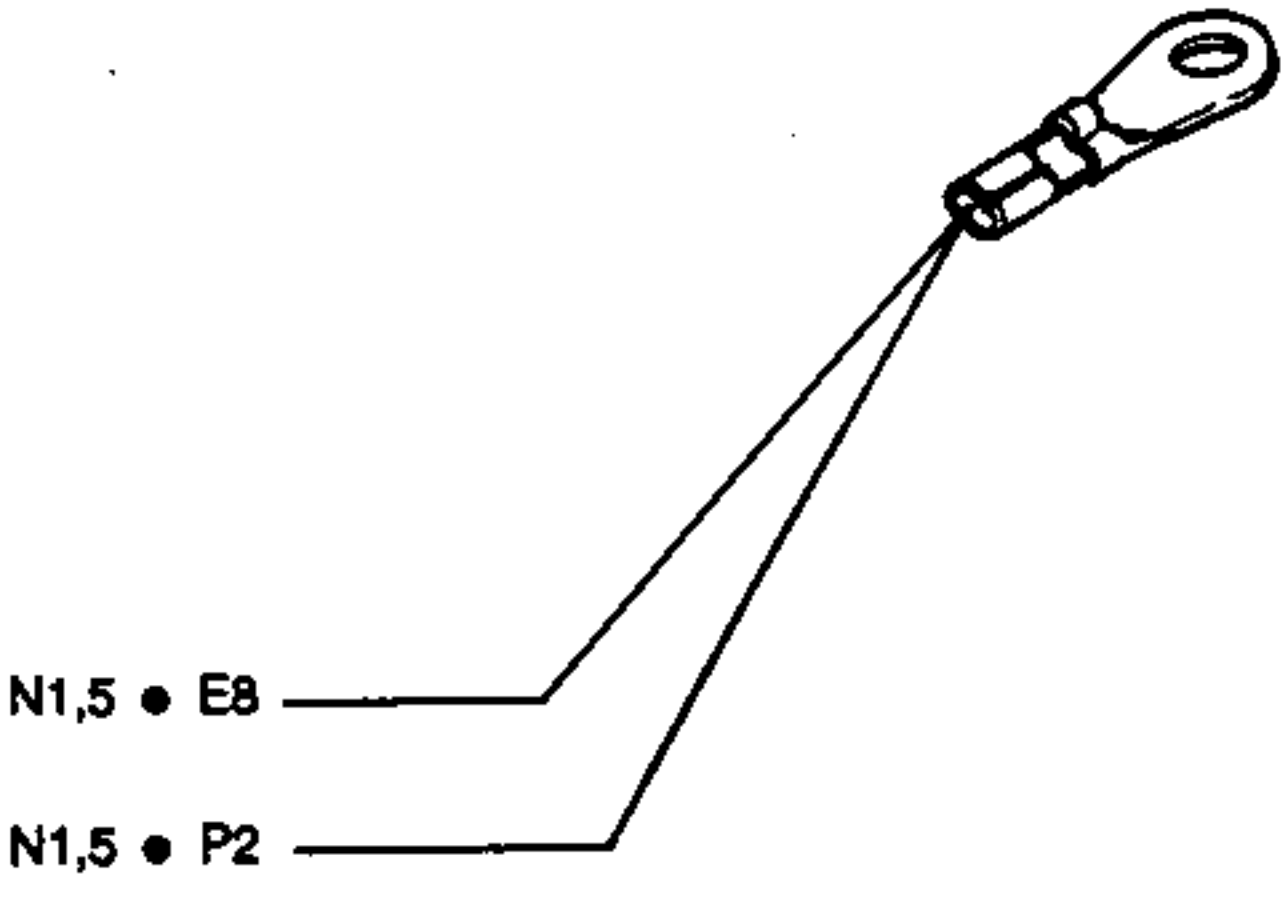
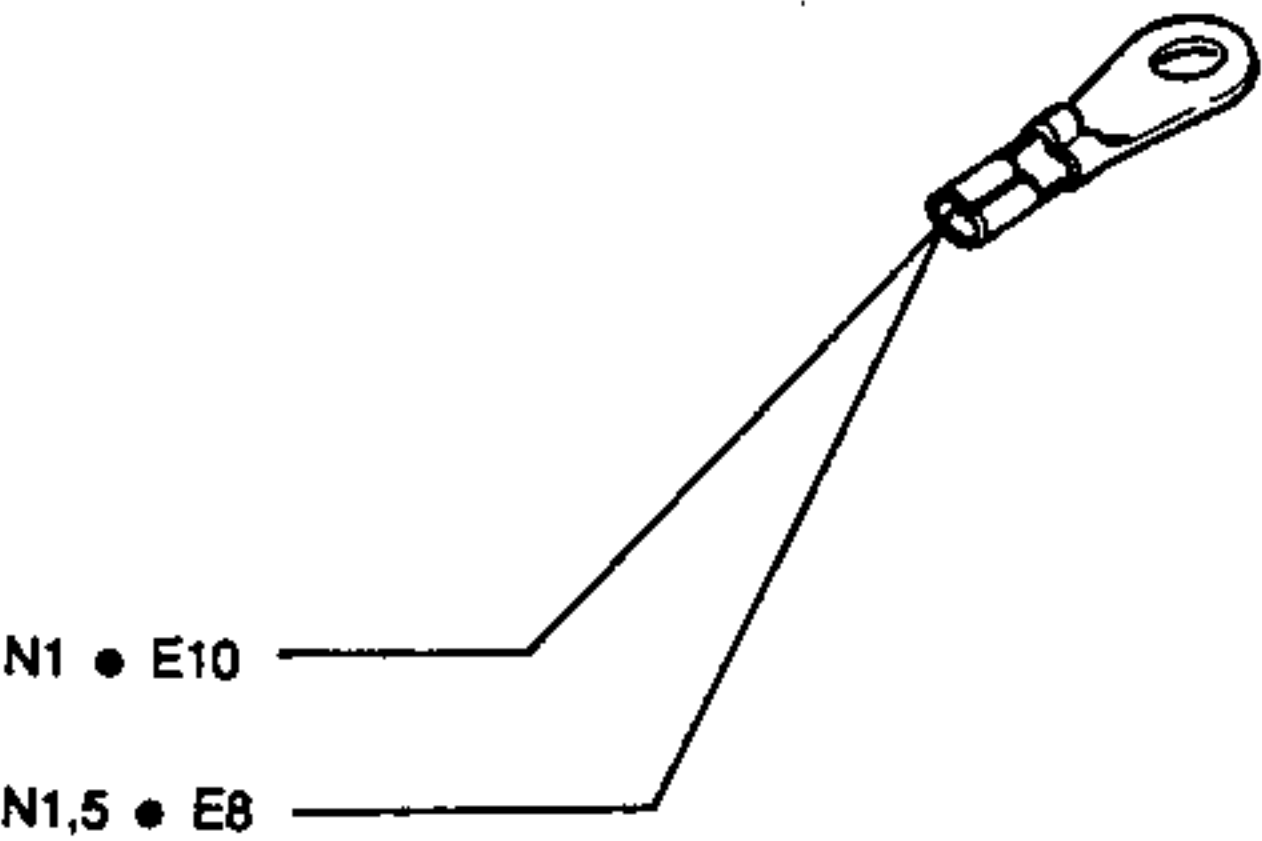
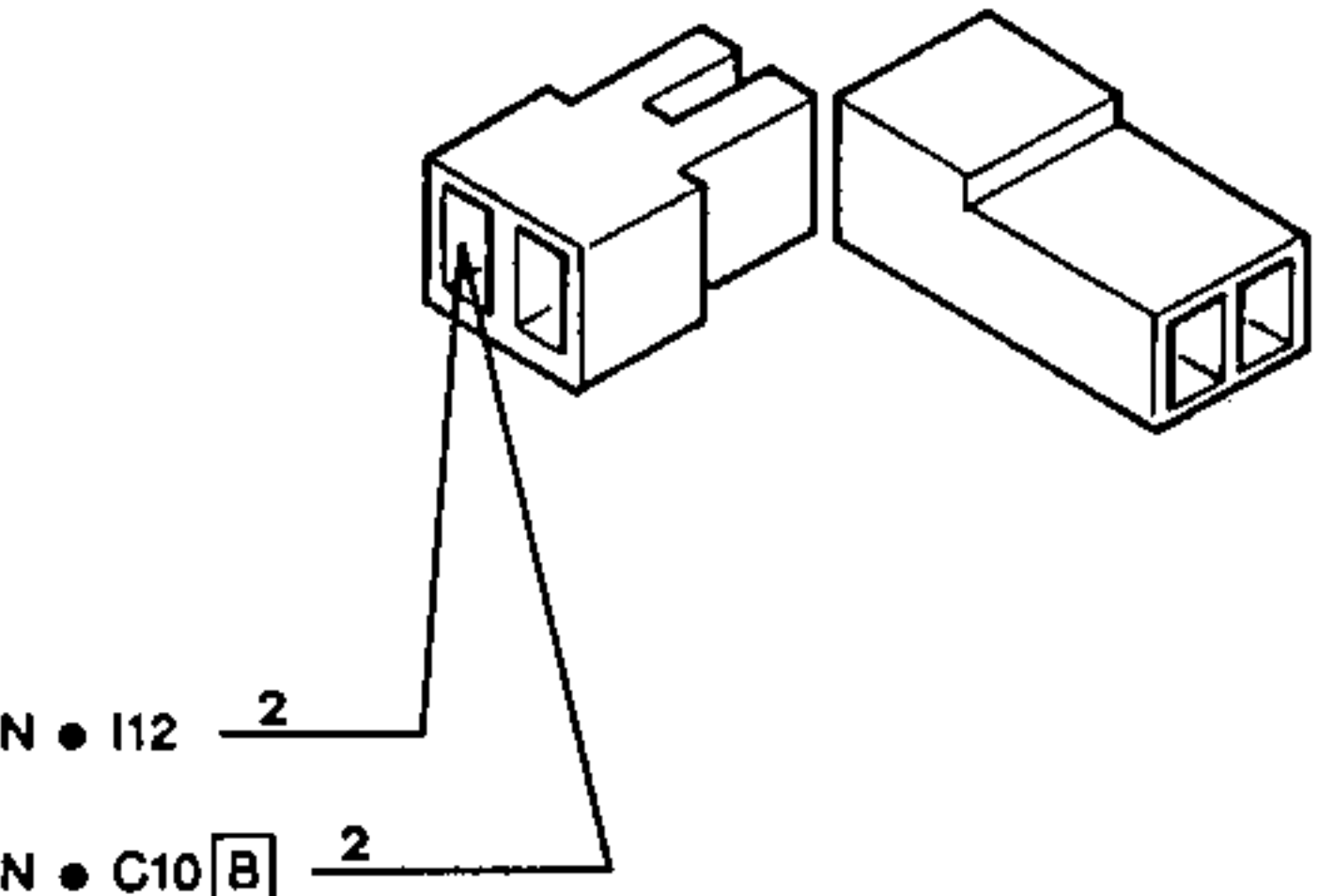
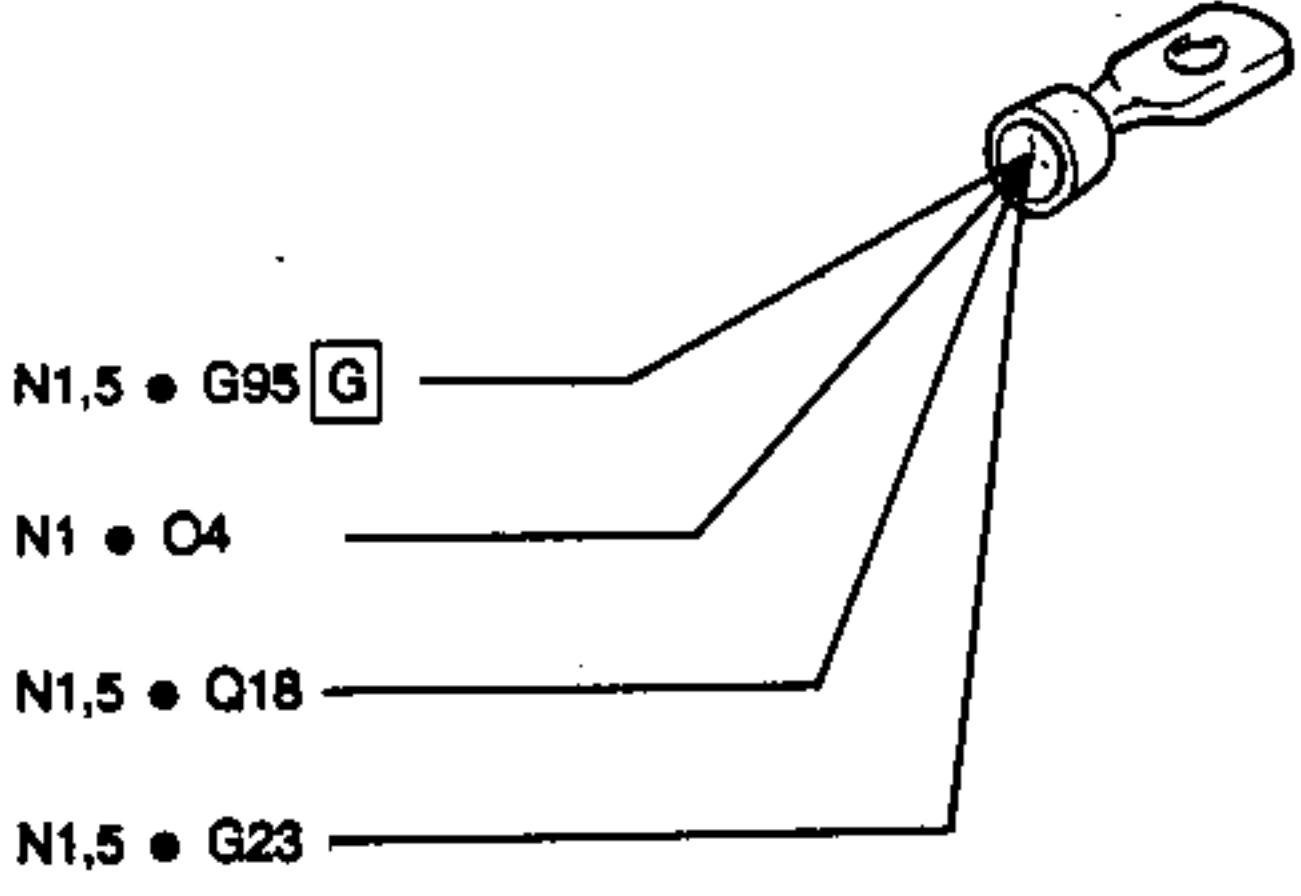
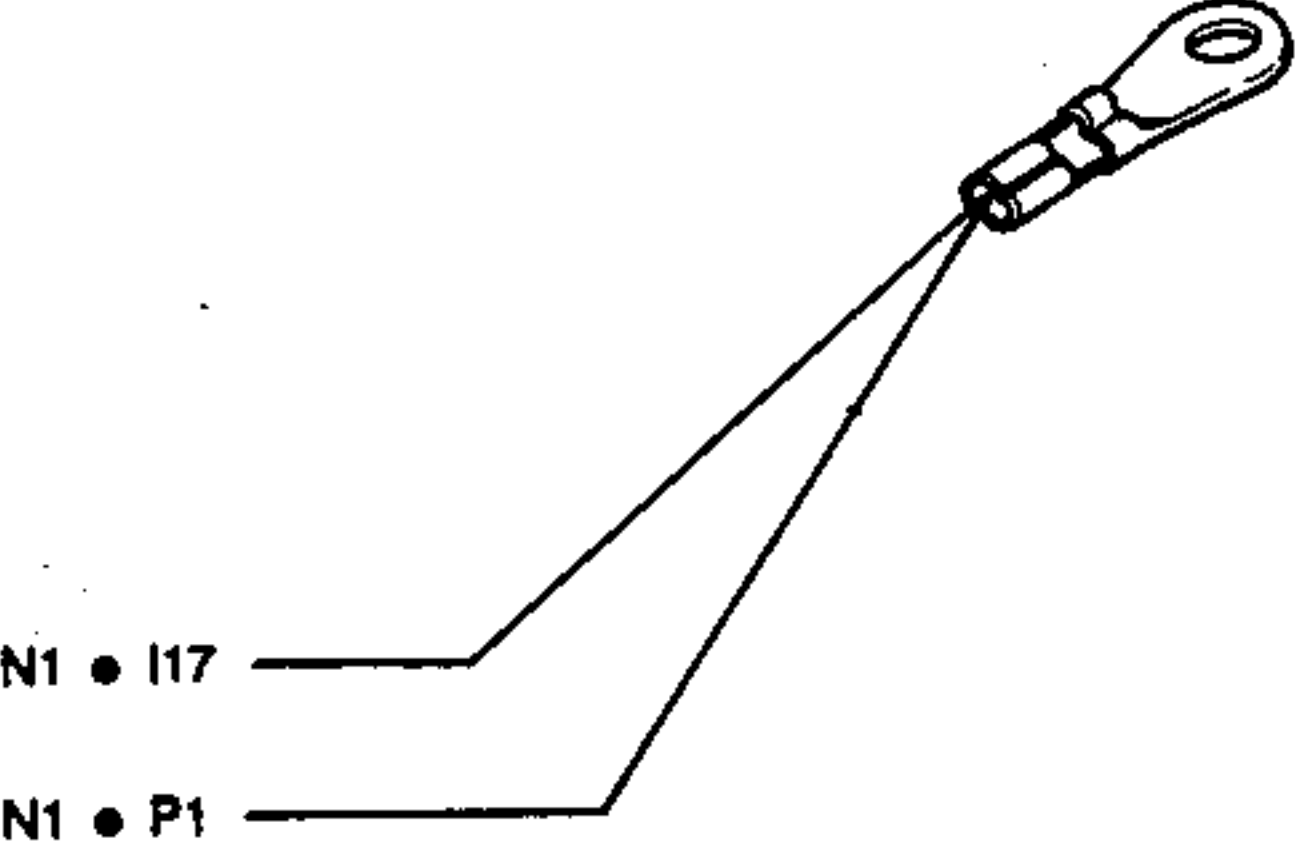
# ELECTRICAL SYSTEM

Dipped and main beam light (right)	<b>E8</b>	Dipped and main beam light (left)	<b>E8</b>
33.90.026		33.90.026	
Side repeater (right)	<b>E9</b>	Side repeater (left)	<b>E9</b>
33.90.065		33.90.065	
Branch terminal board	<b>G56</b>	Central fusebox (+)	<b>G95</b>
33.90.011		33.90.006	

ELECTRICAL SYSTEM

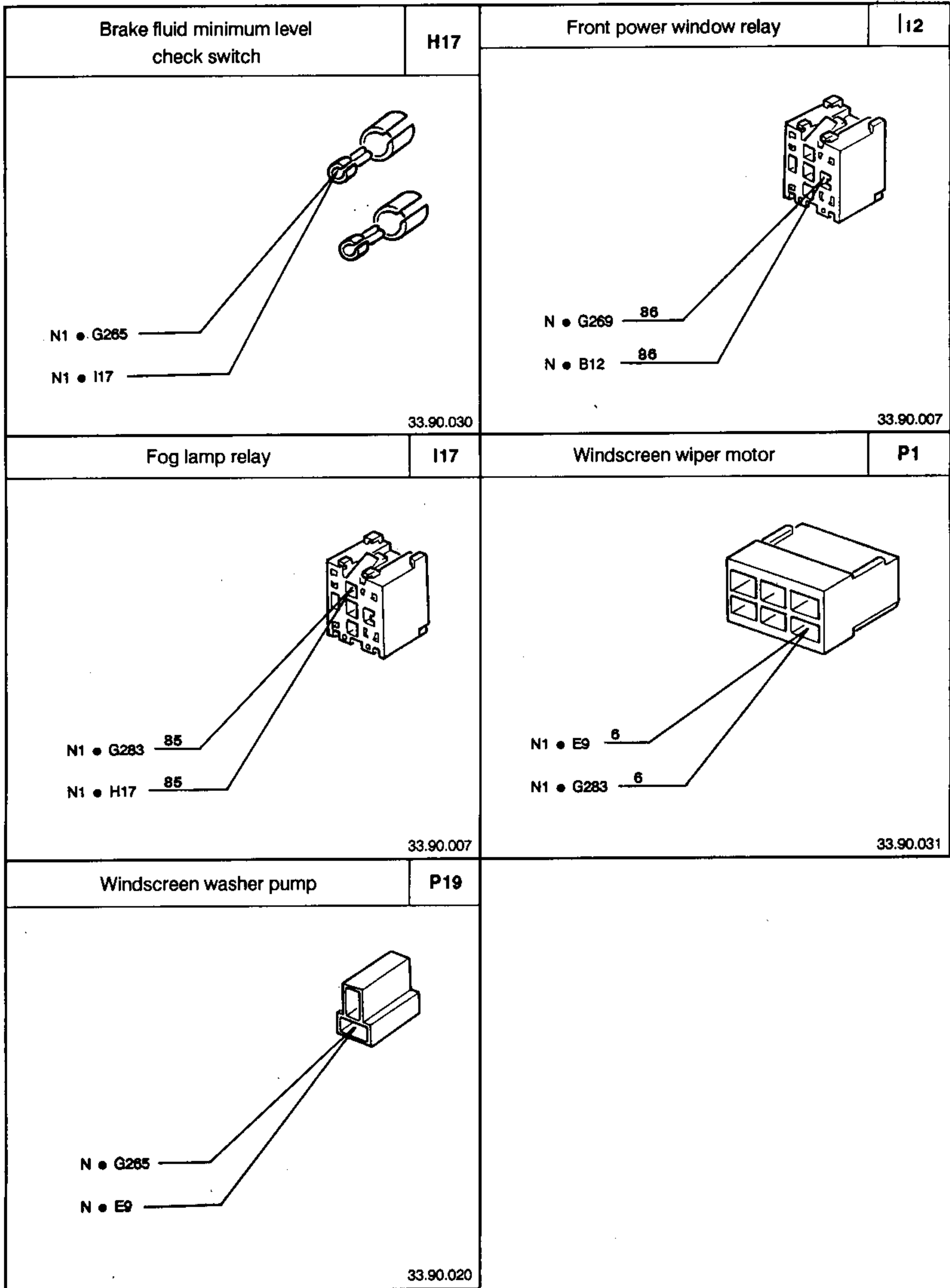
<p>Central fusebox</p>	<p>G95 F</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N • N22 10</p> <p>N • B12 10</p> <p>AN • B68 D 5</p> <p>2 A • B68 A</p> <p>4 BN1 • B68 A</p>		 <p>RN1 • B12 4</p> <p>R1 • B12 3</p> <p>SB1 • B9 2</p> <p>1 N1,5 • G283</p> <p>2 SB • N22</p>	
<p>33.90.005</p>		<p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 H</p>	<p>Central fusebox</p>	<p>G95 I</p>
 <p>AN • C10 B 7</p> <p>M1,5 • B1 2</p>		 <p>A • G99b 11</p> <p>A • G265 11</p> <p>AN • G99b 10</p> <p>AN • E9 10</p>	
<p>33.90.004</p>		<p>33.90.004</p>	
<p>Connector for engine dashboard B</p>	<p>G99b</p>	<p>Central service compartment earth</p>	<p>G143</p>
 <p>AN • G95 I 1</p> <p>A • G95 I 2</p> <p>1 AN • E1</p> <p>2 A • E1</p>		 <p>N10 • A1 (-)</p>	
<p>33.90.016</p>		<p>33.90.001</p>	

ELECTRICAL SYSTEM

<p>Front right under-wing wiring connector</p>	<p>G265</p>	<p>Eart on cylinder block (from right services)</p>	<p>G267</p>
 <p>N1 • H17 C A • G95 I A</p> <p>C N • P19 A A • E9</p> <p>33.90.029</p>		 <p>N1,5 • E8 N1,5 • P2</p> <p>33.90.014</p>	
<p>Earth on cylinder block (from left services)</p>	<p>G267</p>	<p>Glove compartment lamp connection</p>	<p>G269</p>
 <p>N1 • E10 N1,5 • E8</p> <p>33.90.014</p>		 <p>N • I12 2 N • C10 B 2</p> <p>33.90.013</p>	
<p>Earth on left service compartment</p>	<p>G283</p>	<p>Earth on left service compartment</p>	<p>G283</p>
 <p>N1,5 • G95 G N1 • O4 N1,5 • Q18 N1,5 • G23</p> <p>33.90.001</p>		 <p>N1 • I17 N1 • P1</p> <p>33.90.014</p>	



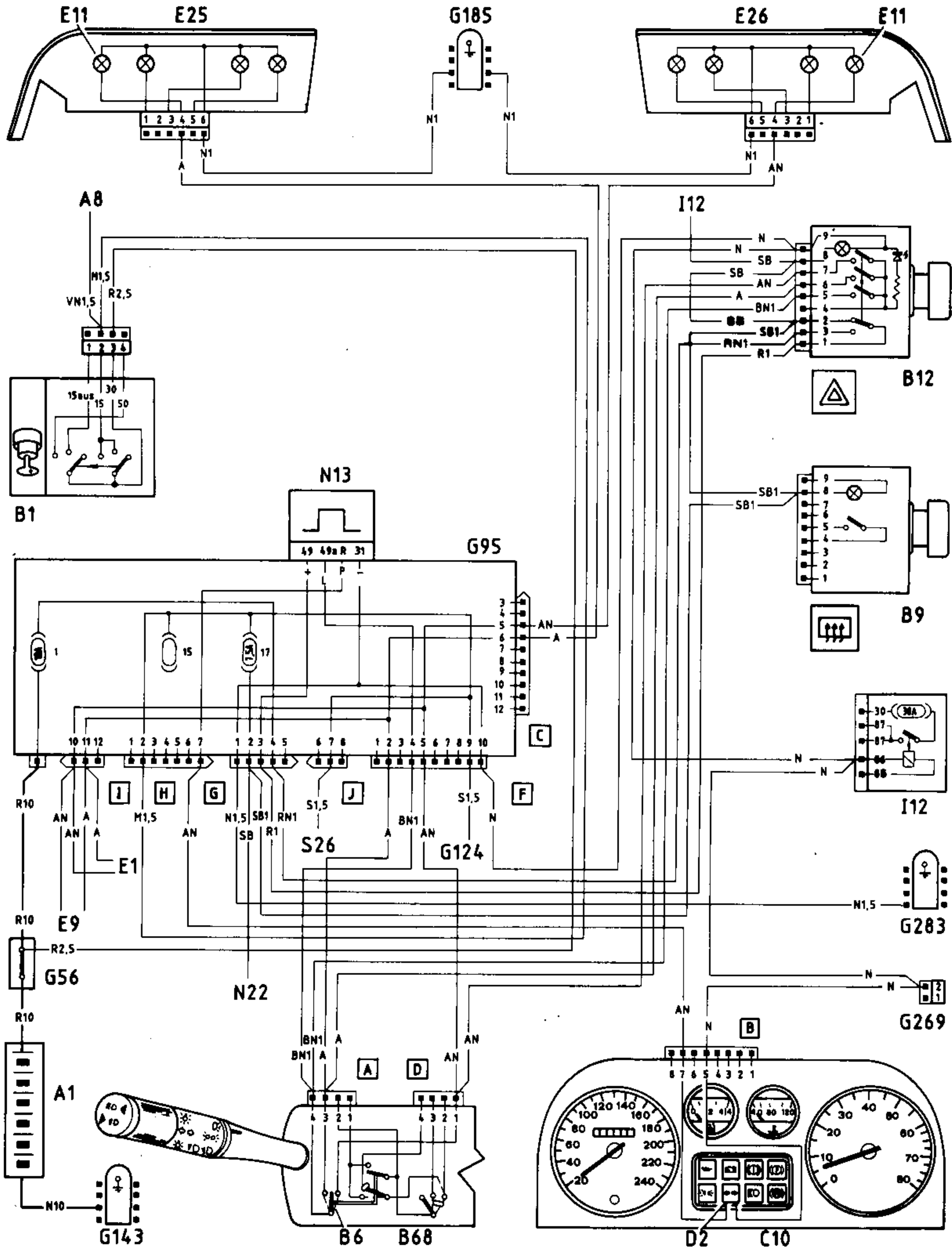
# ELECTRICAL SYSTEM



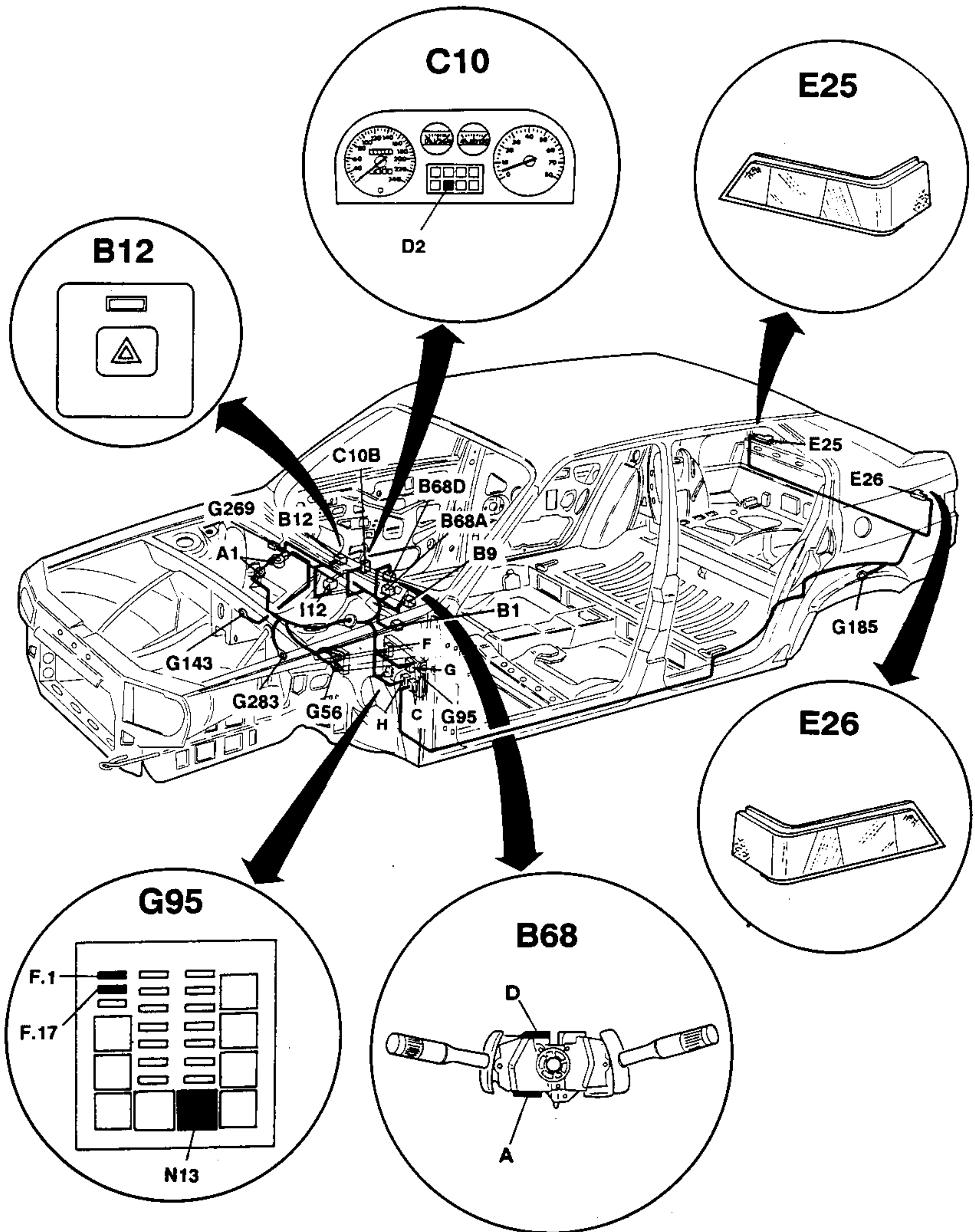
# ELECTRICAL SYSTEM

## DIRECTION INDICATORS - HAZARD WARNING LIGHTS (Rear)

### Wiring diagram

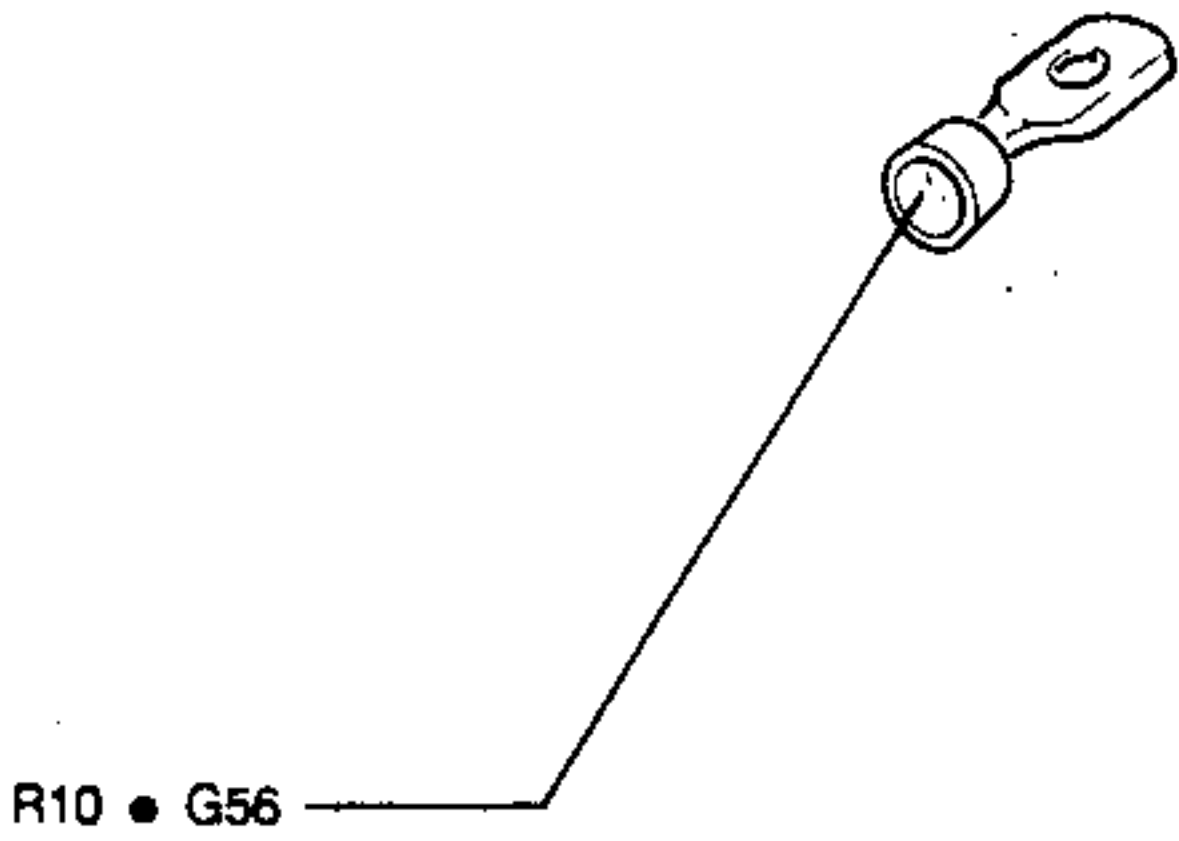
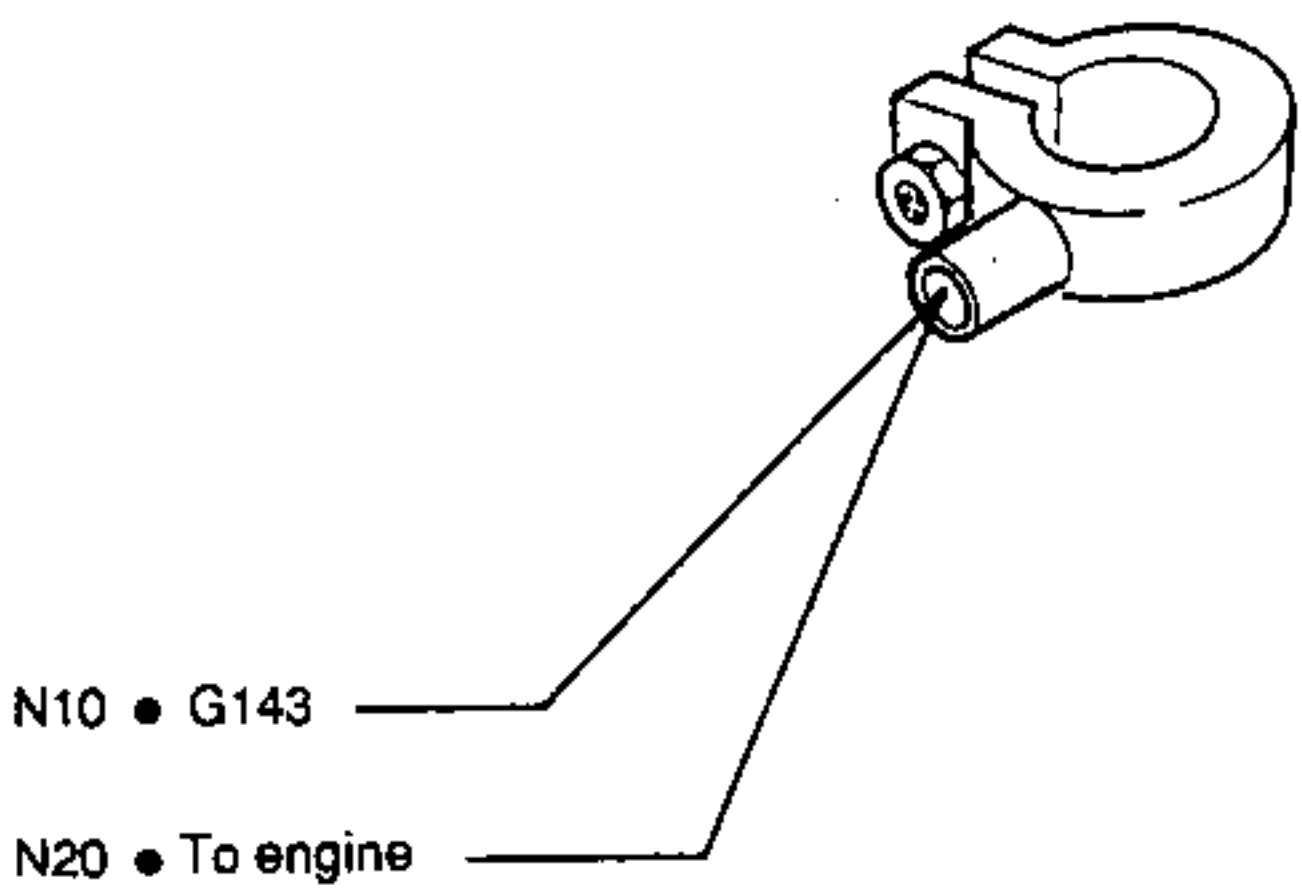
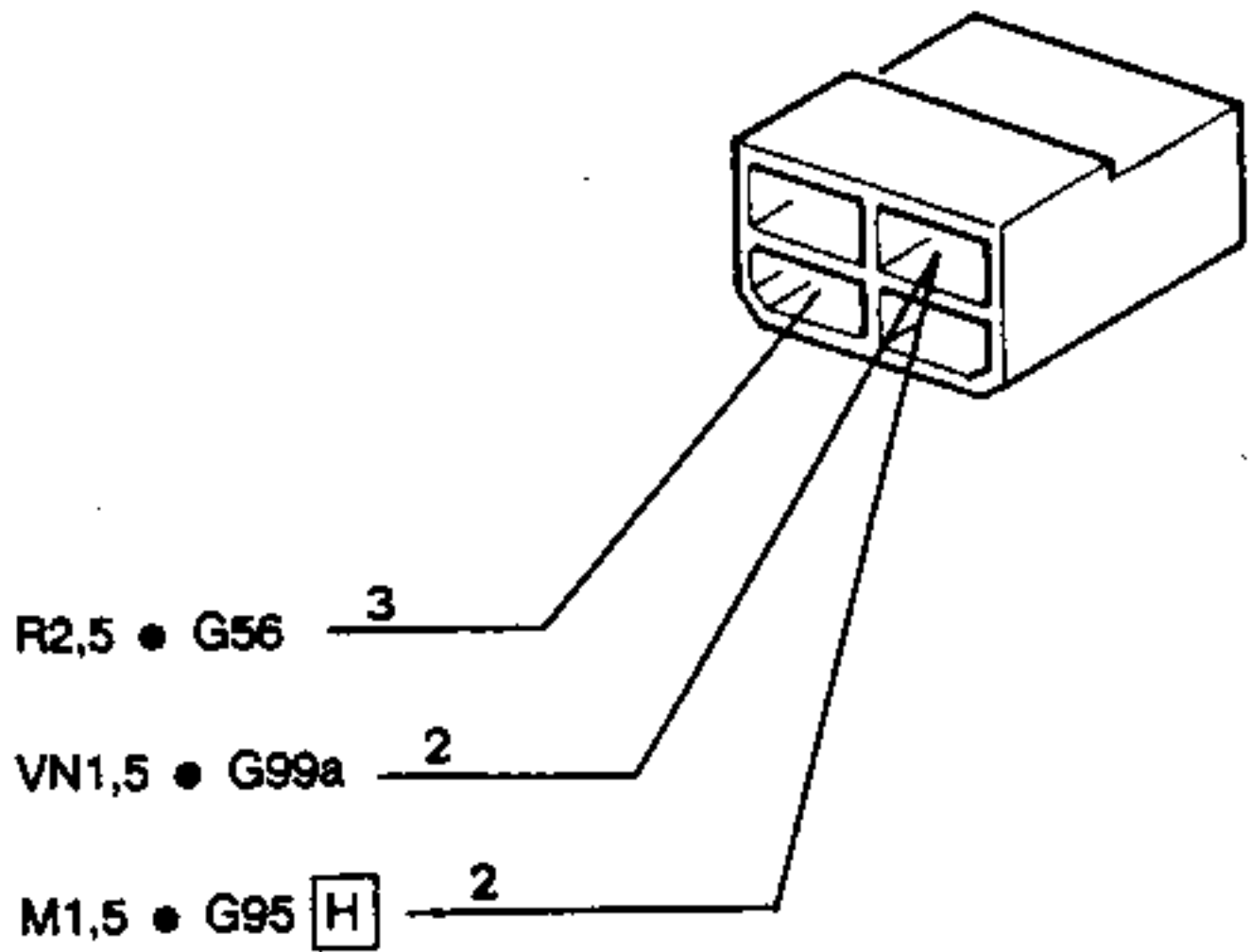
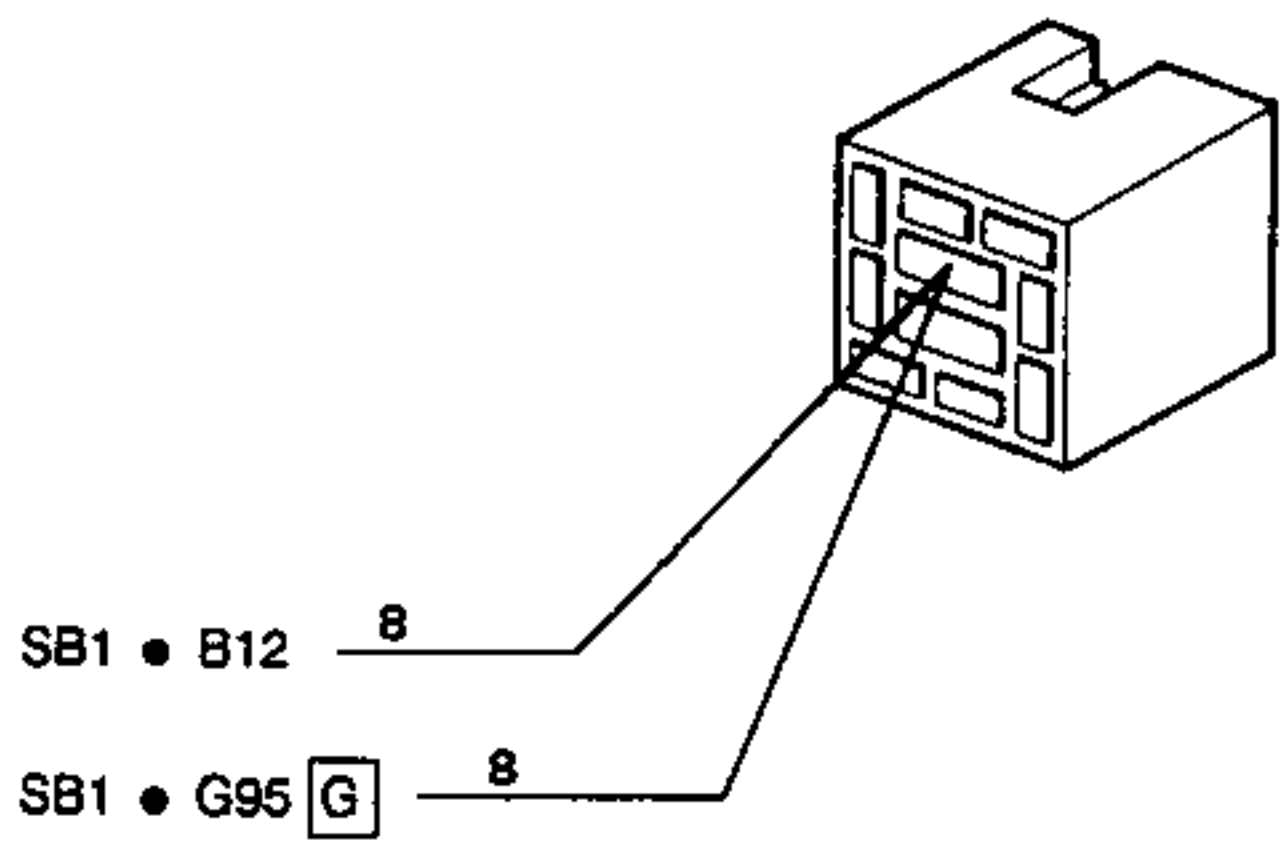
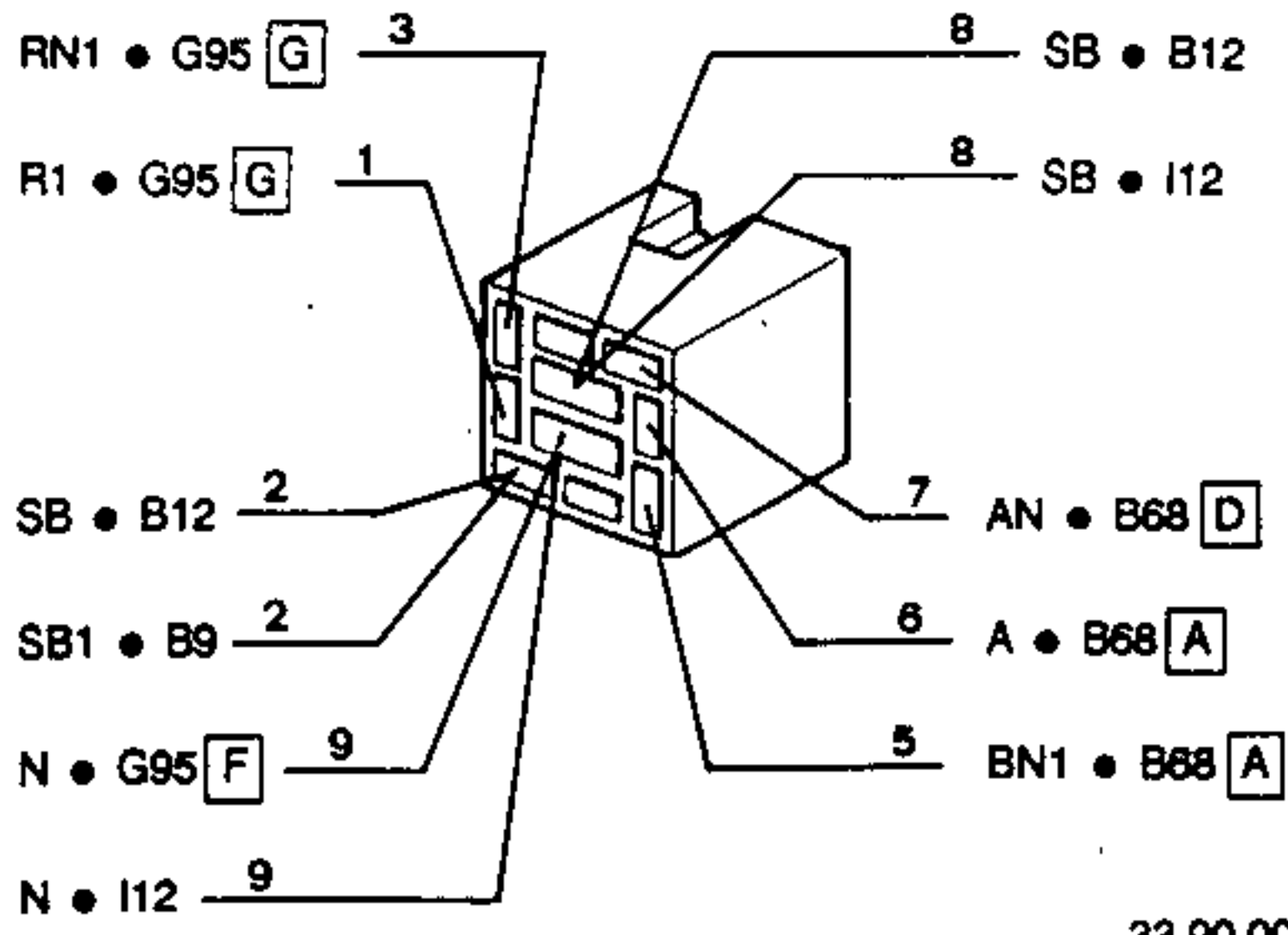
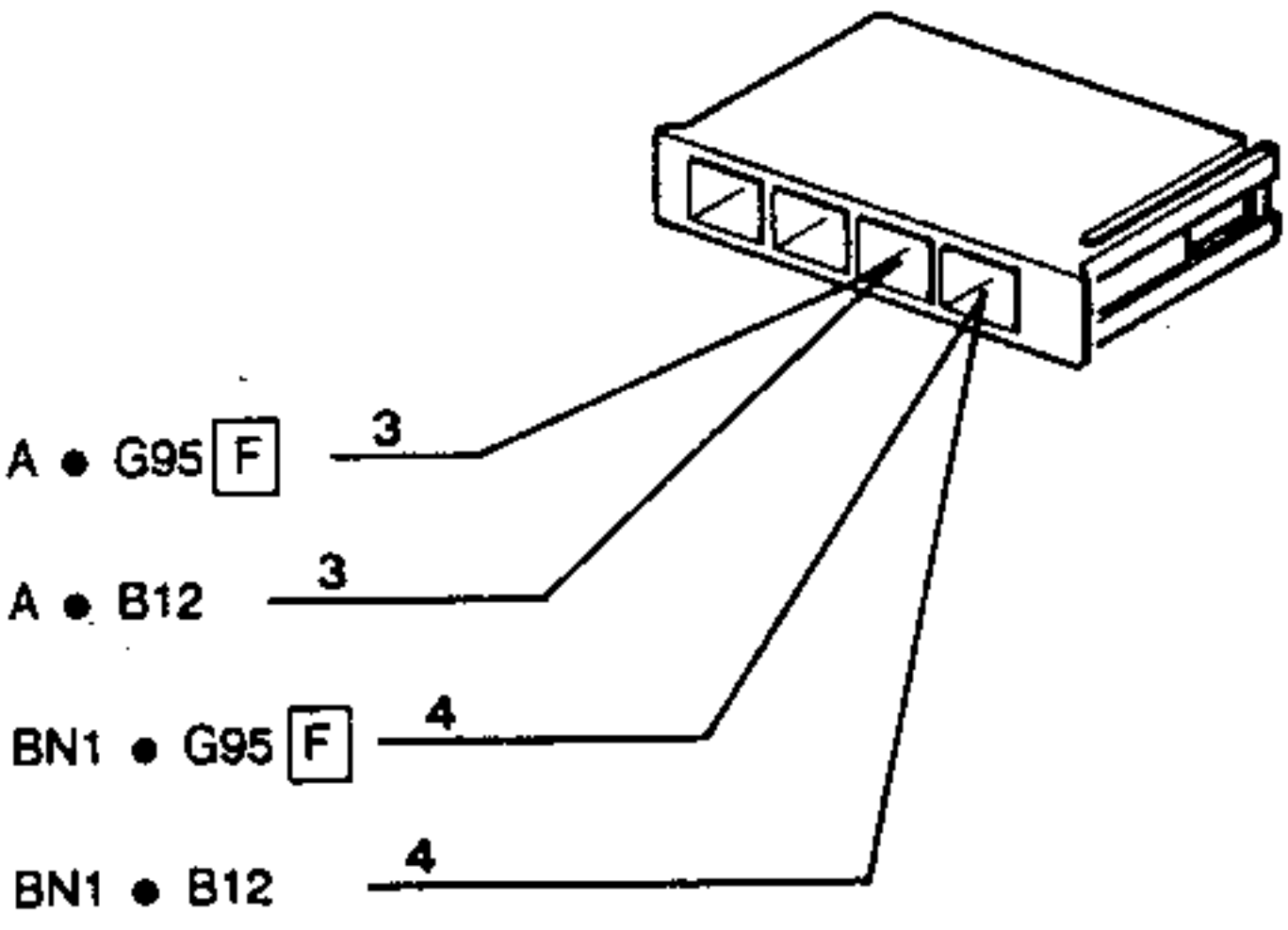


Wiring

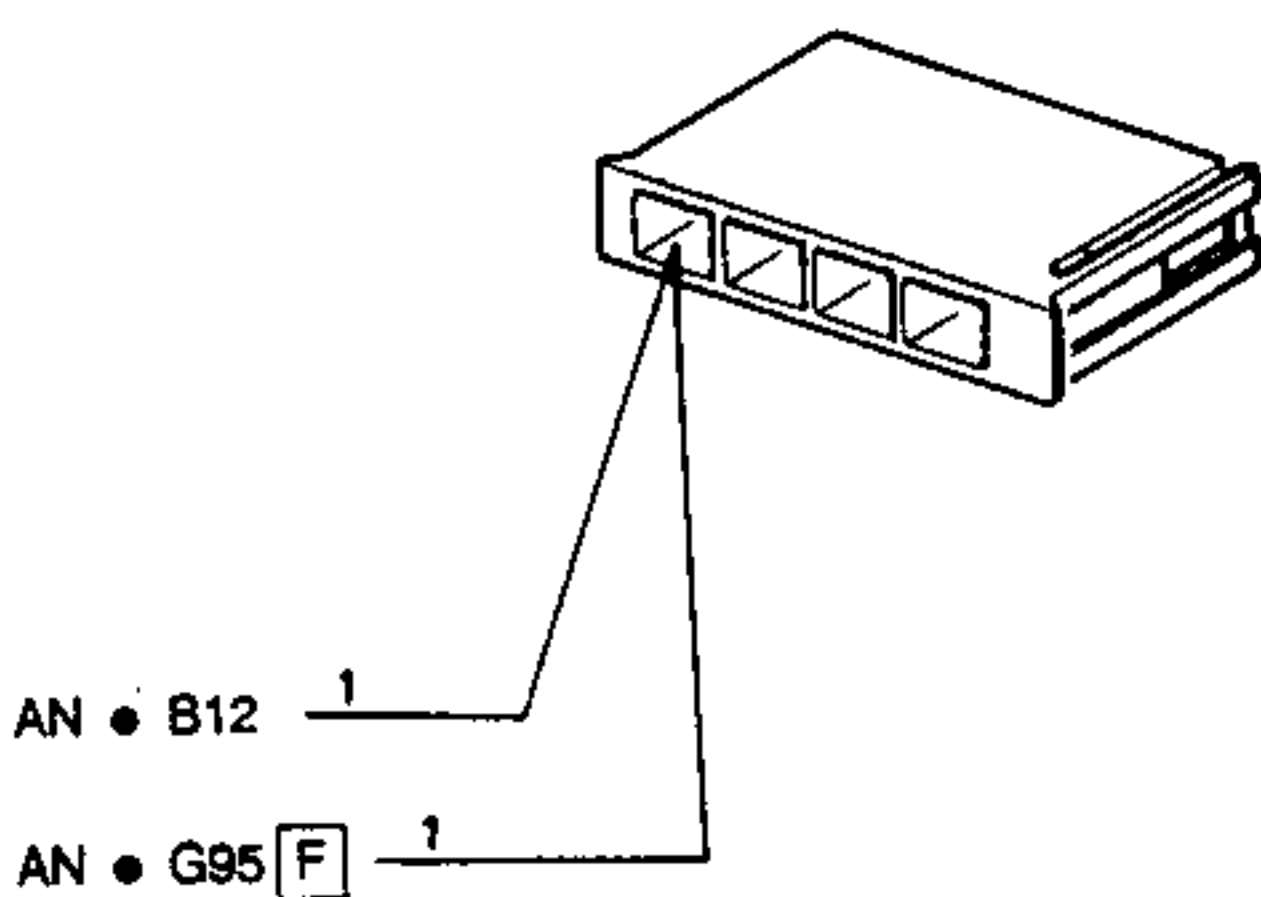
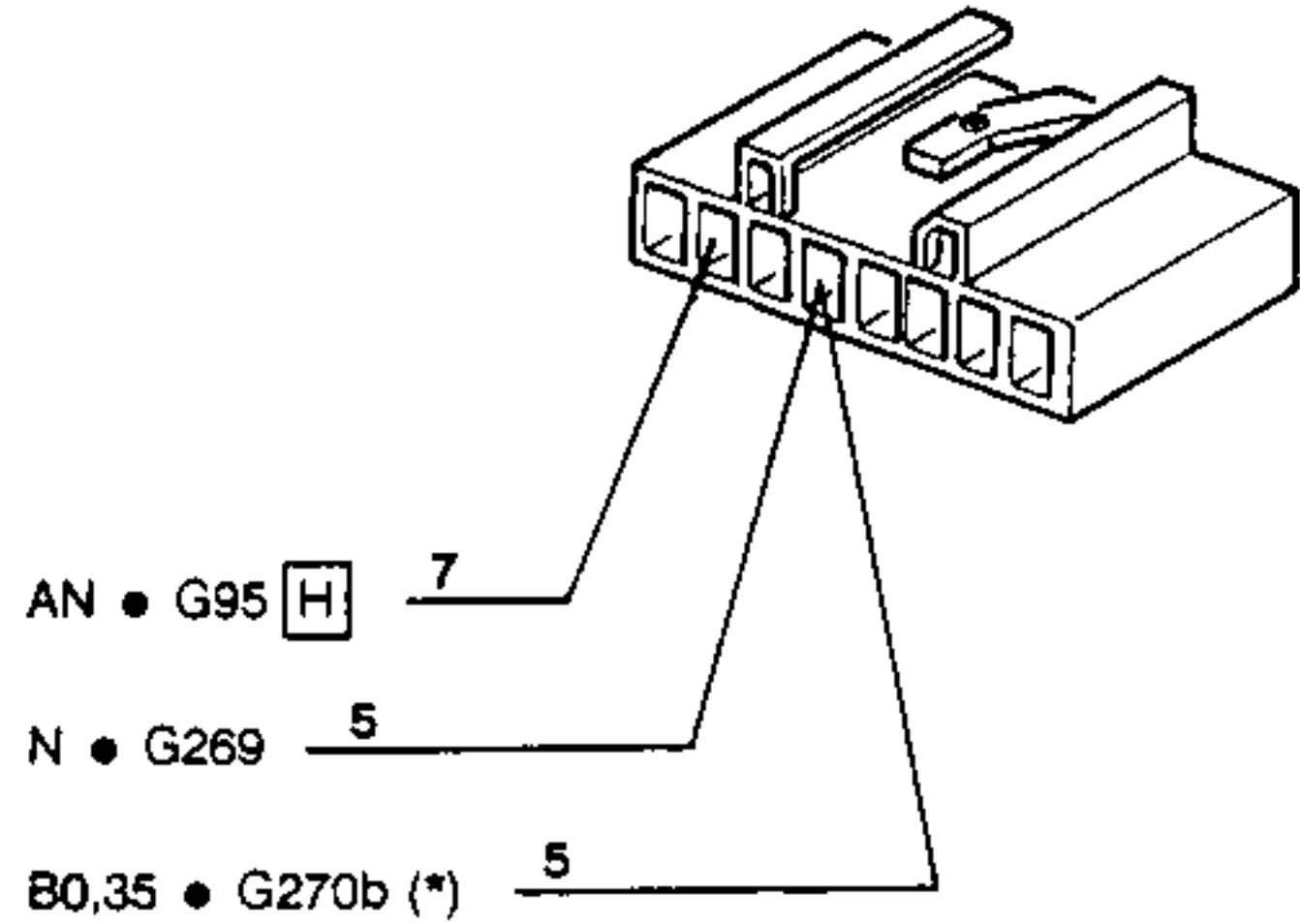
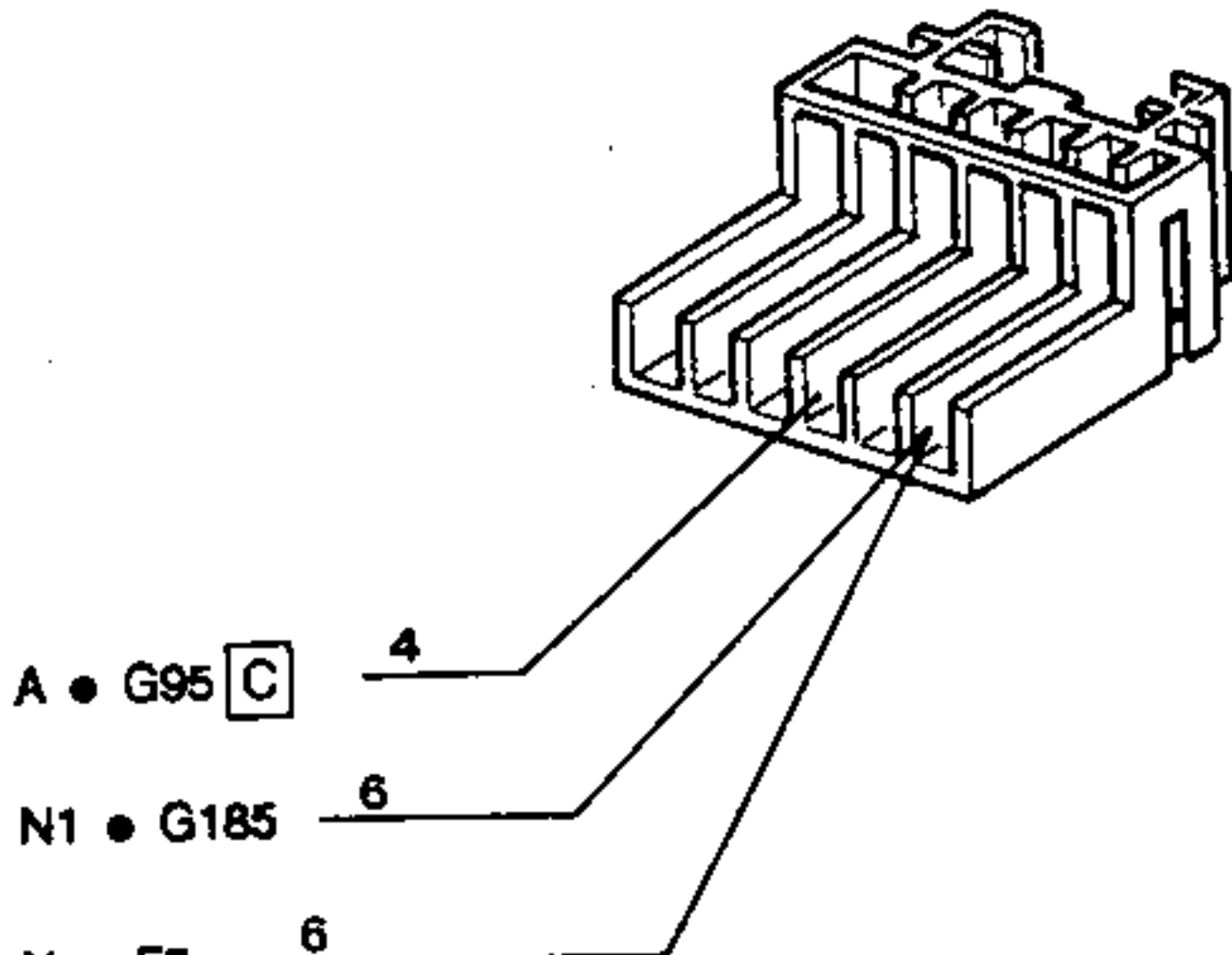
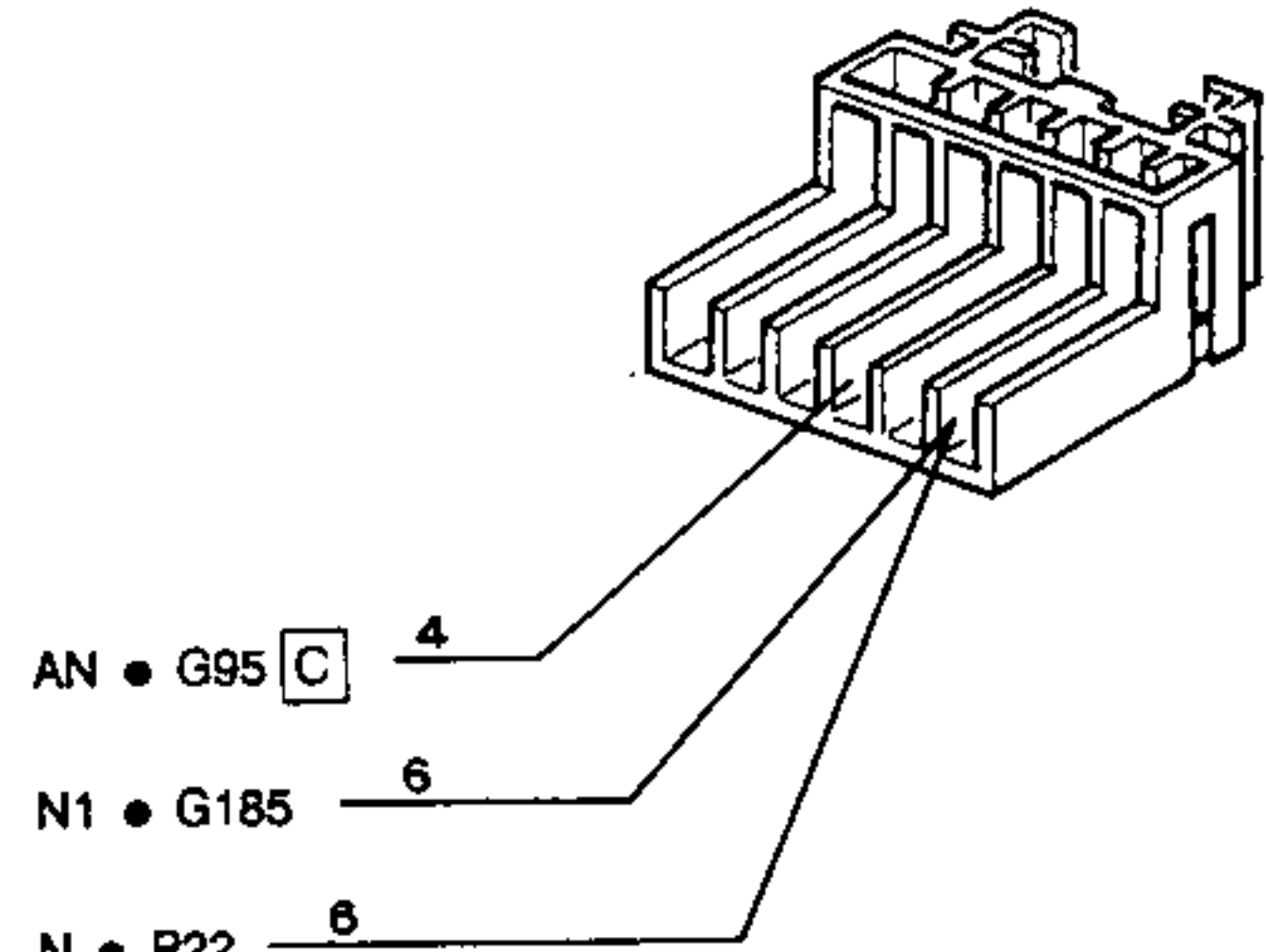
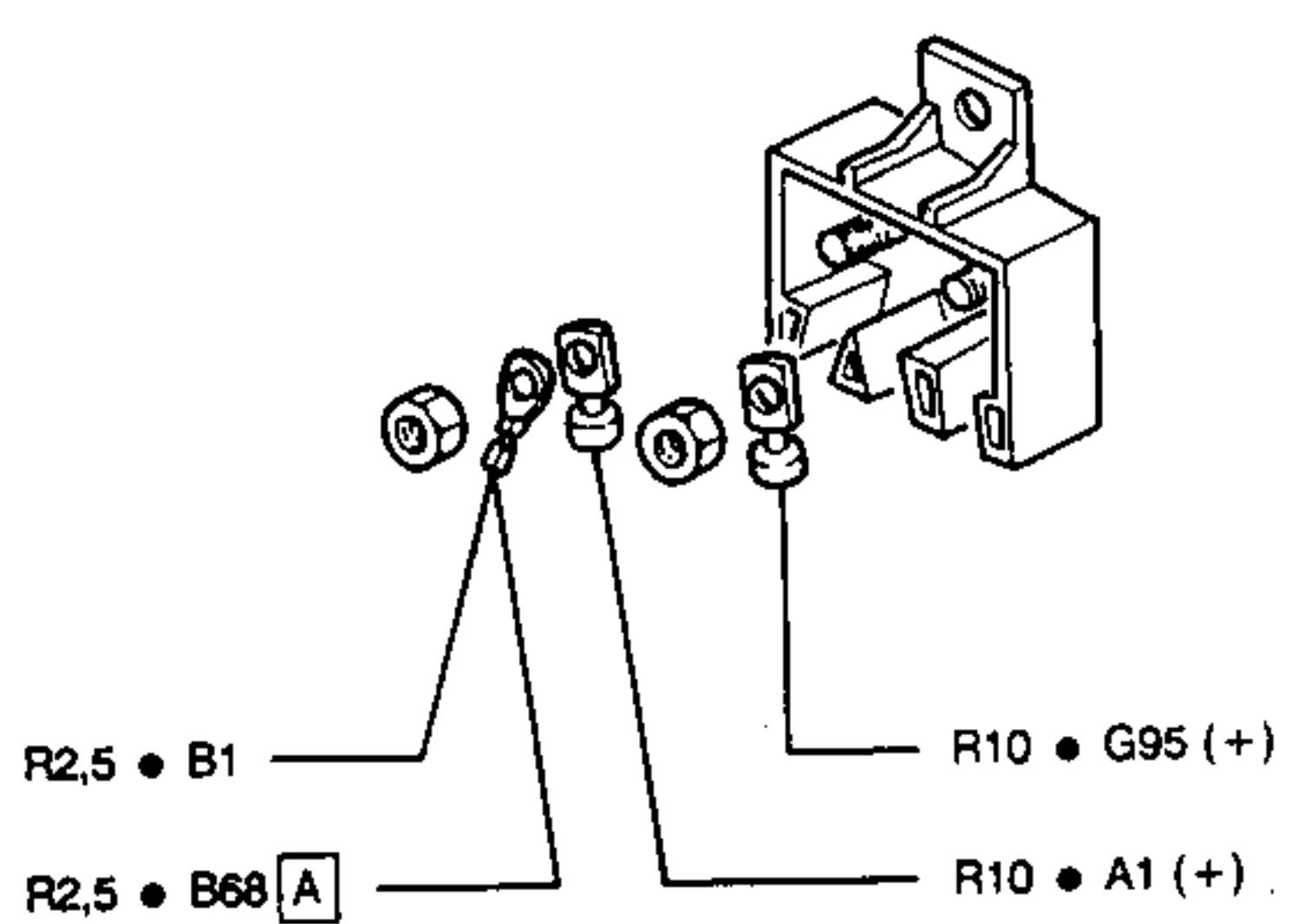
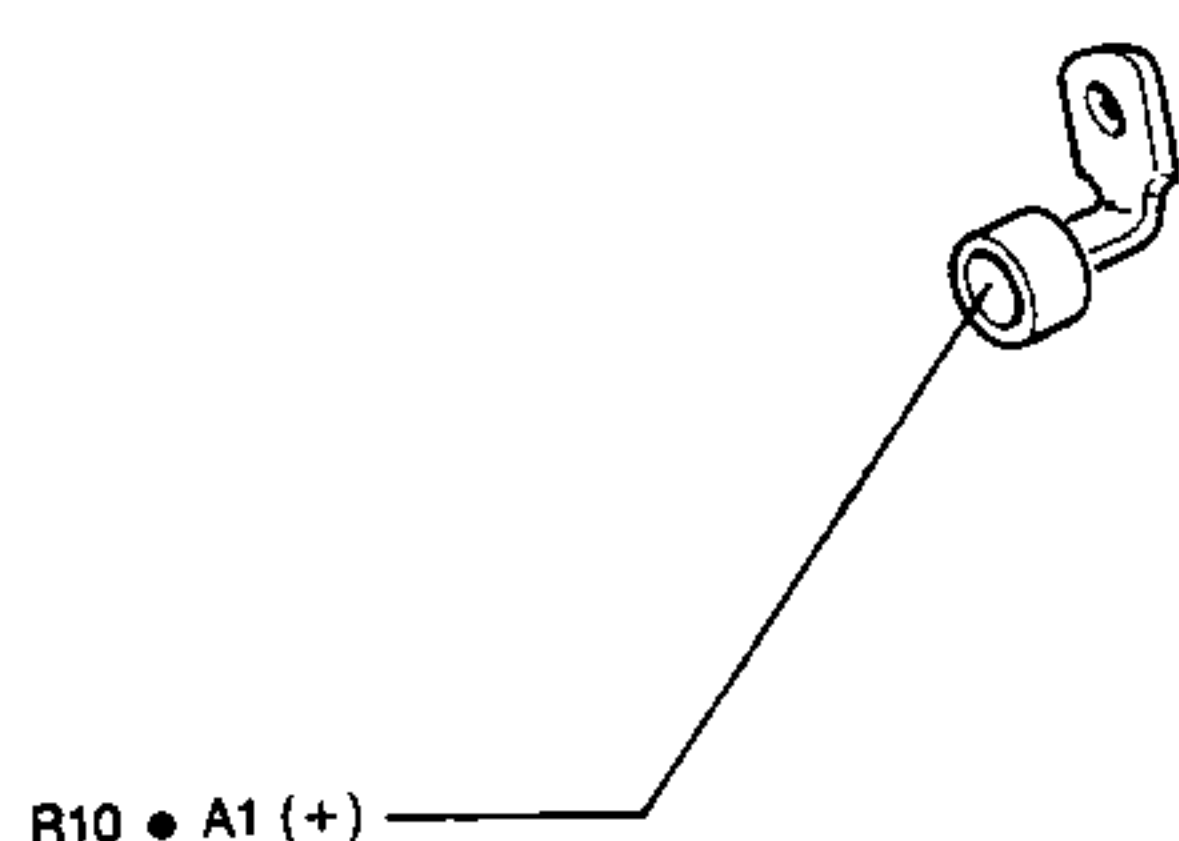


# ELECTRICAL SYSTEM

## Connectors

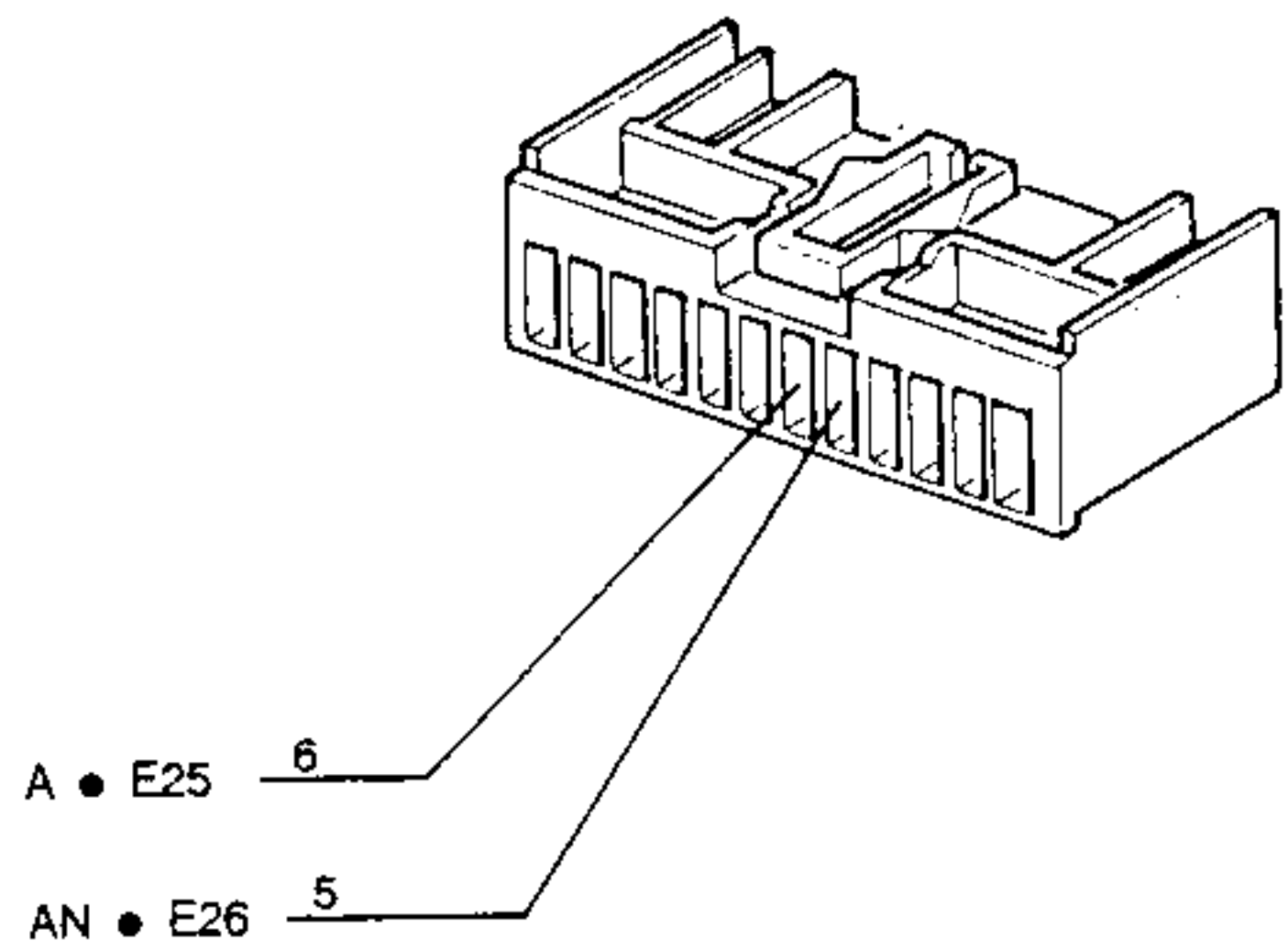
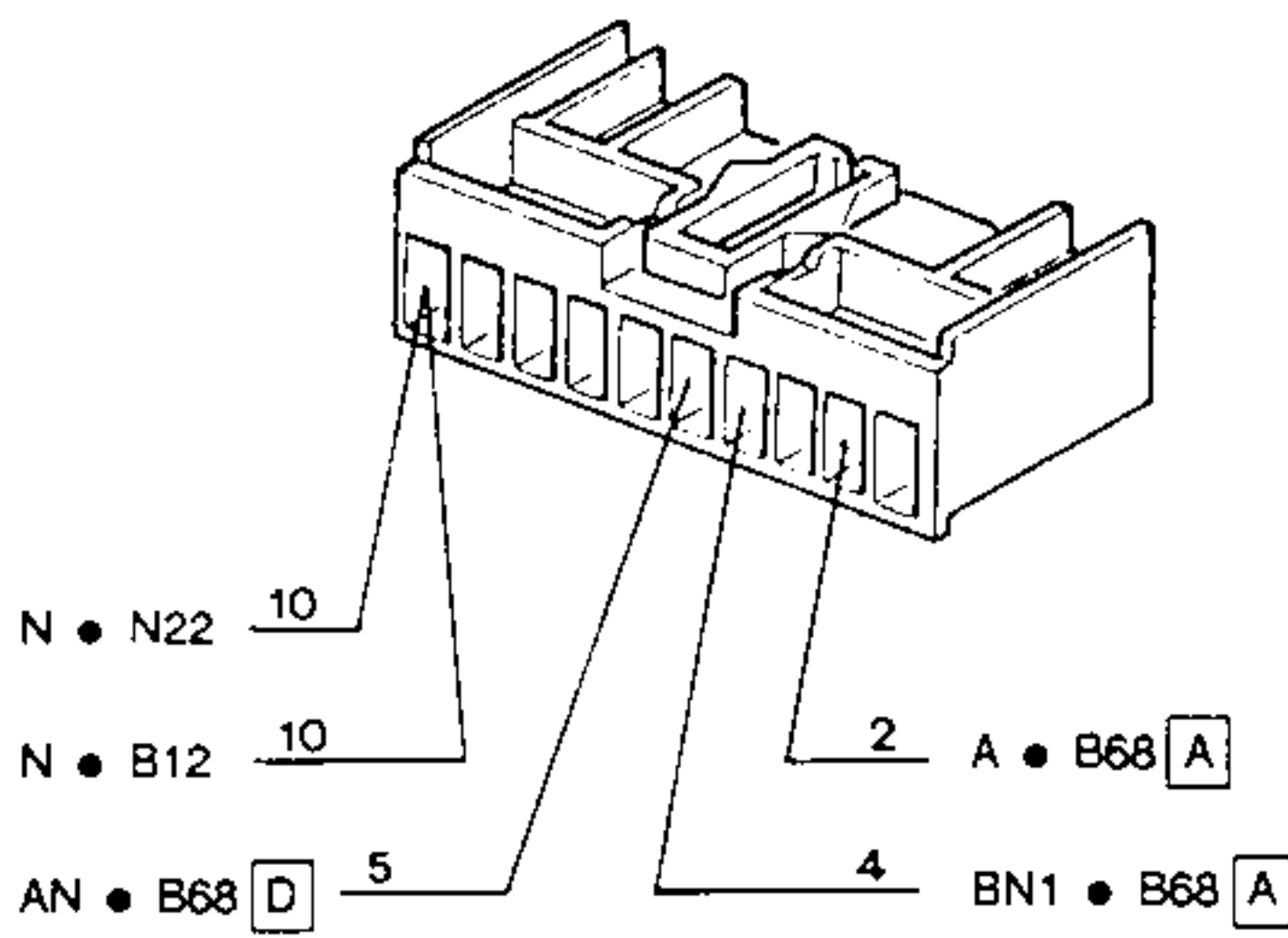
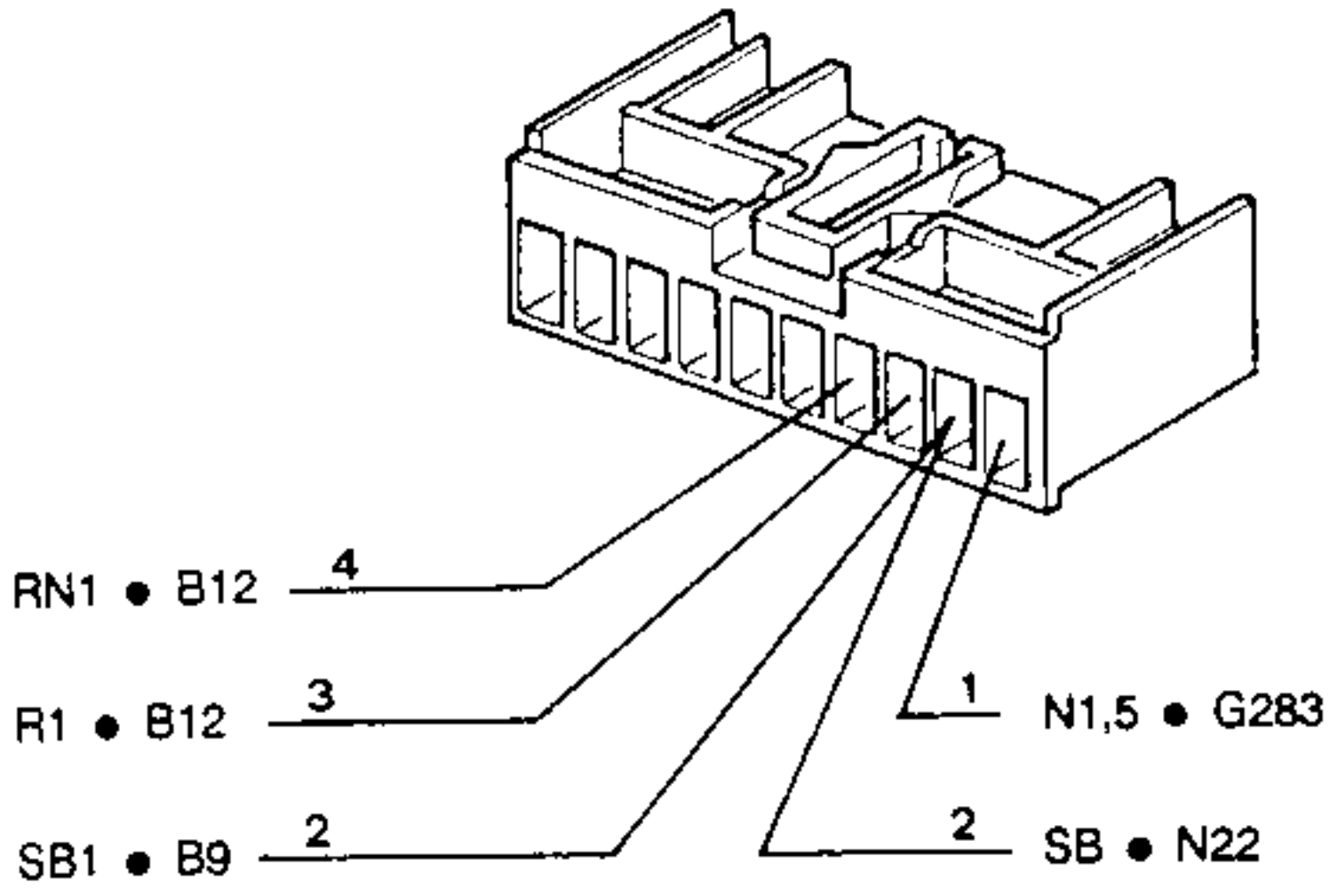
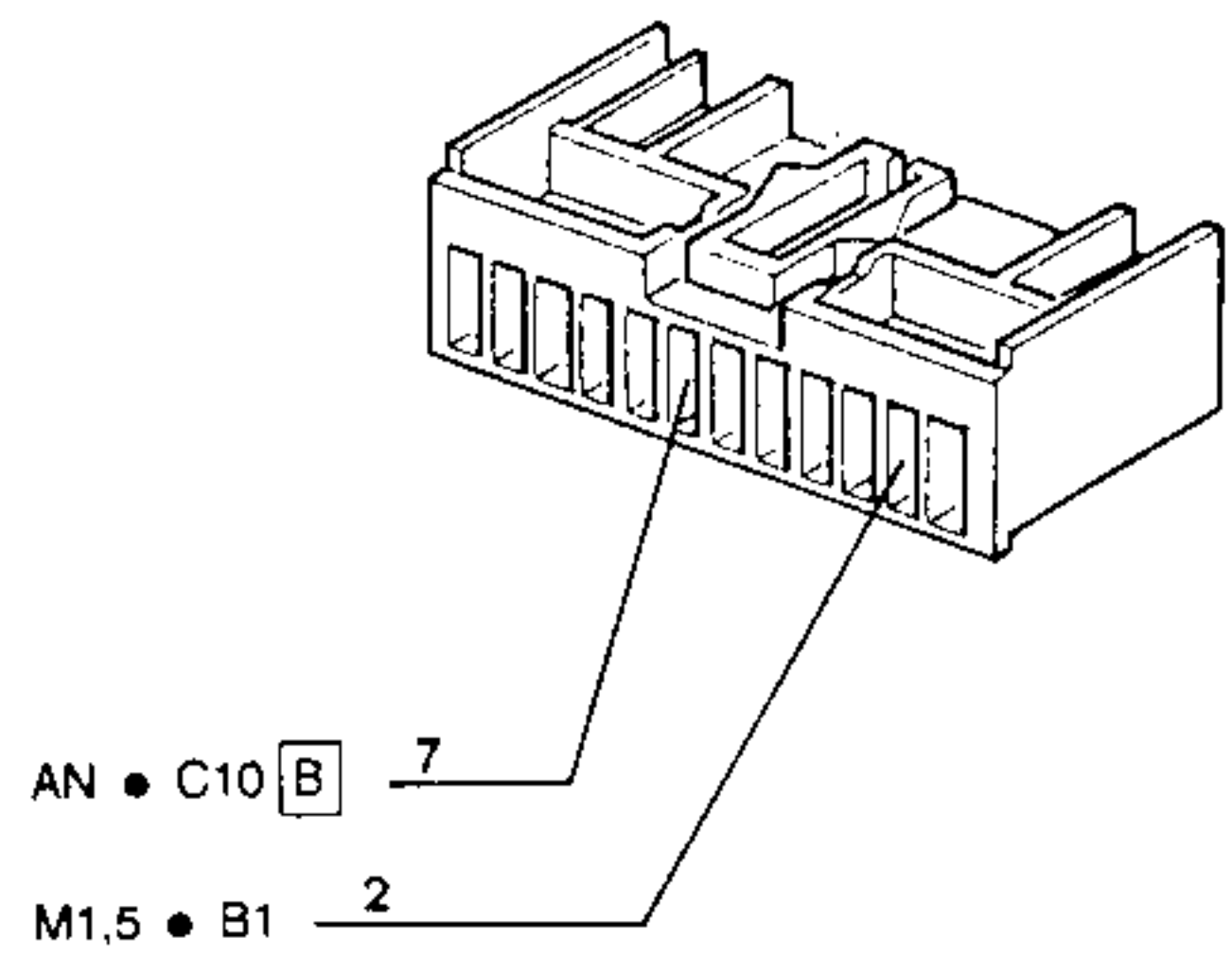
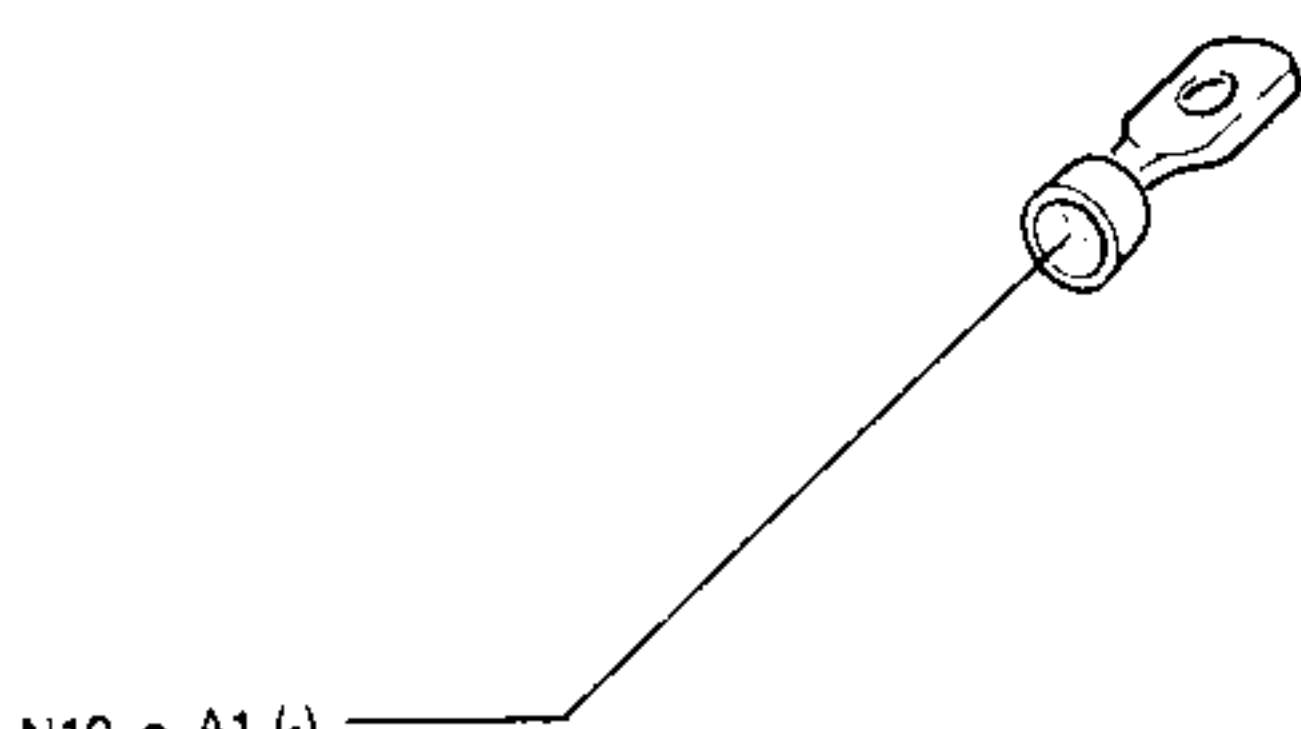
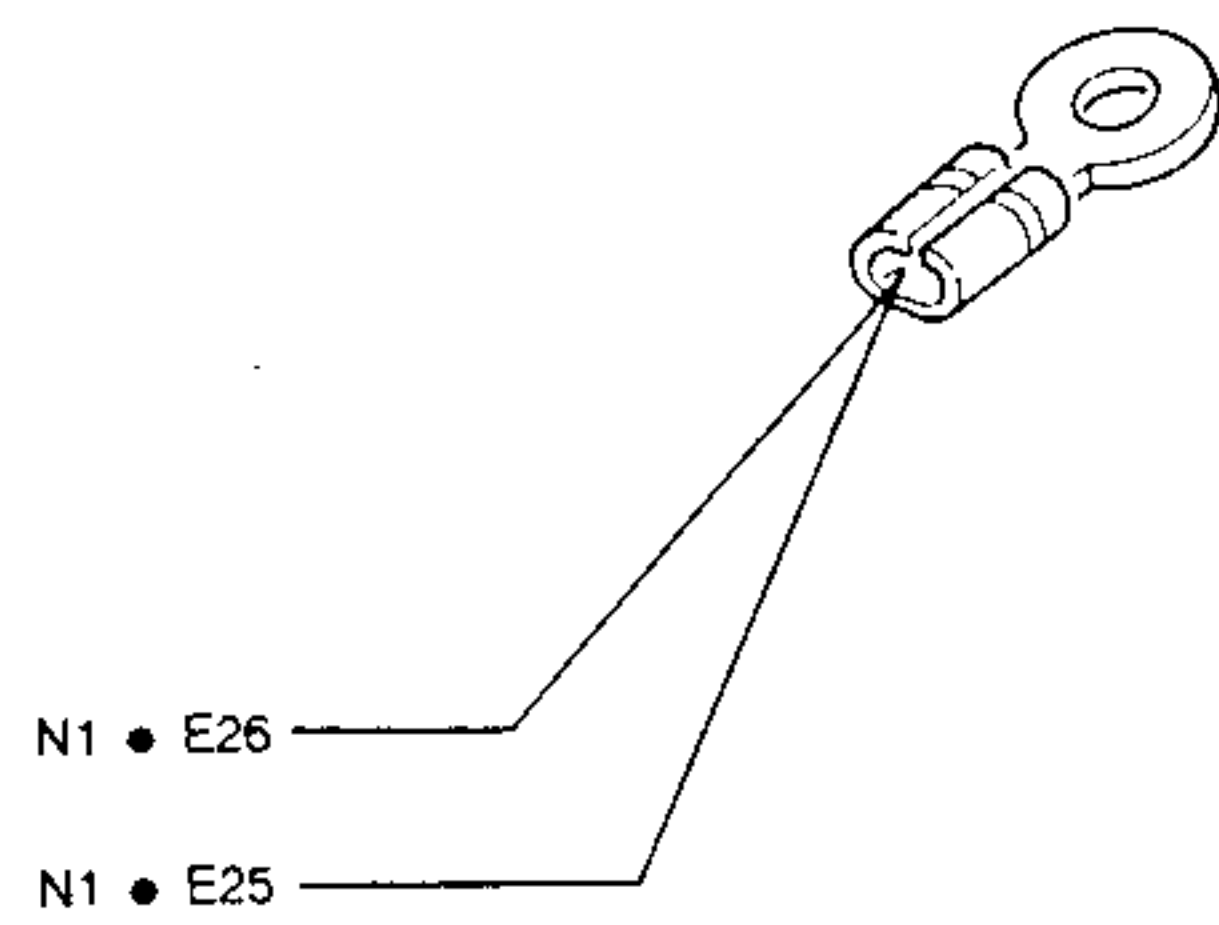
<b>Battery (+)</b>	<b>A1</b>	<b>Battery (-)</b>	<b>A1</b>
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
<b>Ignition switch</b>	<b>B1</b>	<b>Heated rear window control</b>	<b>B9</b>
 <p>R2,5 • G56 — 3 VN1,5 • G99a — 2 M1,5 • G95 [H] — 2</p>		 <p>SB1 • B12 — 8 SB1 • G95 [G] — 8</p>	
33.90.028		33.90.008	
<b>Hazard warning light switch</b>	<b>B12</b>	<b>Turn signal switch unit</b>	
 <p>RN1 • G95 [G] — 3 R1 • G95 [G] — 1 SB • B12 — 2 SB1 • B9 — 2 N • G95 [F] — 9 N • I12 — 9 SB • B12 — 8 SB • I12 — 8 AN • B68 [D] — 7 A • B68 [A] — 6 BN1 • B68 [A] — 5</p>		 <p>A • G95 [F] — 3 A • B12 — 3 BN1 • G95 [F] — 4 BN1 • B12 — 4</p>	
33.90.008		33.90.027	

# ELECTRICAL SYSTEM

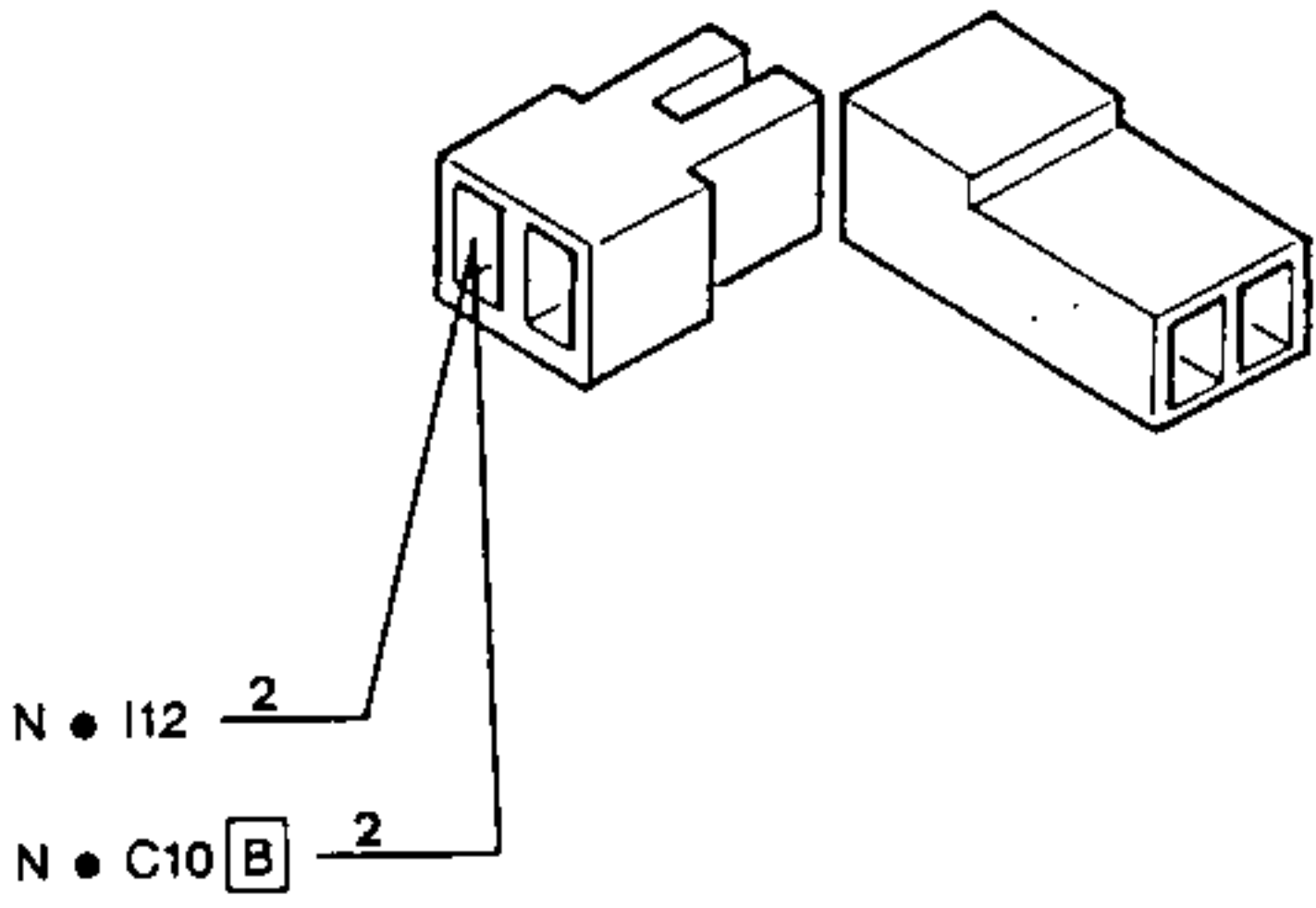
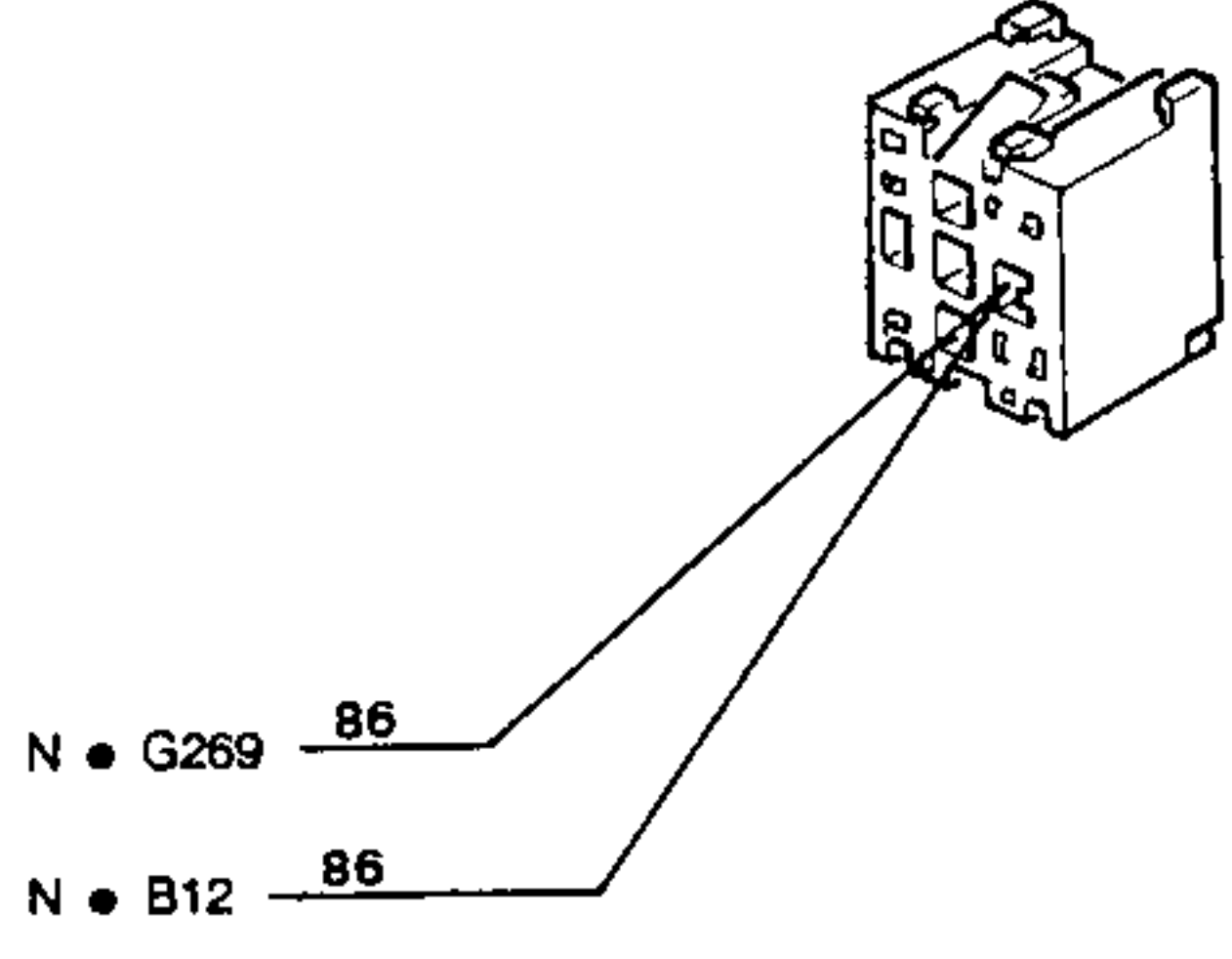
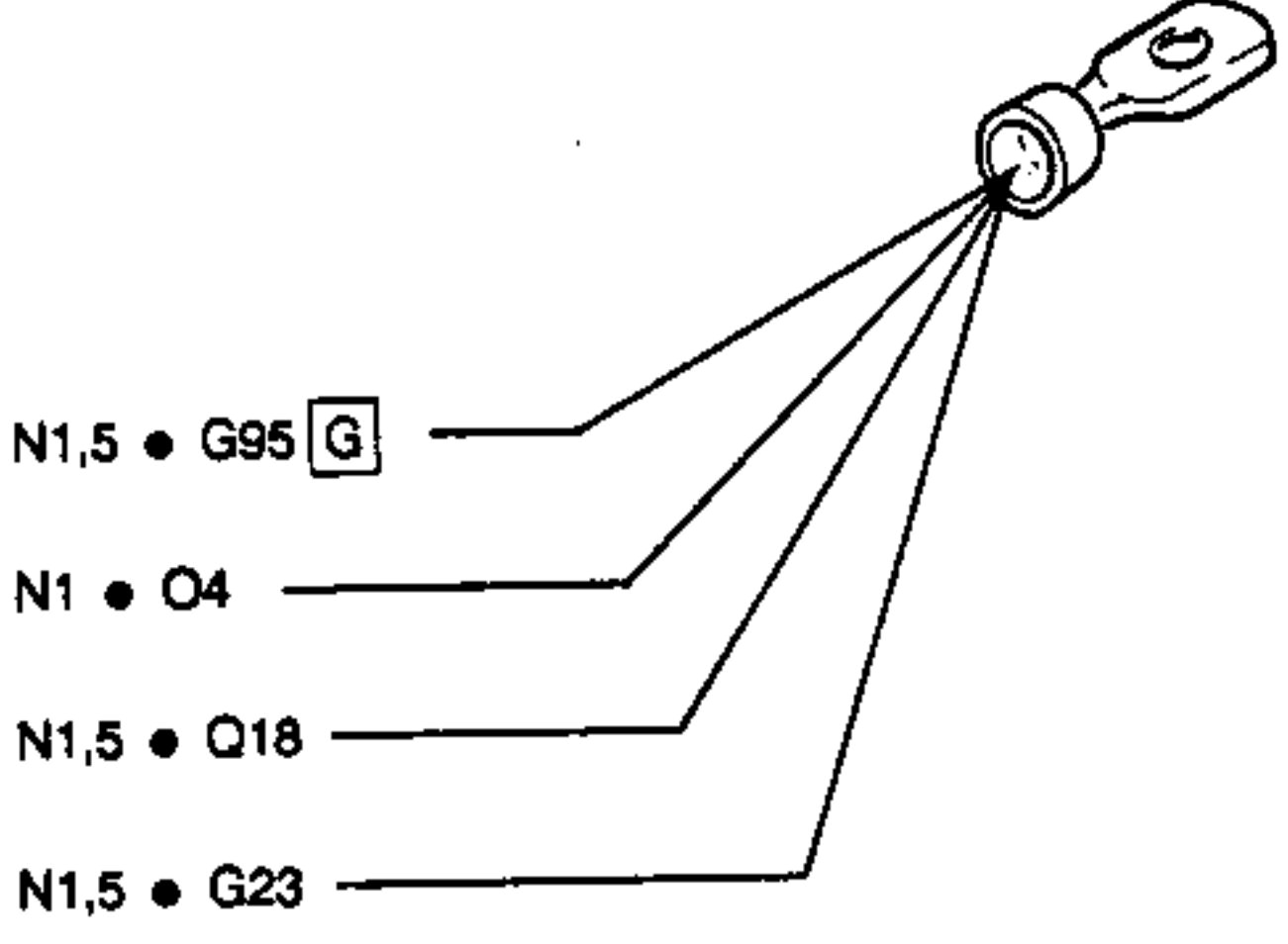
<p><b>Turn signal switch unit</b> <span style="float: right;"><b>B68 D</b></span></p>  <p style="text-align: right;">33.90.027</p>	<p><b>Instrument panel</b> <span style="float: right;"><b>C10 B</b></span></p>  <p style="text-align: right;">33.90.024</p>
<p><b>Right tail light</b> <span style="float: right;"><b>E25</b></span></p>  <p style="text-align: right;">33.90.033</p>	<p><b>Left tail light</b> <span style="float: right;"><b>E26</b></span></p>  <p style="text-align: right;">33.90.033</p>
<p><b>Branch terminal board</b> <span style="float: right;"><b>G56</b></span></p>  <p style="text-align: right;">33.90.011</p>	<p><b>Central fusebox (+)</b> <span style="float: right;"><b>G95</b></span></p>  <p style="text-align: right;">33.90.006</p>

(\*) Specific to 4x4 versions

ELECTRICAL SYSTEM

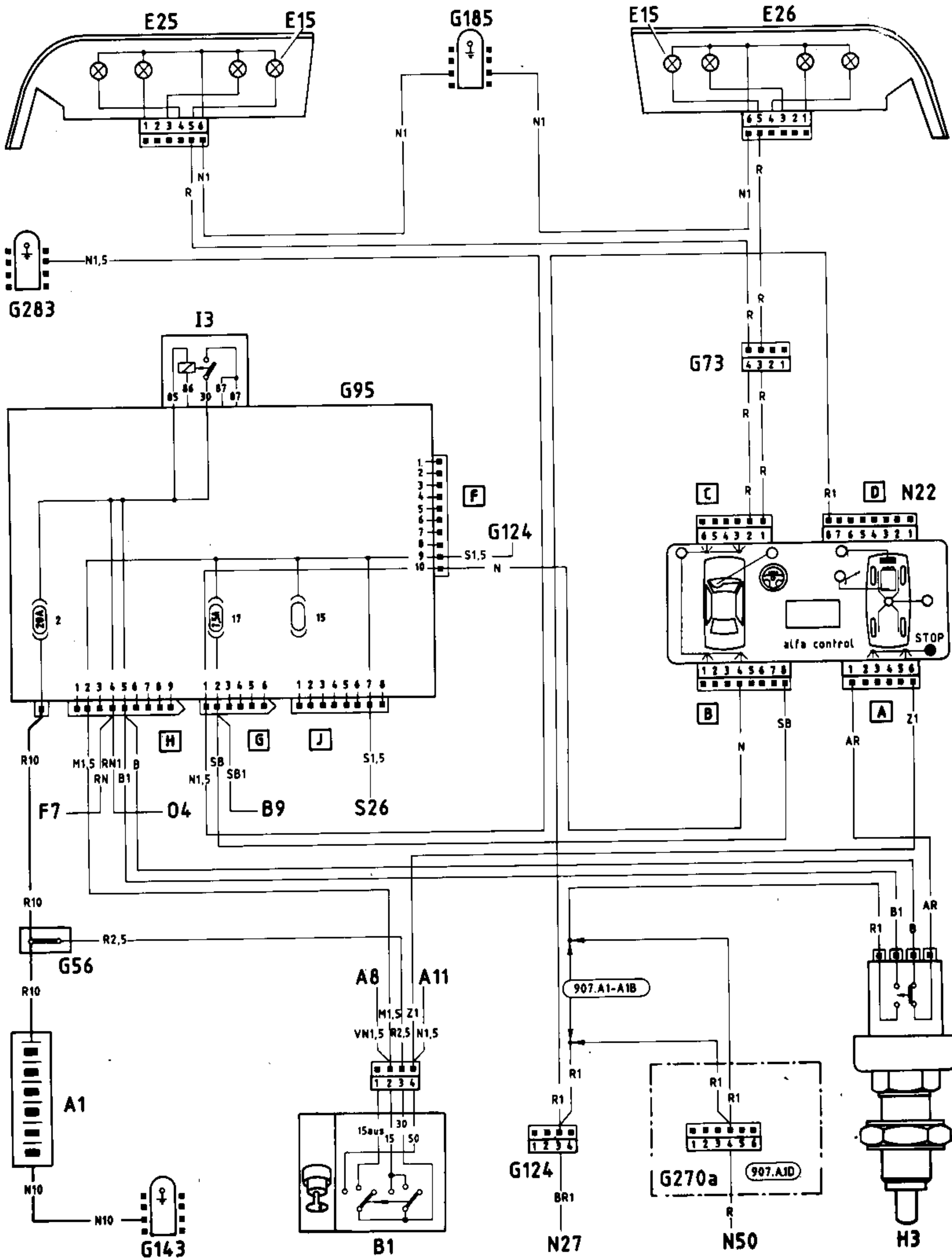
<p>Central fusebox</p>	<p>G95 C</p>	<p>Central fusebox</p>	<p>G95 F</p>
 <p>A • E25 6 AN • E26 5</p>		 <p>N • N22 10 N • B12 10 AN • B68 D 5 A • B68 A 2 BN1 • B68 A 4</p>	
<p>33.90.004</p>		<p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 G</p>	<p>Central fusebox</p>	<p>G95 H</p>
 <p>RN1 • B12 4 R1 • B12 3 SB1 • B9 2 N1,5 • G283 1 SB • N22 2</p>		 <p>AN • C10 B 7 M1,5 • B1 2</p>	
<p>33.90.005</p>		<p>33.90.004</p>	
<p>Central service compartment earth</p>	<p>G143</p>	<p>Luggage compartment earth - left side</p>	<p>G185</p>
 <p>N10 • A1 (-)</p>		 <p>N1 • E26 N1 • E25</p>	
<p>33.90.001</p>		<p>33.90.032</p>	

# ELECTRICAL SYSTEM

Glove compartment lamp connection	G269	Front power window relay	I12
 <p>N • I12 2</p> <p>N • C10 B 2</p> <p>33.90.013</p>	 <p>N • G269 86</p> <p>N • B12 86</p> <p>33.90.007</p>		
Earth on left service compartment	G283		
 <p>N1,5 • G95 G</p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p>33.90.001</p>			

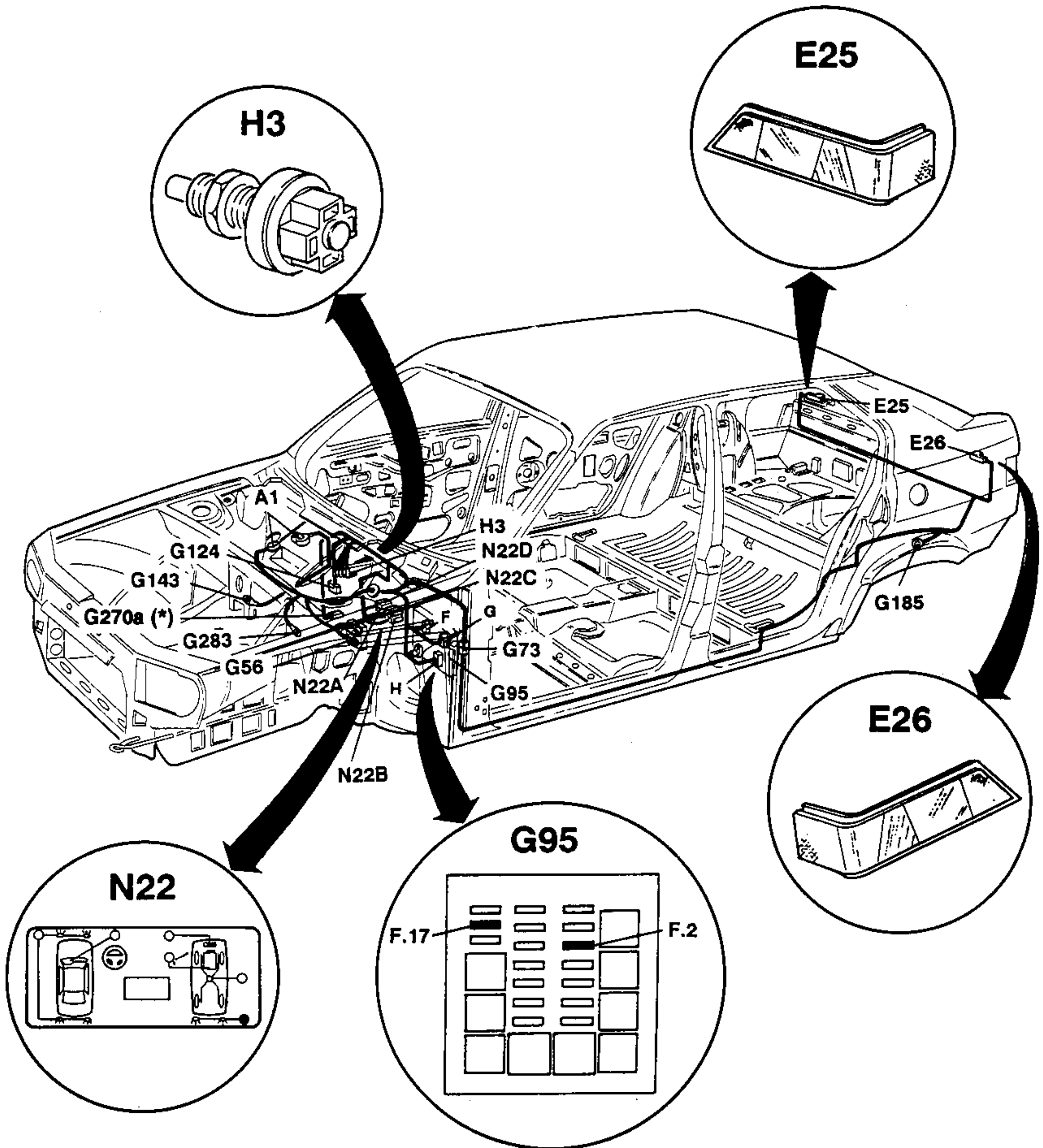
STOP LIGHTS

Wiring diagram





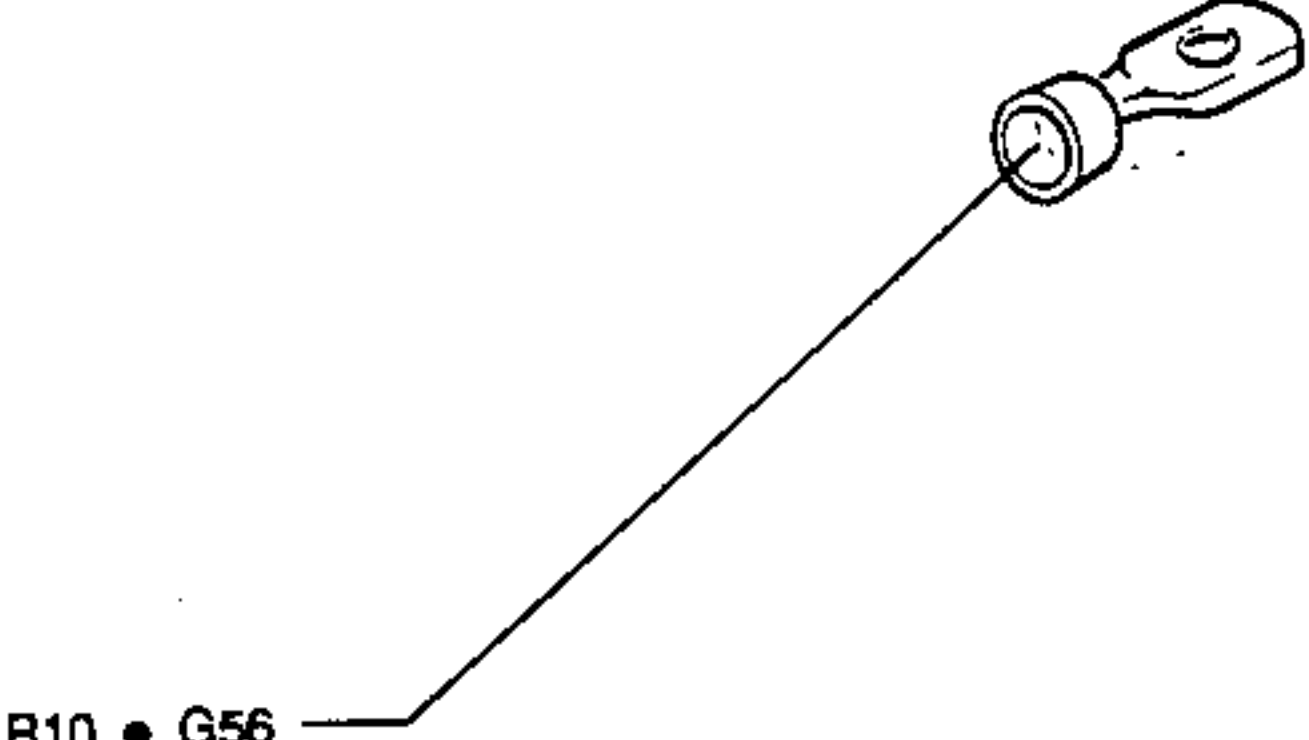
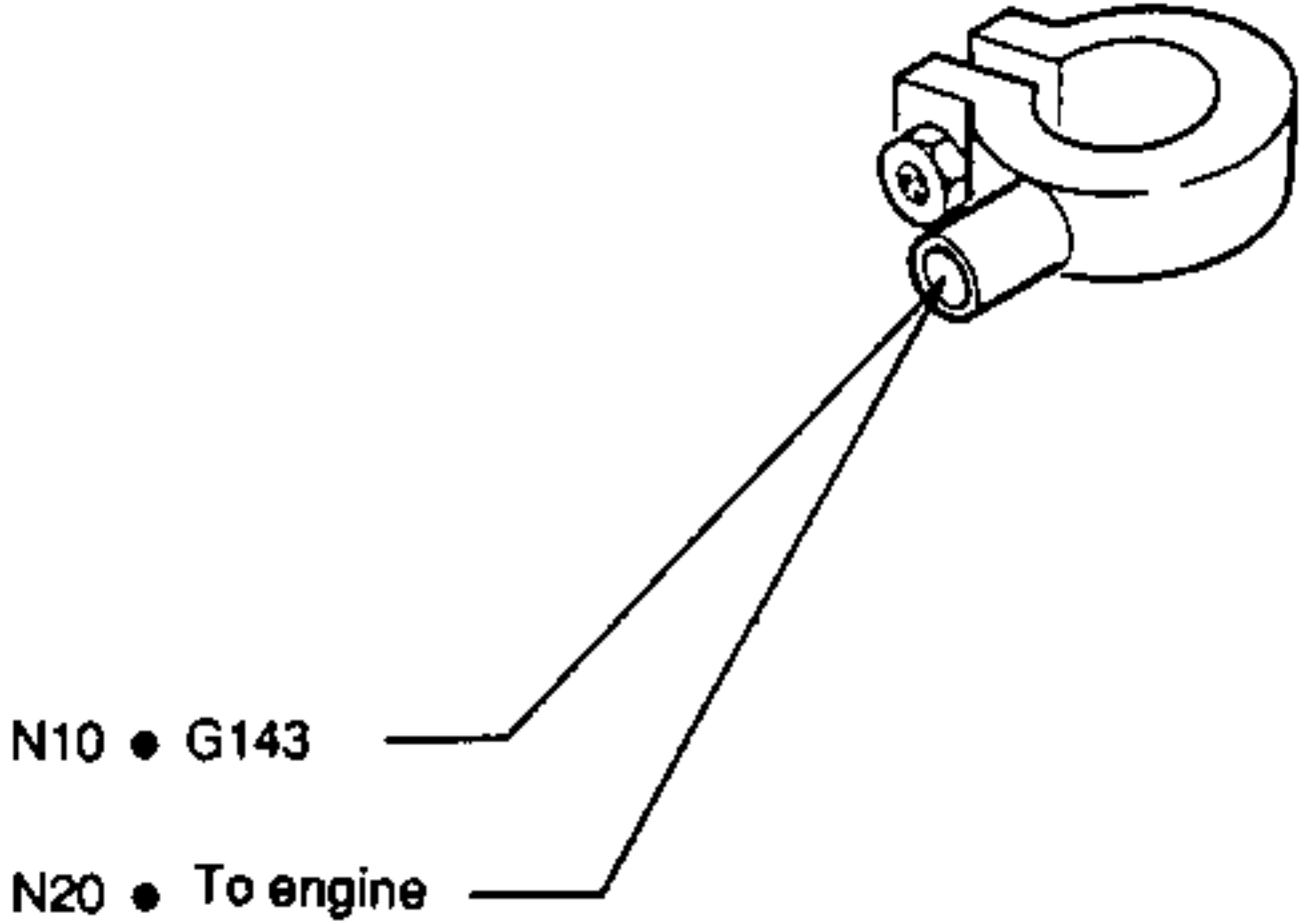
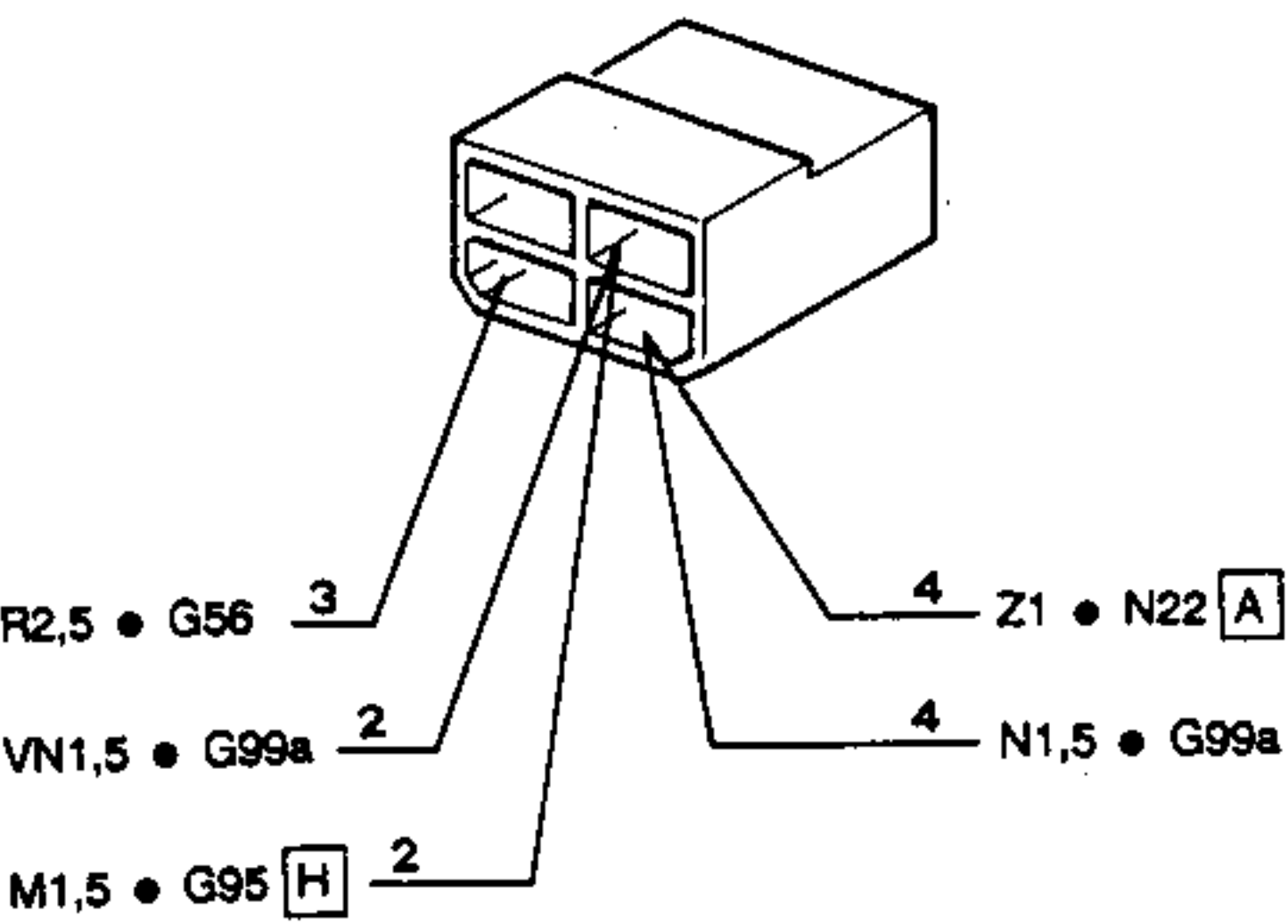
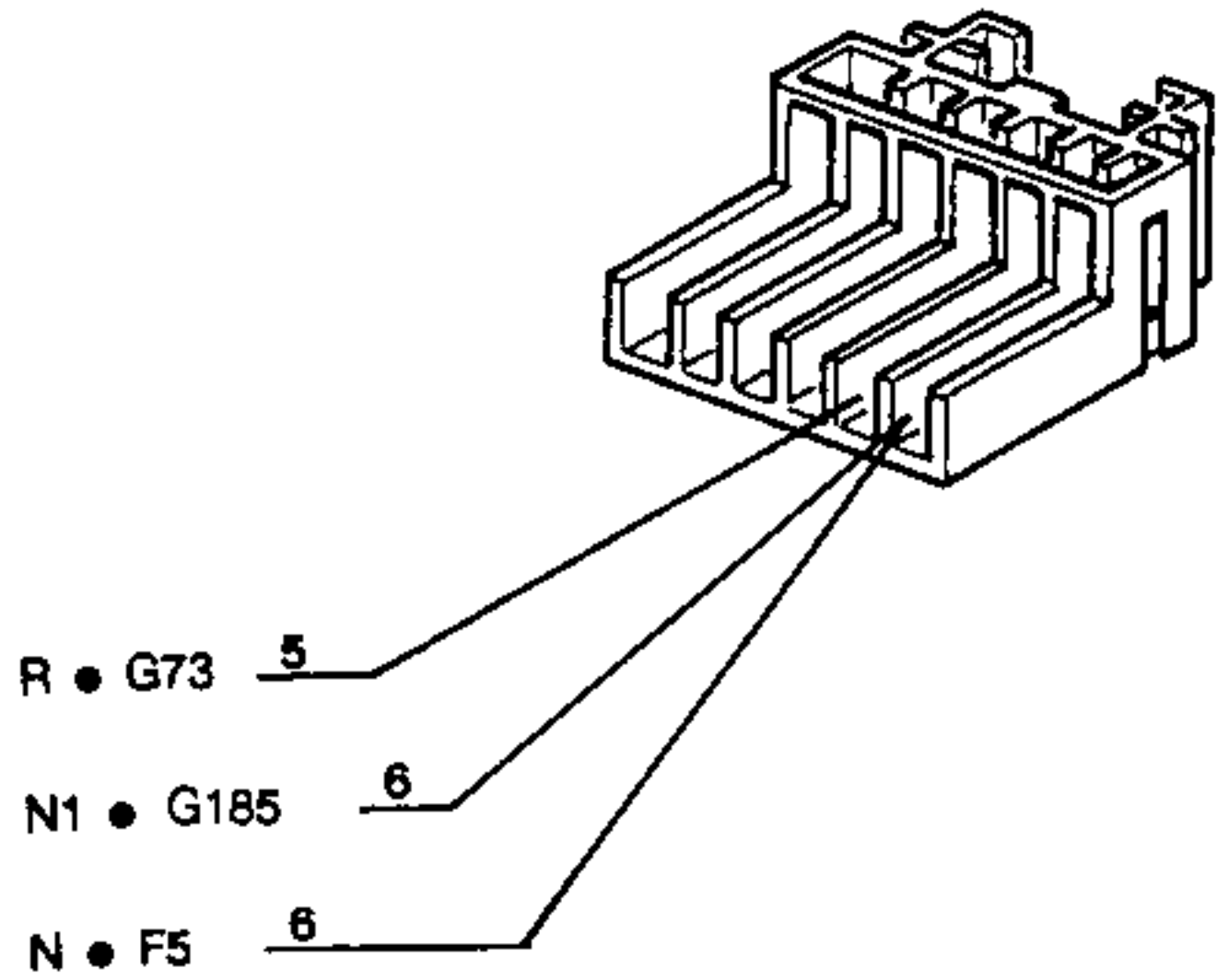
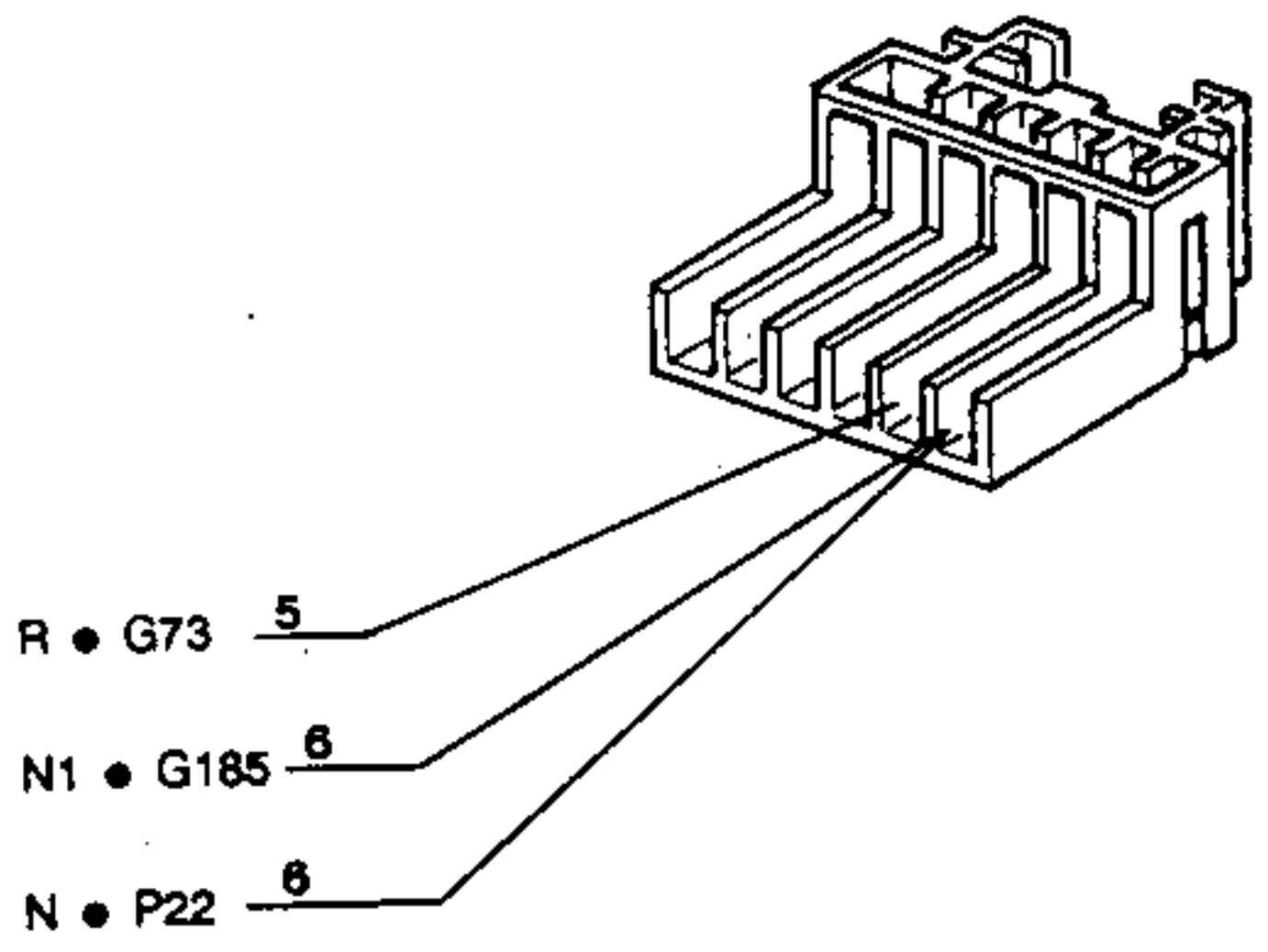
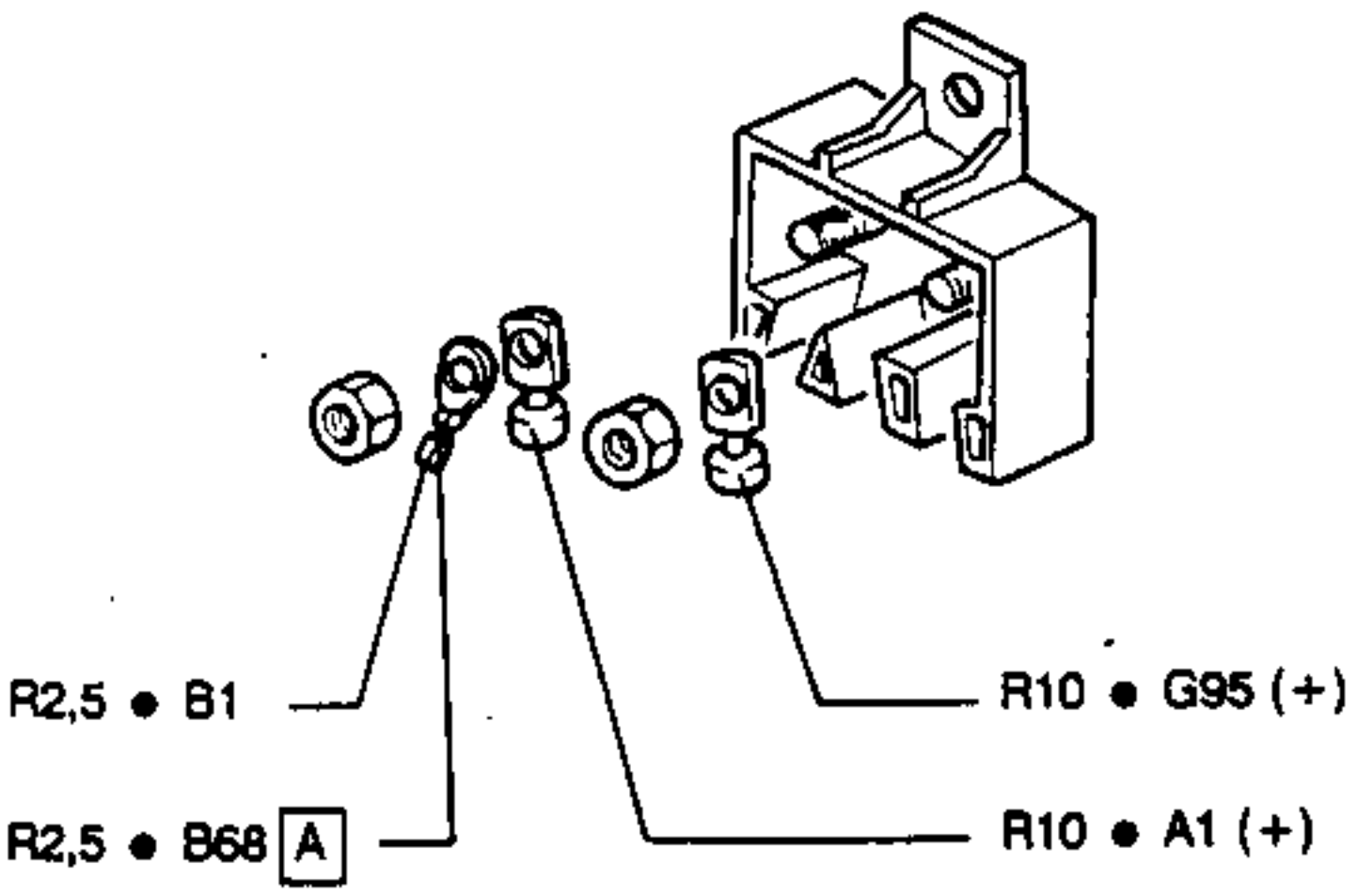
Wiring



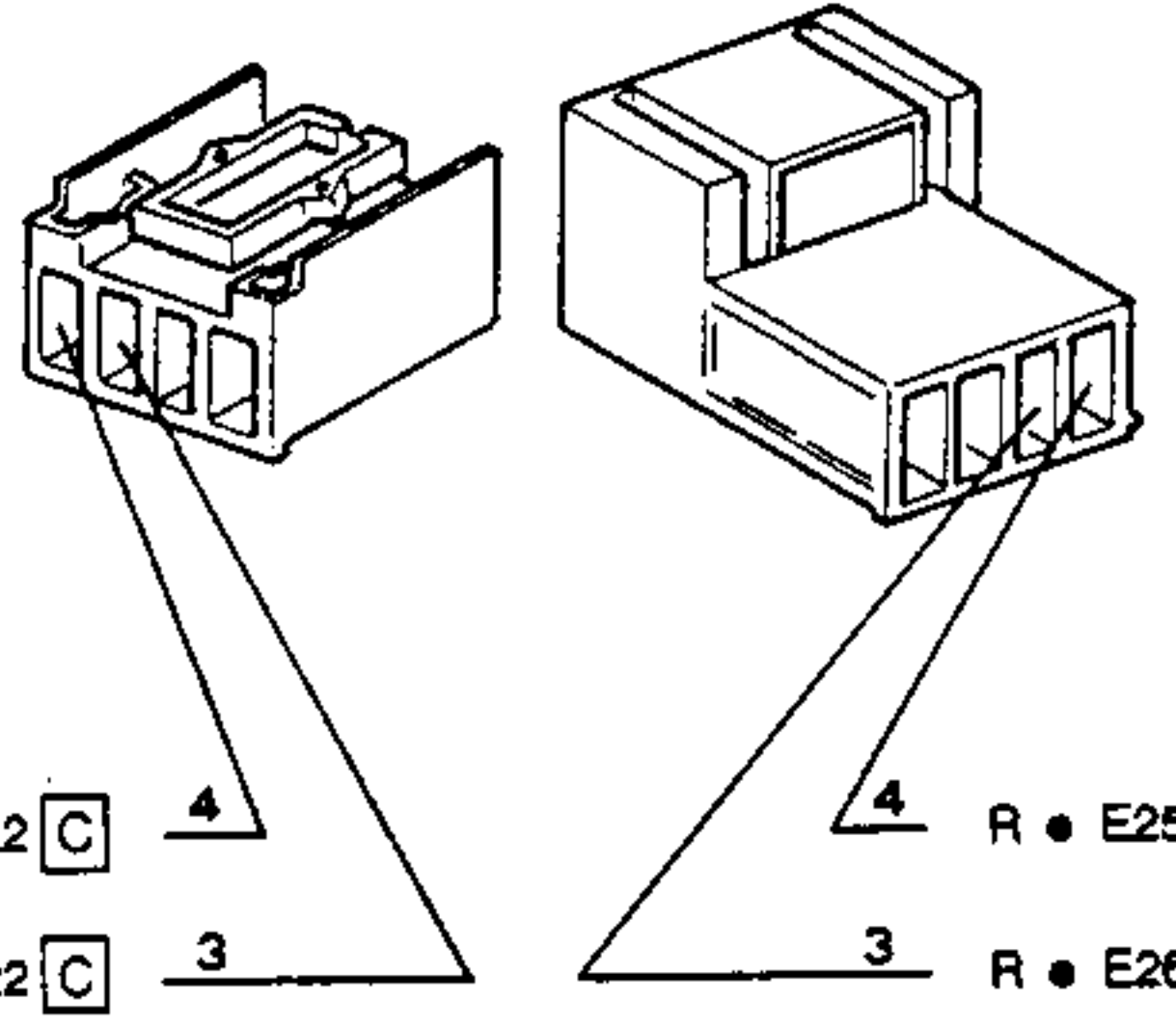
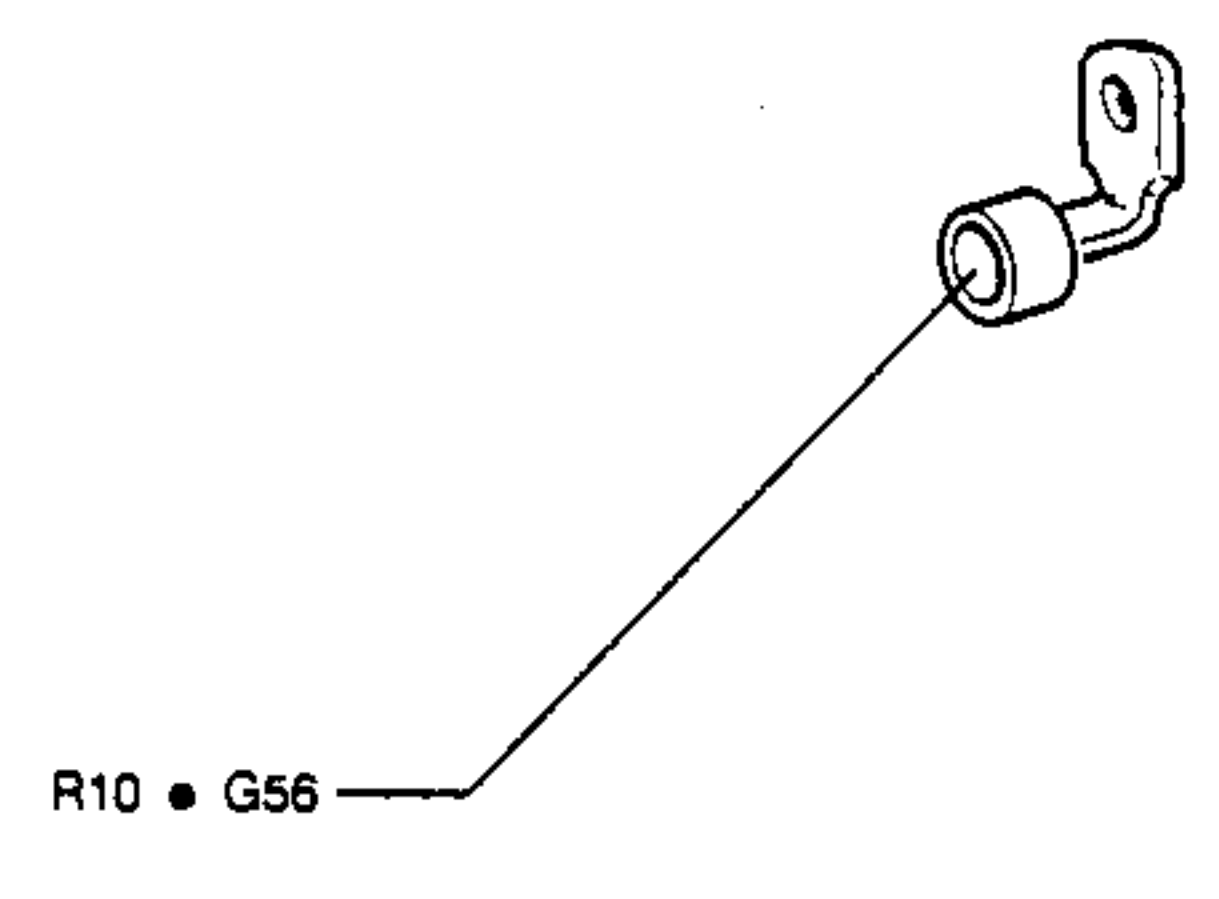
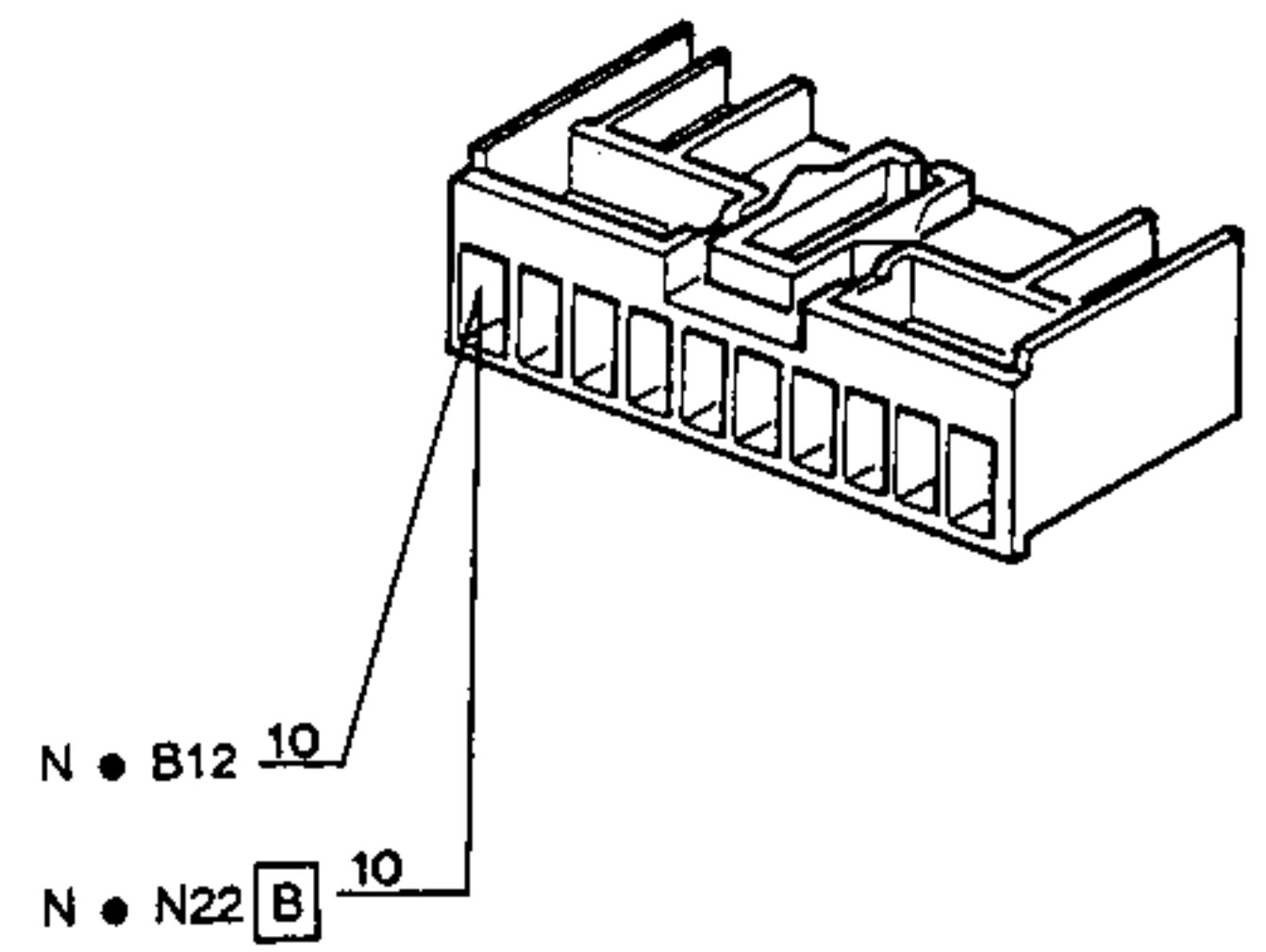
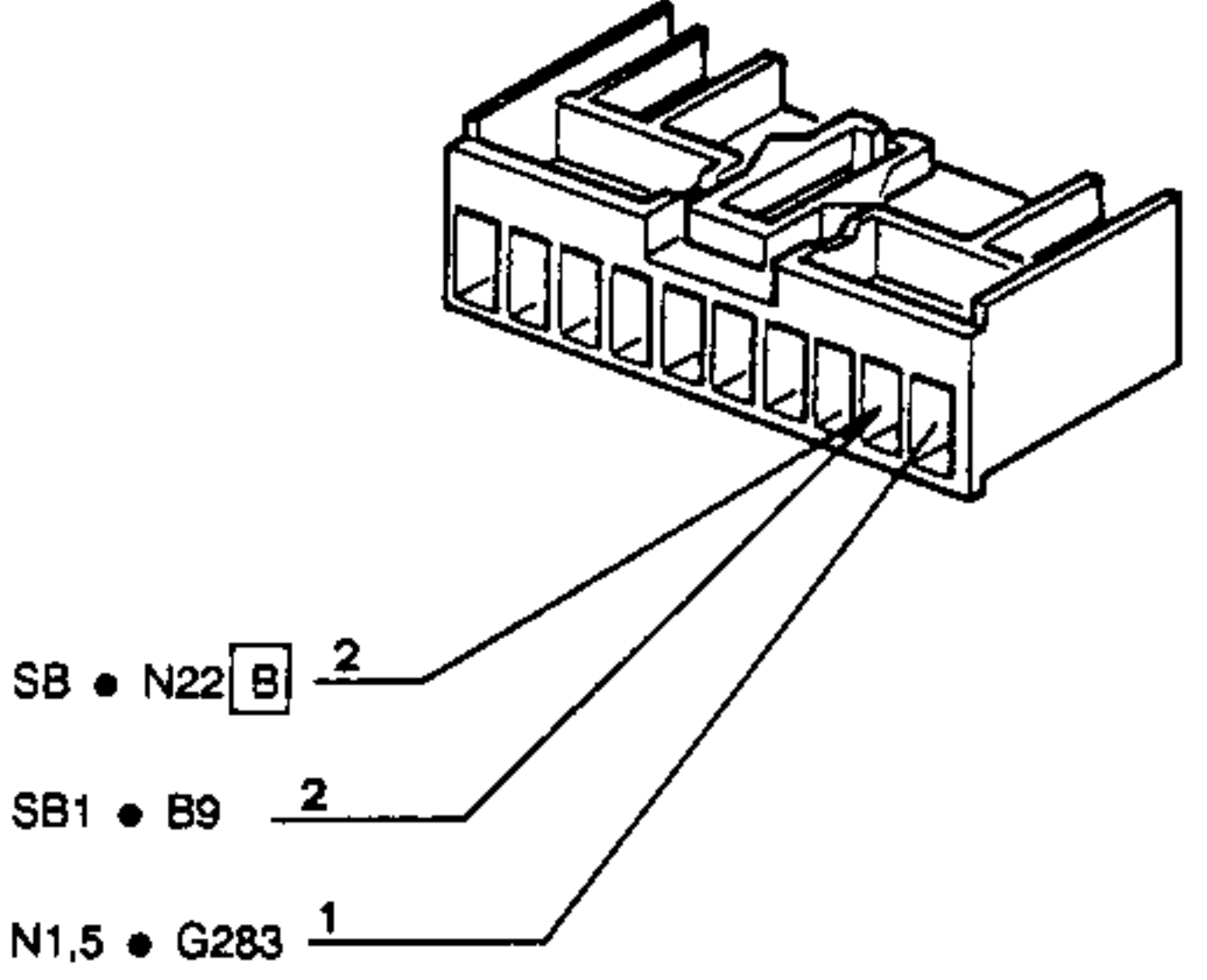
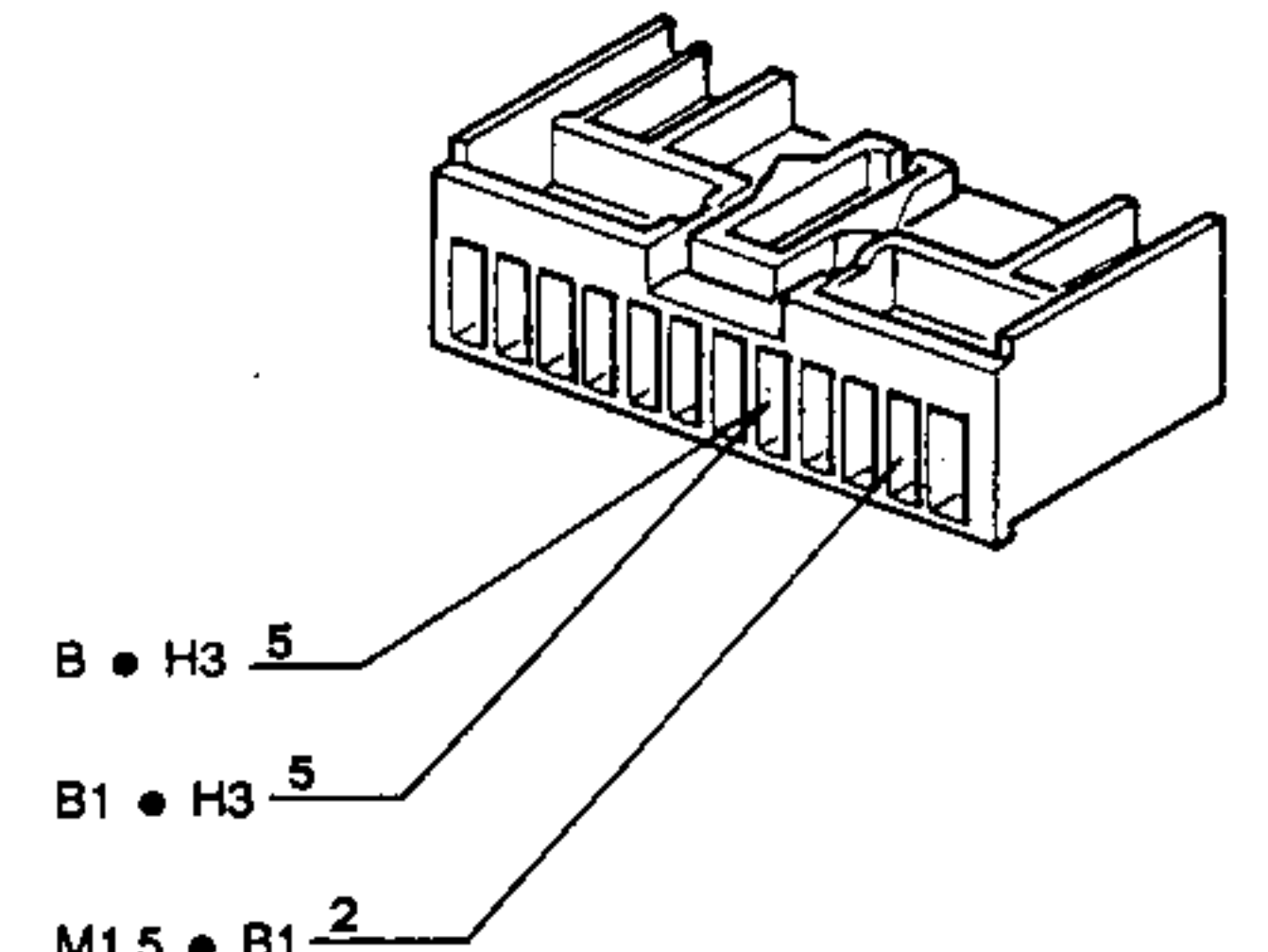
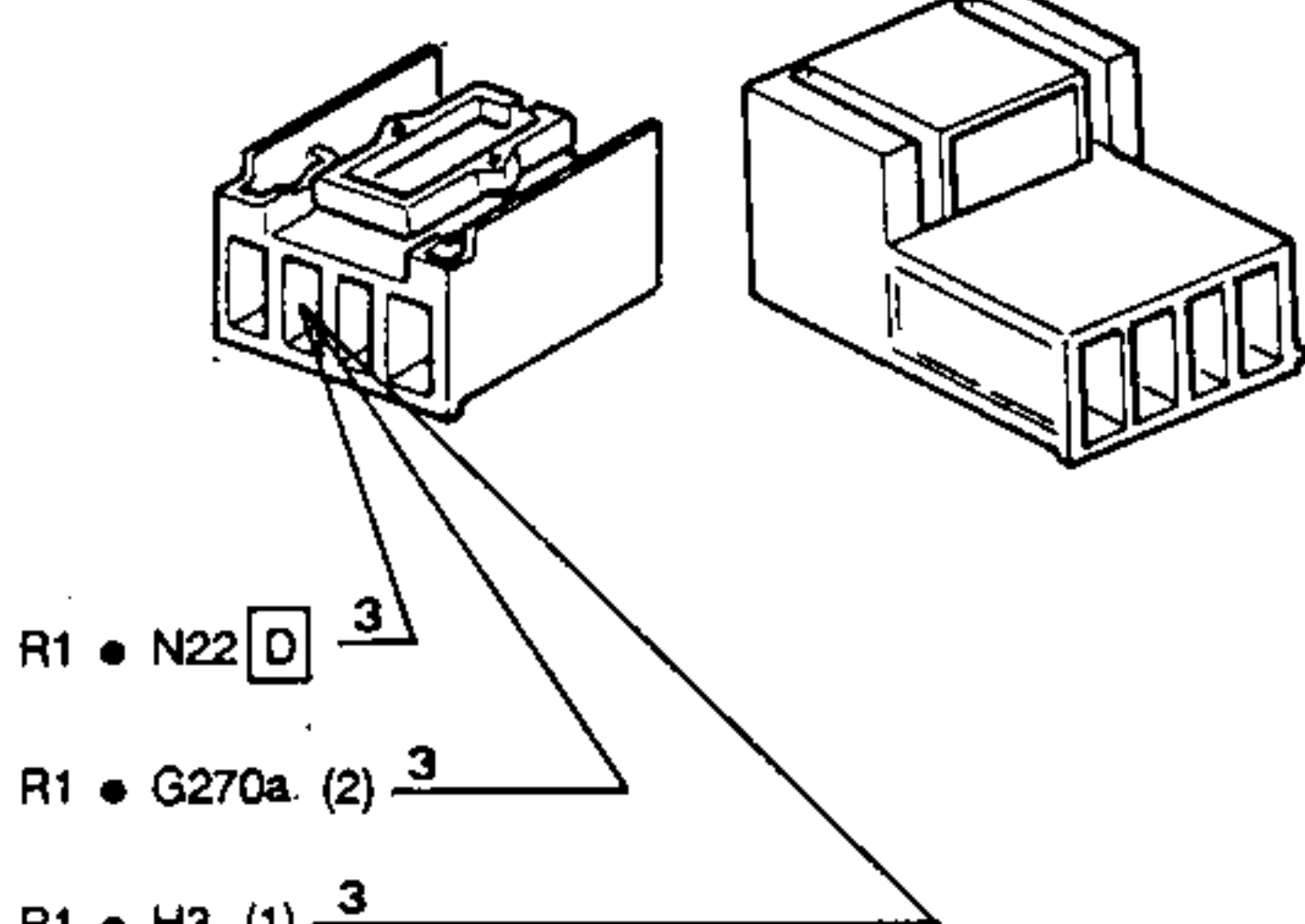
(\* Specific to 4 x 4 version)

ELECTRICAL SYSTEM

Connectors

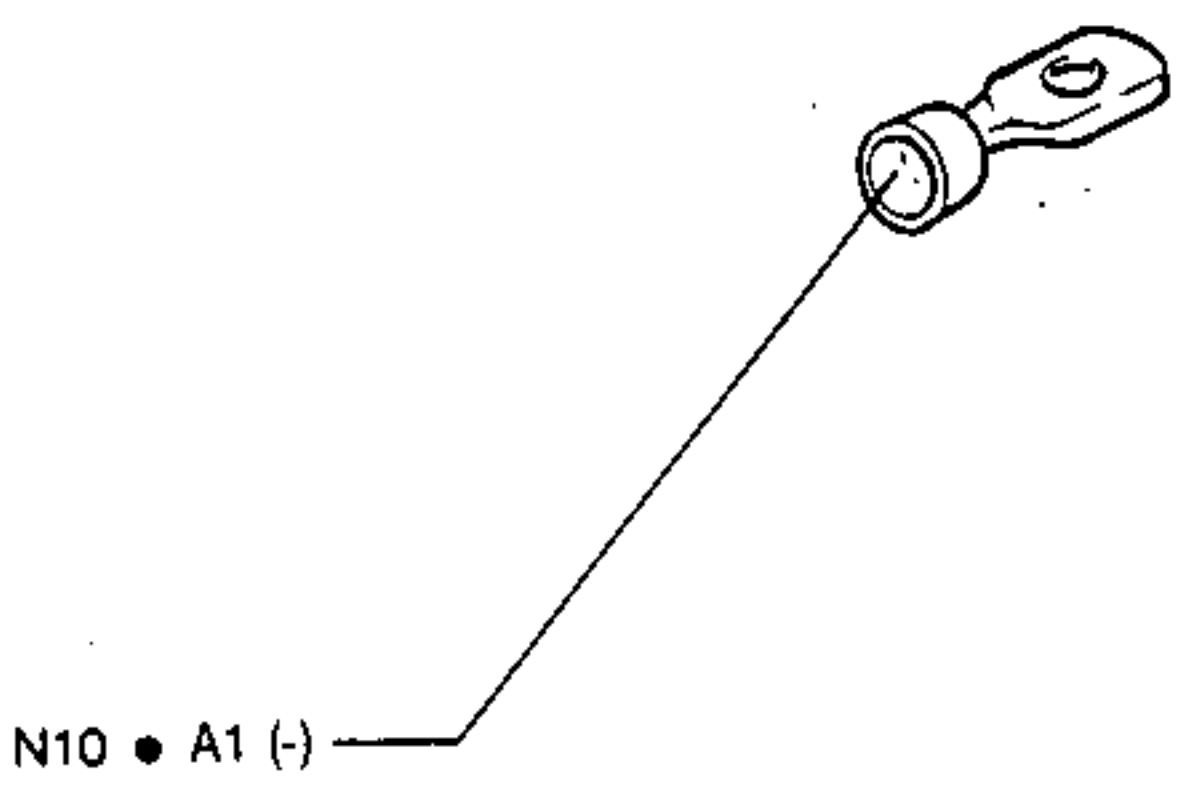
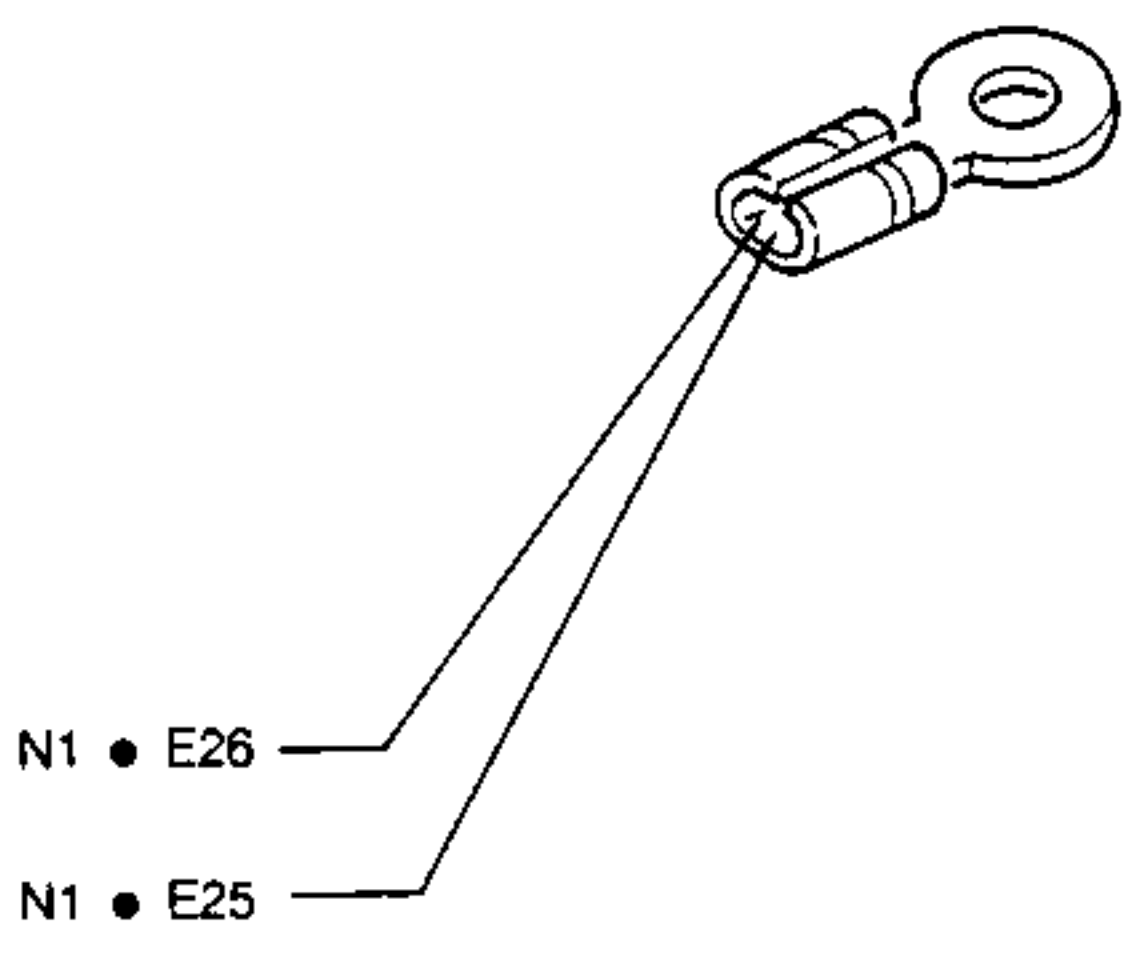
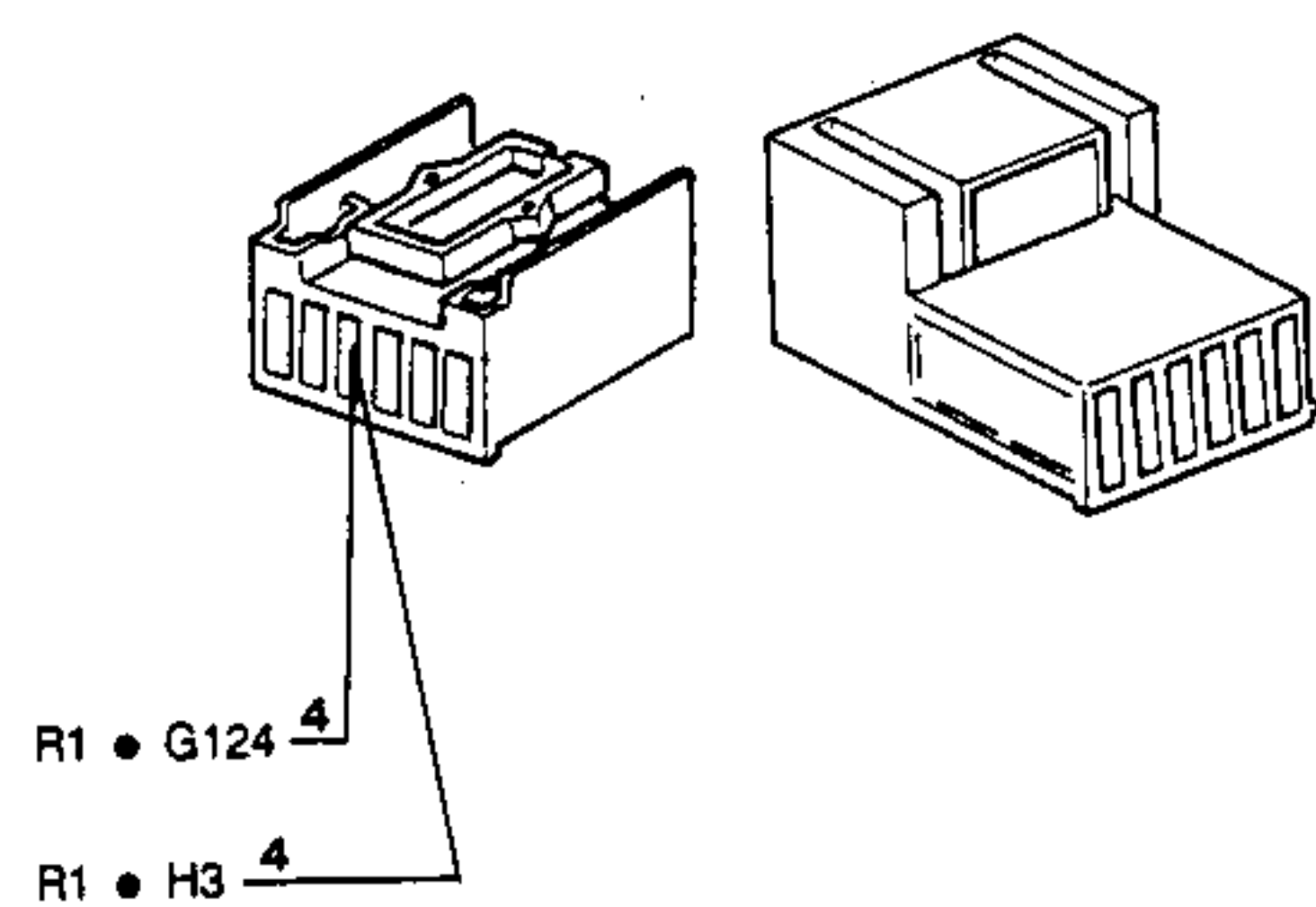
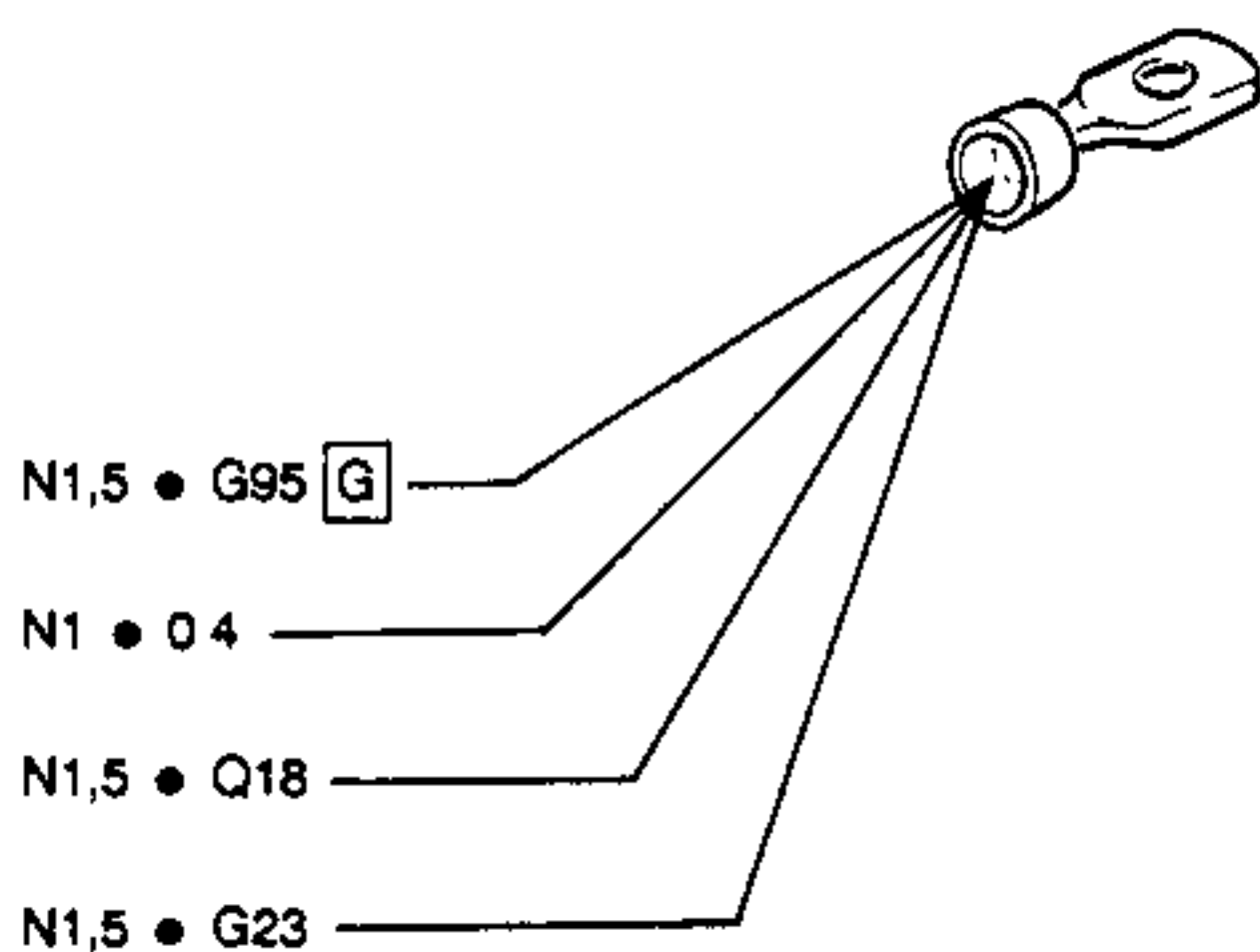
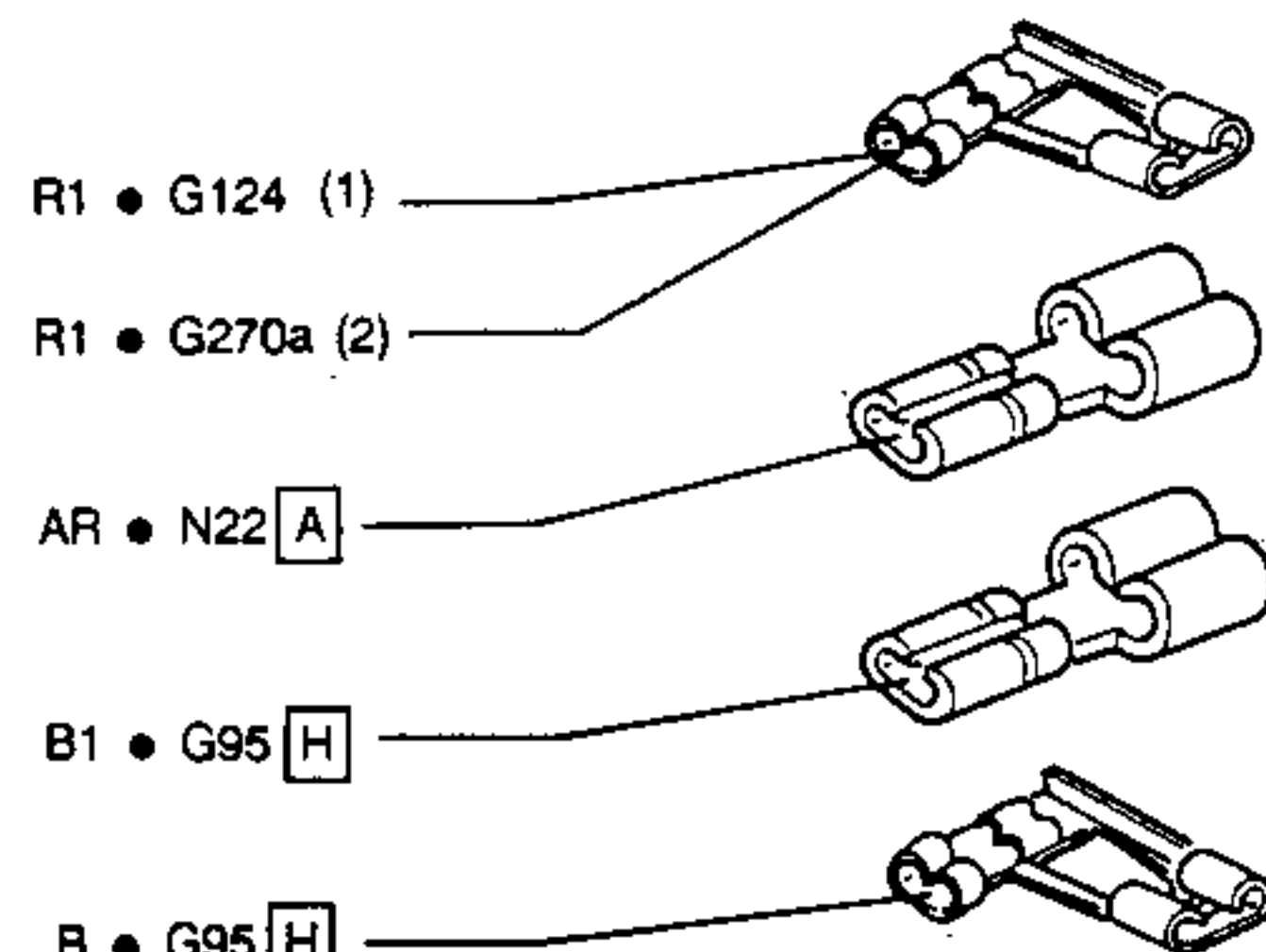
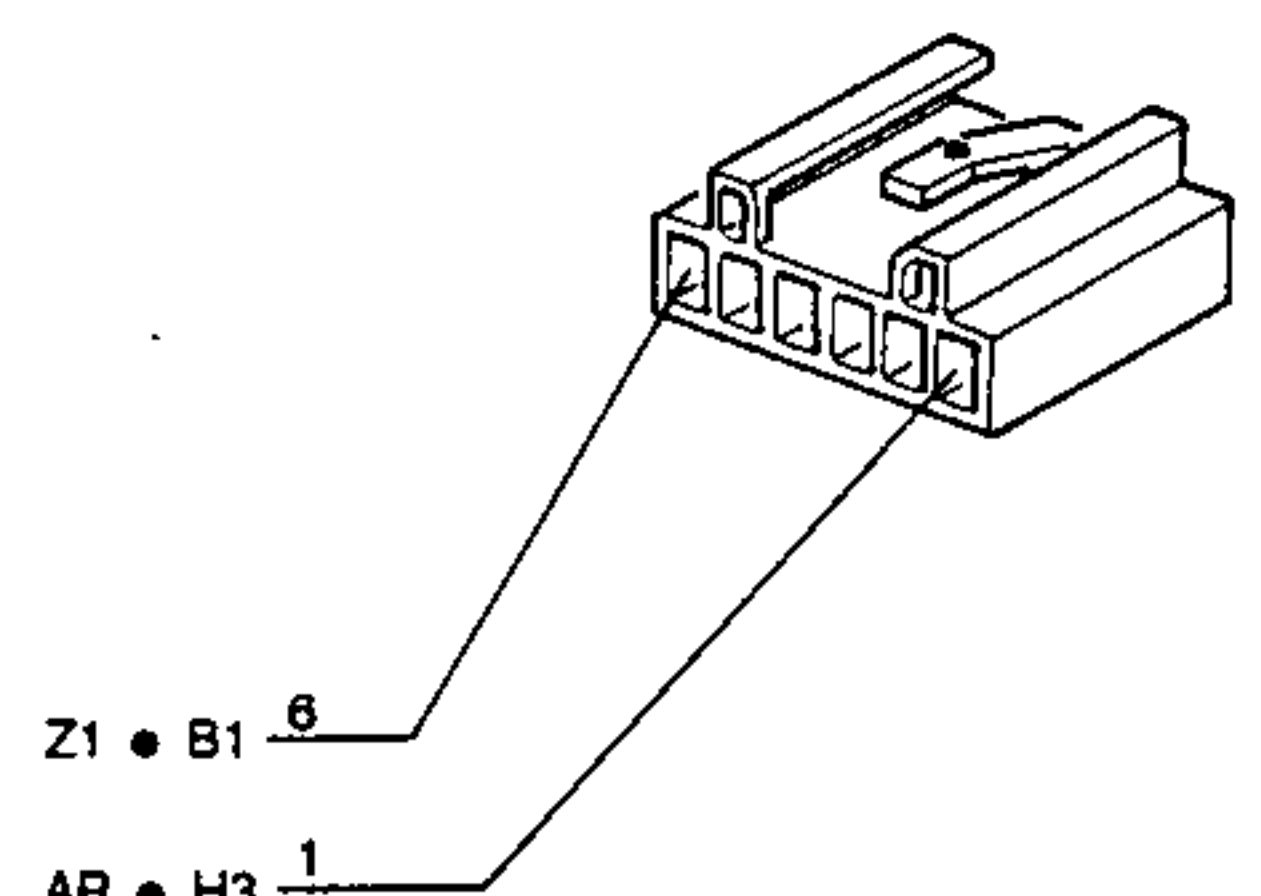
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
Ignition switch	B1	Right tail light	E25
 <p>R2,5 • G56 3</p> <p>VN1,5 • G99a 2</p> <p>M1,5 • G95 [H] 2</p> <p>Z1 • N22 [A] 4</p> <p>N1,5 • G99a 4</p> <p>33.90.028</p>		 <p>R • G73 5</p> <p>N1 • G185 6</p> <p>N • F5 6</p> <p>33.90.033</p>	
Left tail light	E26	Branch terminal board	G56
 <p>R • G73 5</p> <p>N1 • G185 6</p> <p>N • P22 6</p> <p>33.90.033</p>		 <p>R2,5 • B1</p> <p>R2,5 • B68 [A]</p> <p>R10 • G95 (+)</p> <p>R10 • A1 (+)</p> <p>33.90.011</p>	

ELECTRICAL SYSTEM

<p>Connector for rear services</p>	<p>G73</p>	<p>Central fusebox (+)</p>	<p>G95</p>
 <p>R • N22 C 4 R • N22 C 3</p> <p>R • E25 4 R • E26 3</p> <p>33.90.018</p>		 <p>R10 • G56</p> <p>33.90.006</p>	
<p>Central fusebox</p>	<p>G95 F</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N • B12 10 N • N22 B 10</p> <p>33.90.005</p>		 <p>SB • N22 B 2 SB1 • B9 2 N1,5 • G283 1</p> <p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 H</p>	<p>ABS system connector</p>	<p>G124</p>
 <p>B • H3 5 B1 • H3 5 M1,5 • B1 2</p> <p>33.90.004</p>		 <p>R1 • N22 D 3 R1 • G270a. (2) 3 R1 • H3 (1) 3</p> <p>33.90.018</p>	

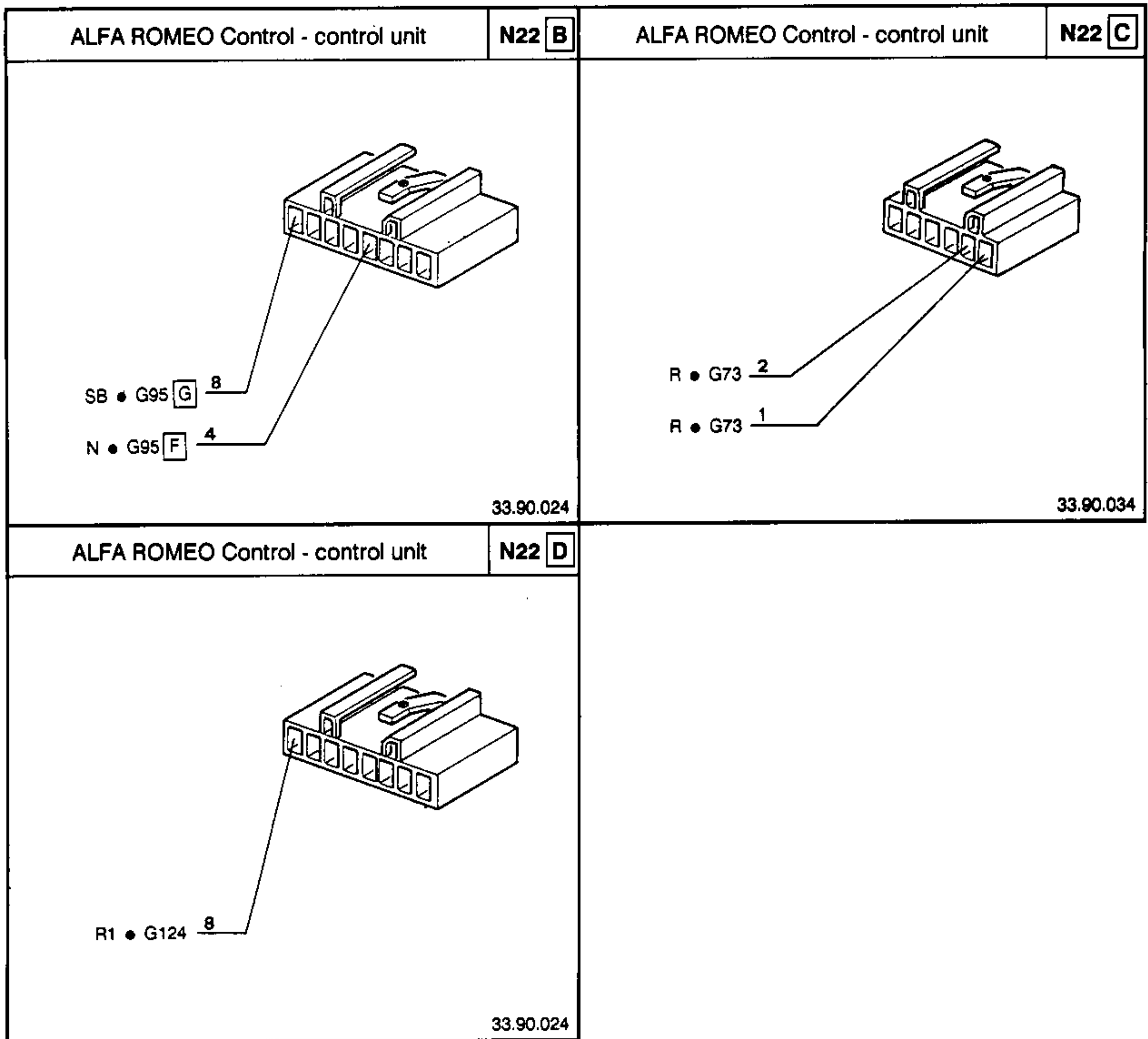
(1) Specific to versions 4x2  
(2) Specific to versions 4x4

# ELECTRICAL SYSTEM

<p style="text-align: center;"><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>	<p style="text-align: center;"><b>Luggage compartment earth</b></p> <p style="text-align: right;"><b>G185</b></p>
 <p style="text-align: right;">33.90.001</p>	 <p style="text-align: right;">33.90.032</p>
<p style="text-align: center;"><b>Dashboard wiring - four-wheel drive wiring (six way) connection (2)</b></p> <p style="text-align: right;"><b>G270a</b></p>	<p style="text-align: center;"><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>
 <p style="text-align: right;">33.90.036</p>	 <p style="text-align: right;">33.90.001</p>
<p style="text-align: center;"><b>Stop light switch</b></p> <p style="text-align: right;"><b>H3</b></p>	<p style="text-align: center;"><b>ALFA ROMEO Control - control unit</b></p> <p style="text-align: right;"><b>N22 A</b></p>
 <p style="text-align: right;">33.90.037 - 33.90.021</p>	 <p style="text-align: right;">33.90.034</p>

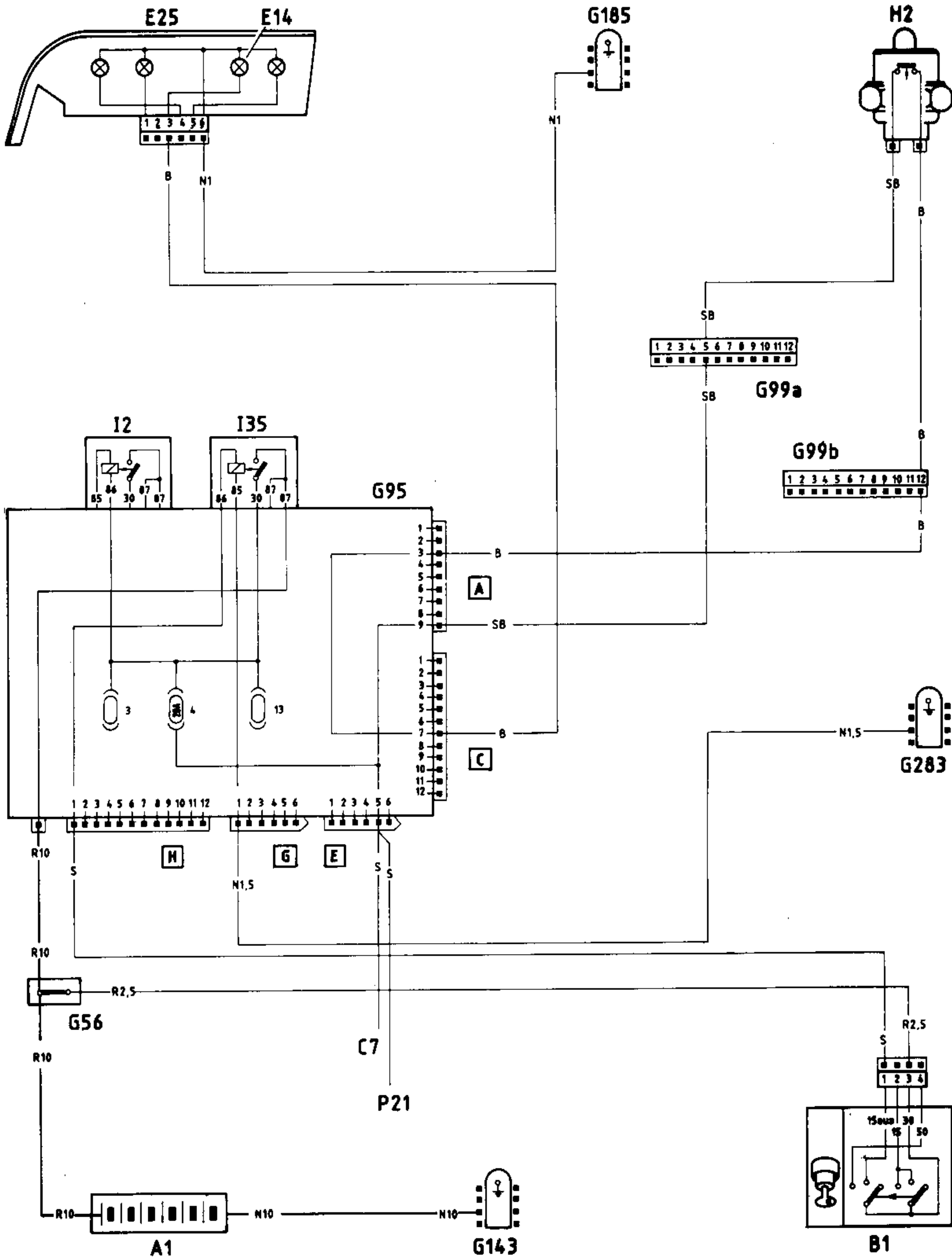
(1) Specific to versions 4x2  
 (2) Specific to versions 4x4

# ELECTRICAL SYSTEM

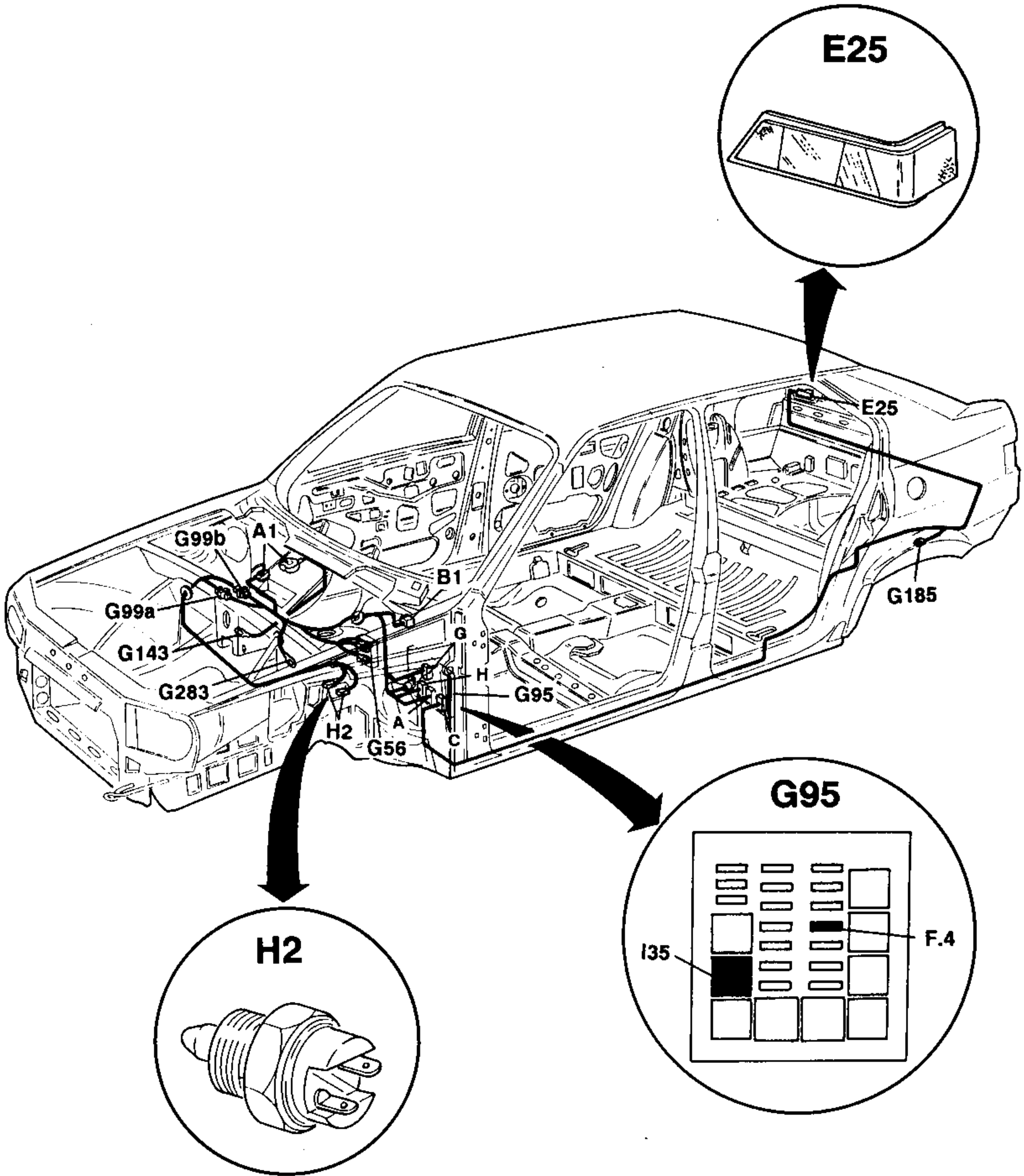


REAR FOG LAMP

Wiring diagram

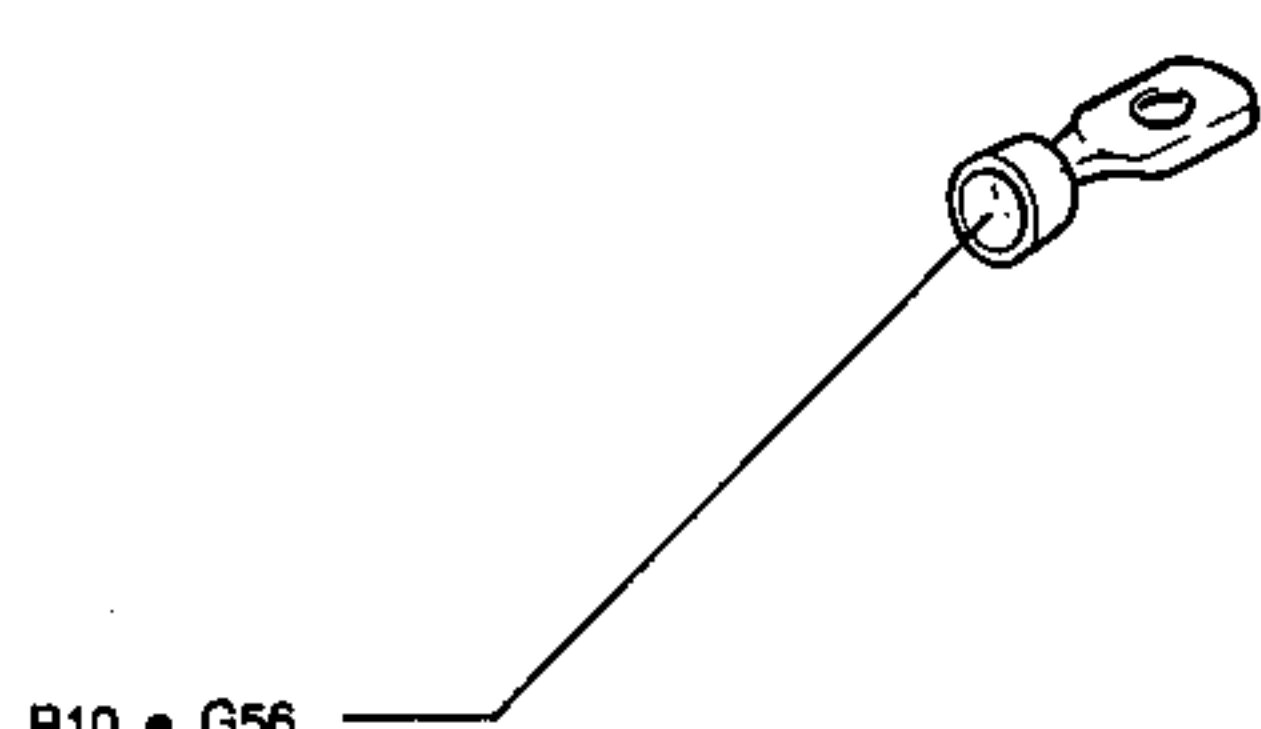
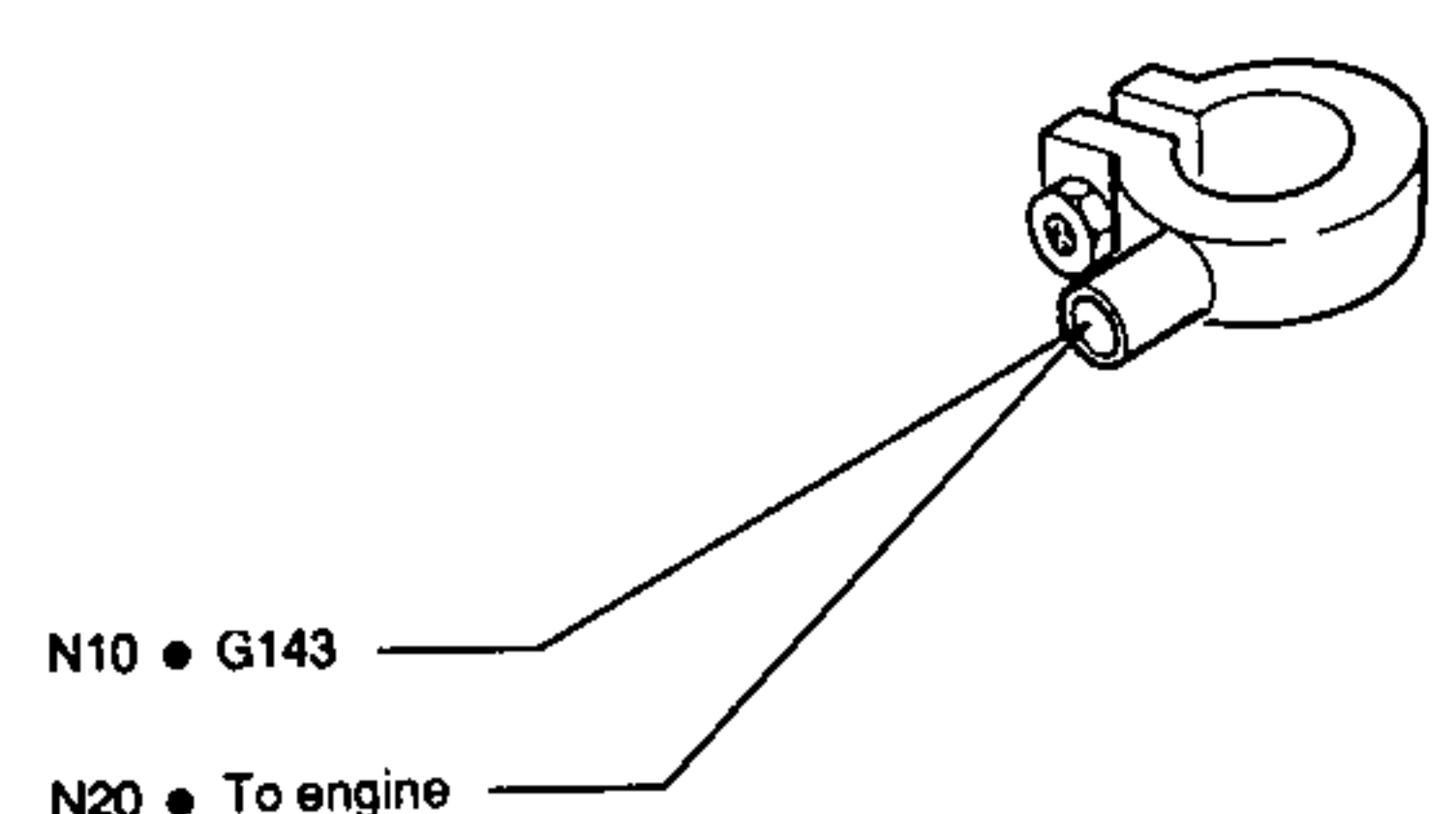
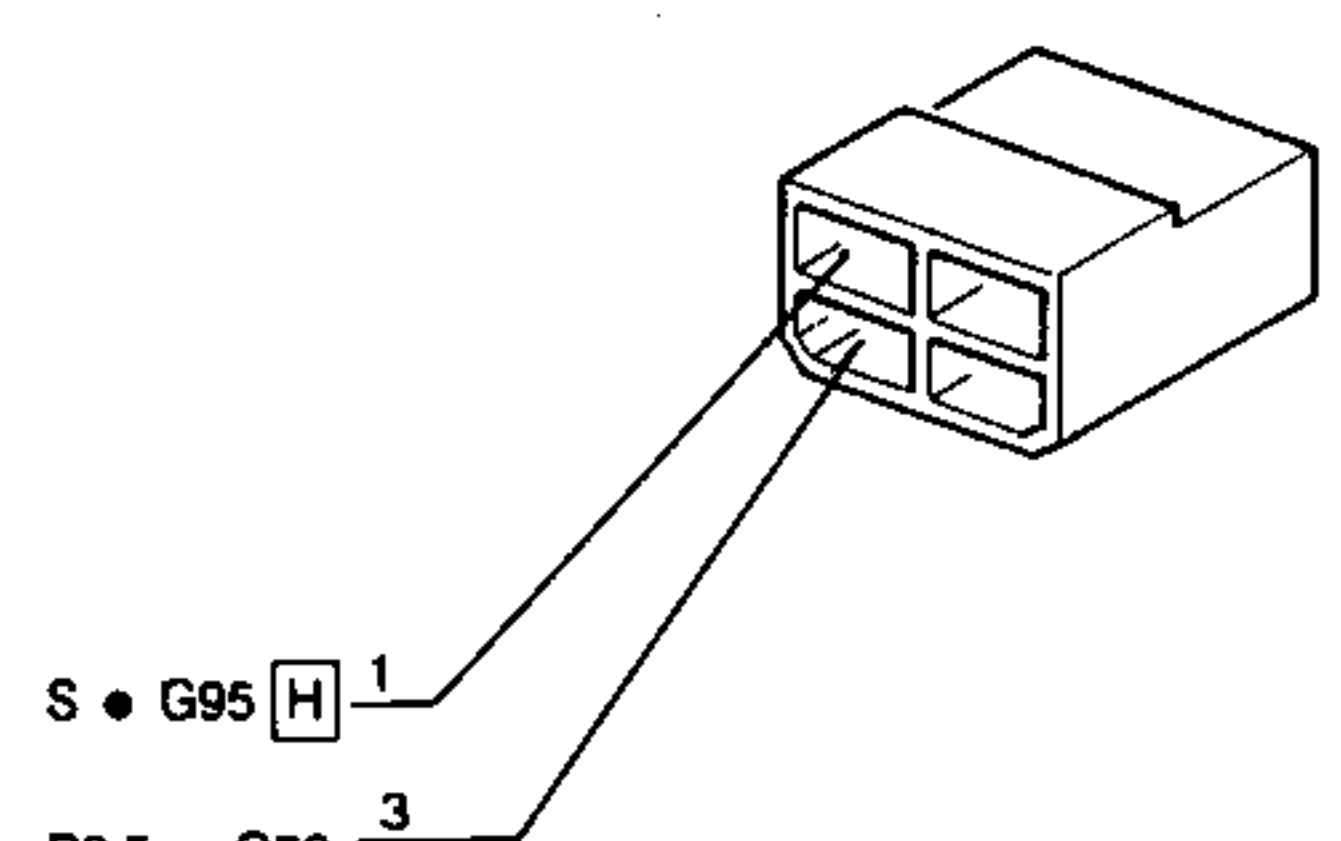
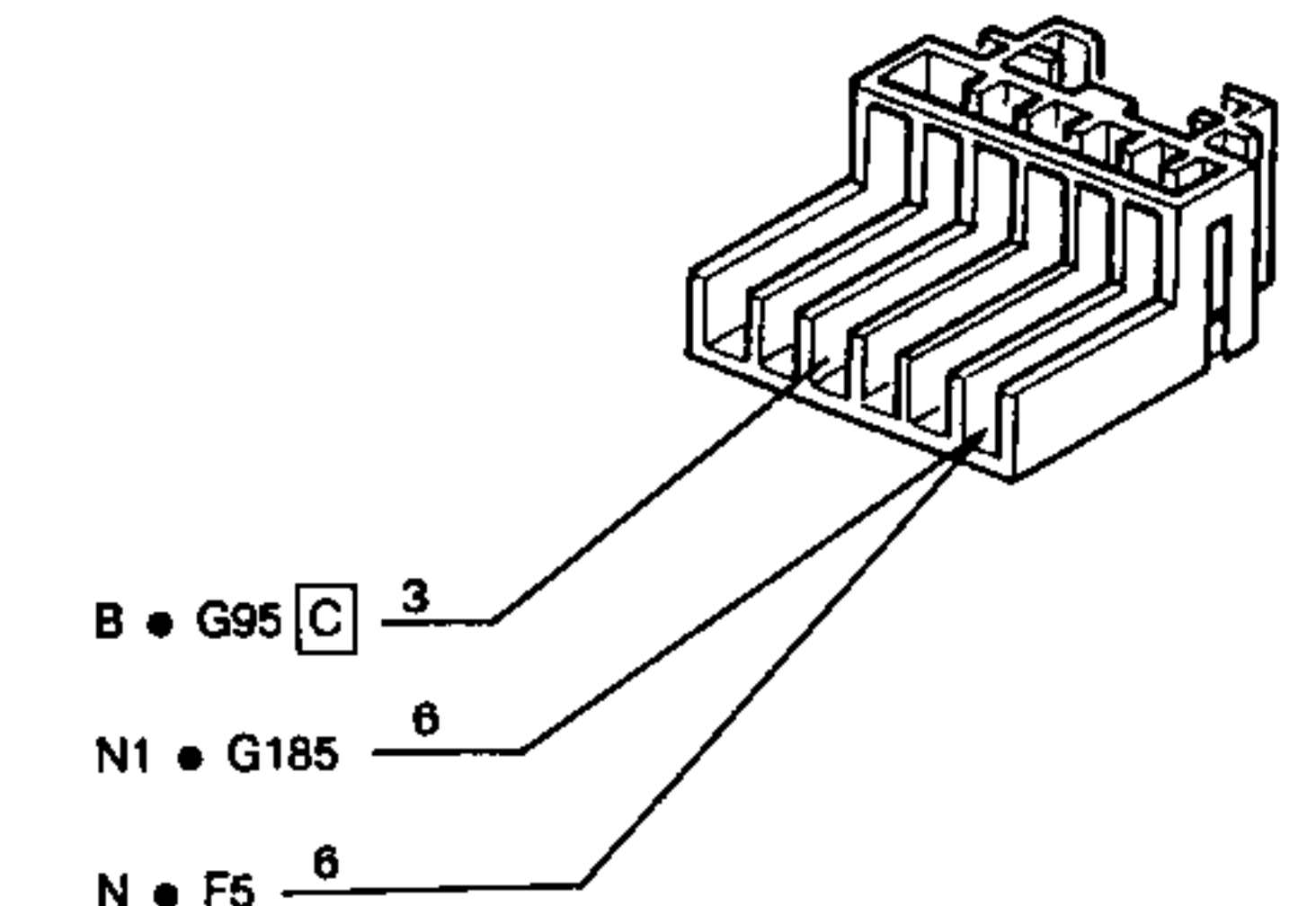
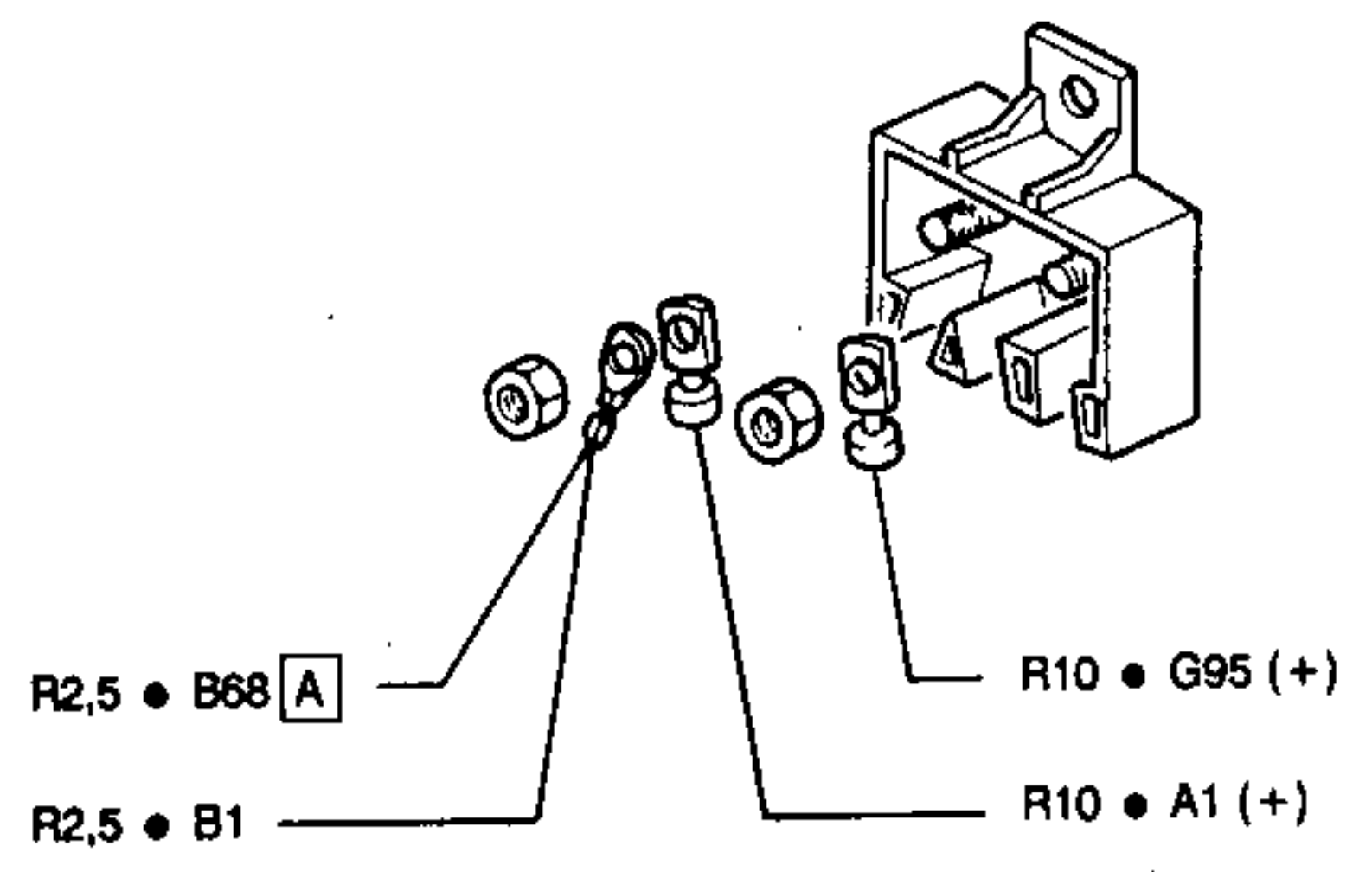
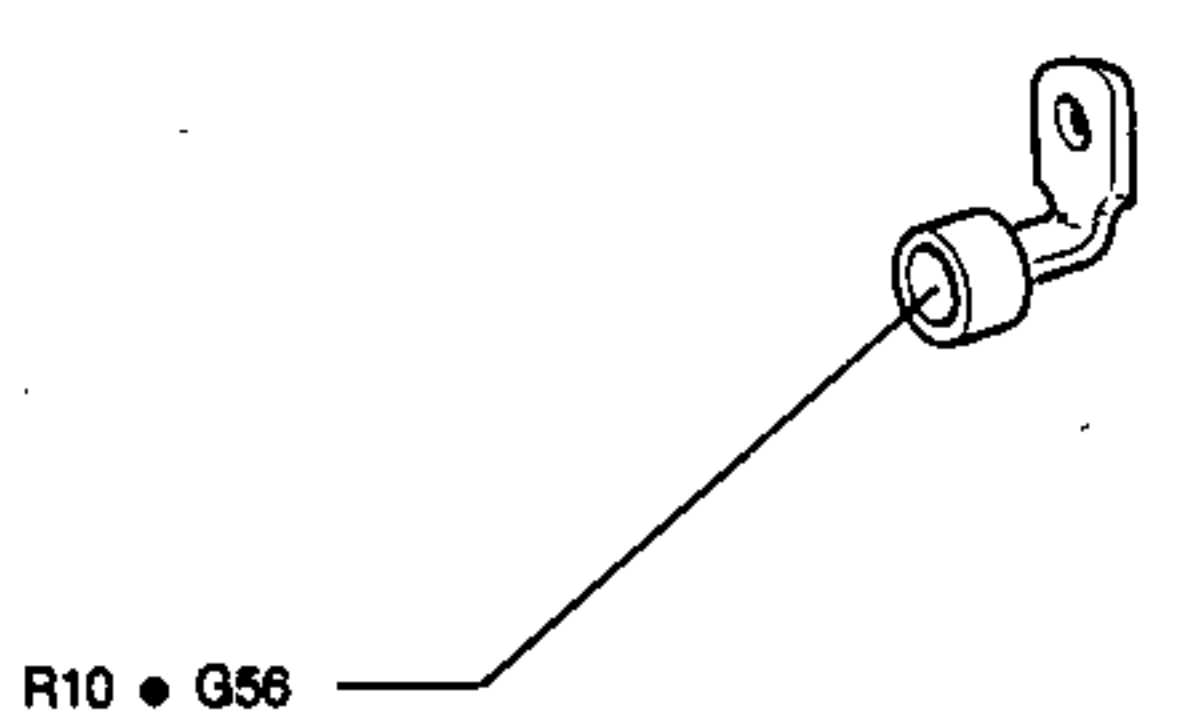


Wiring



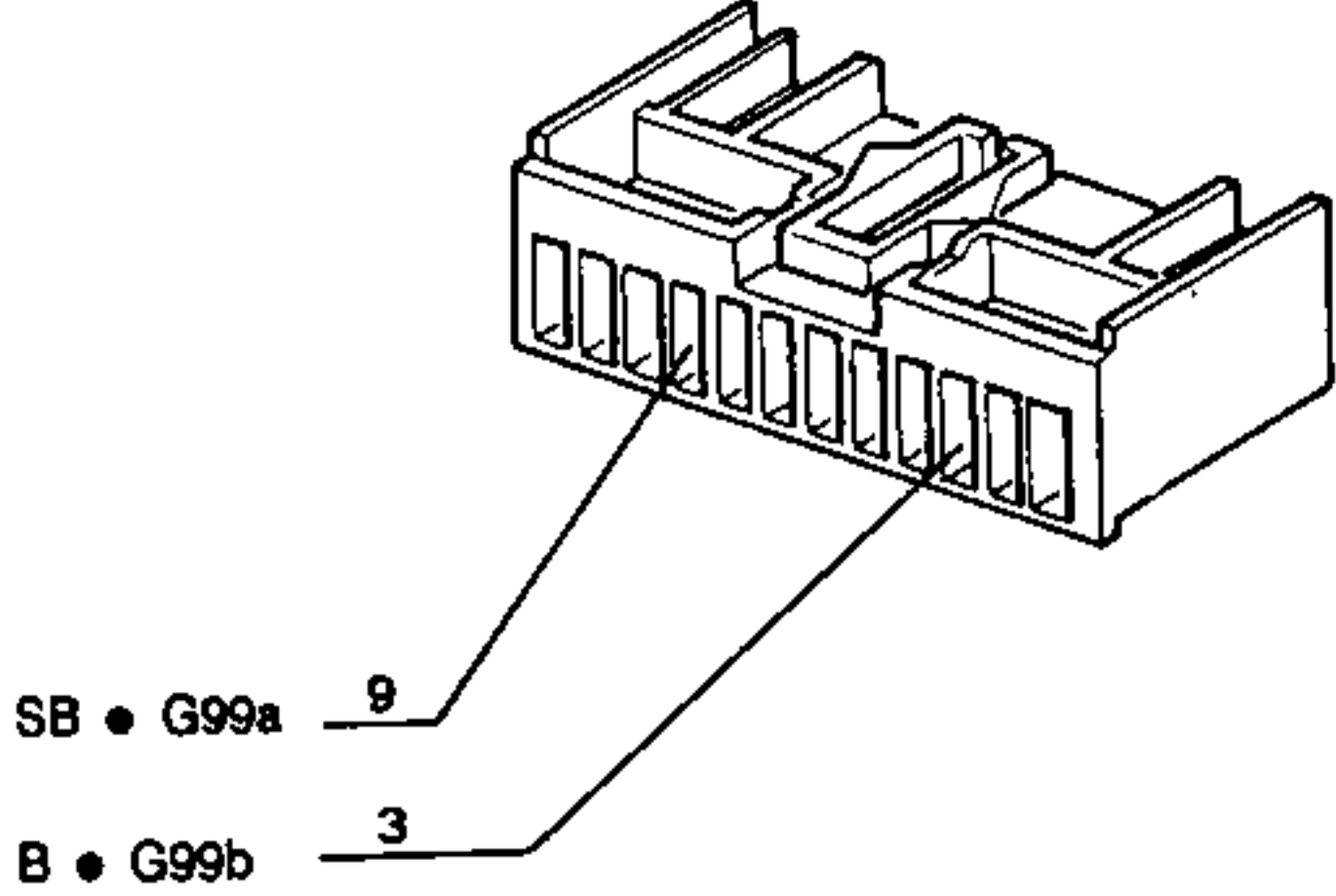
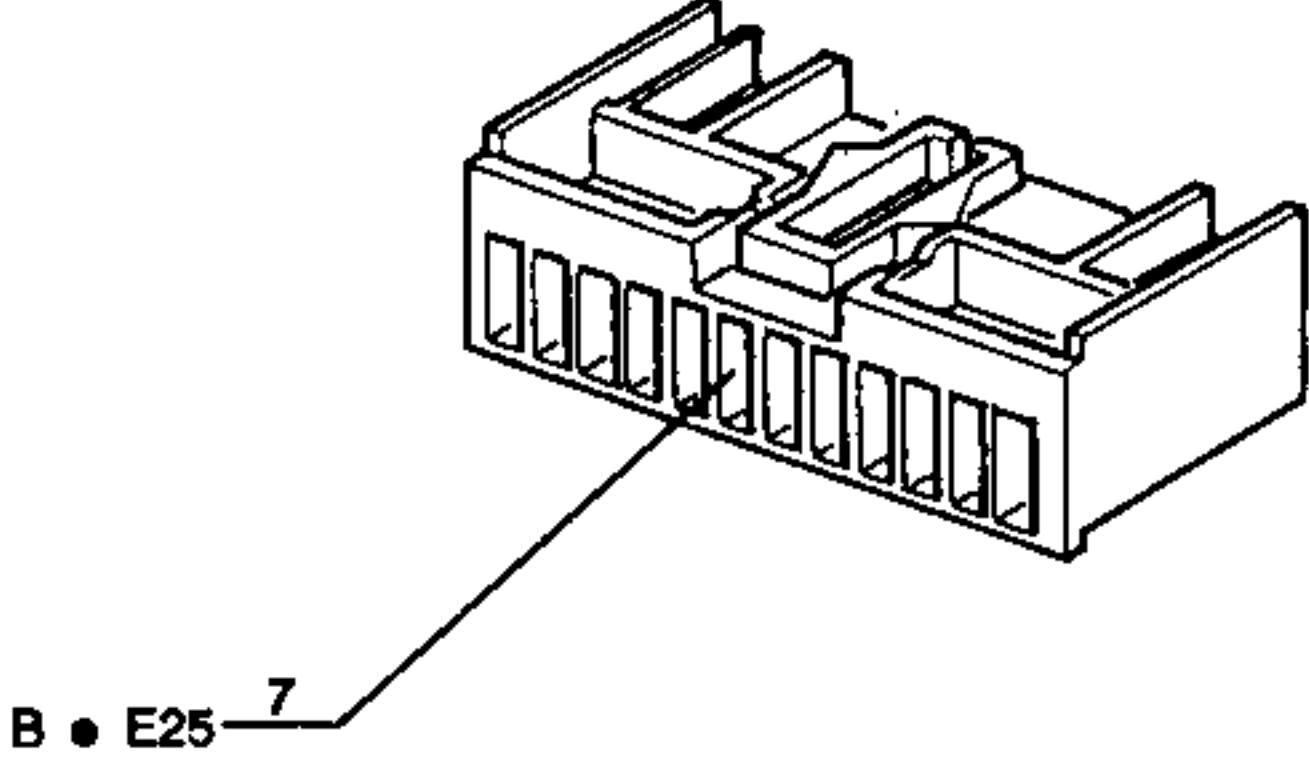
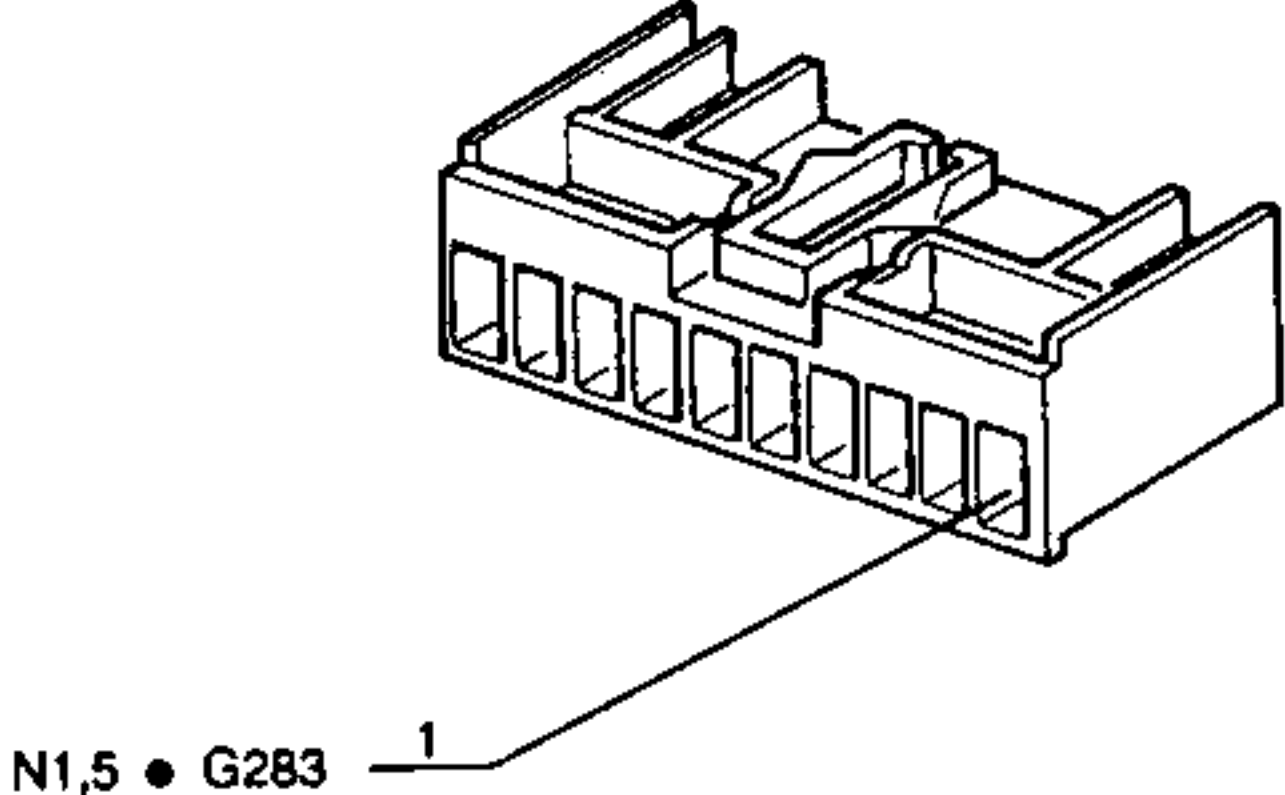
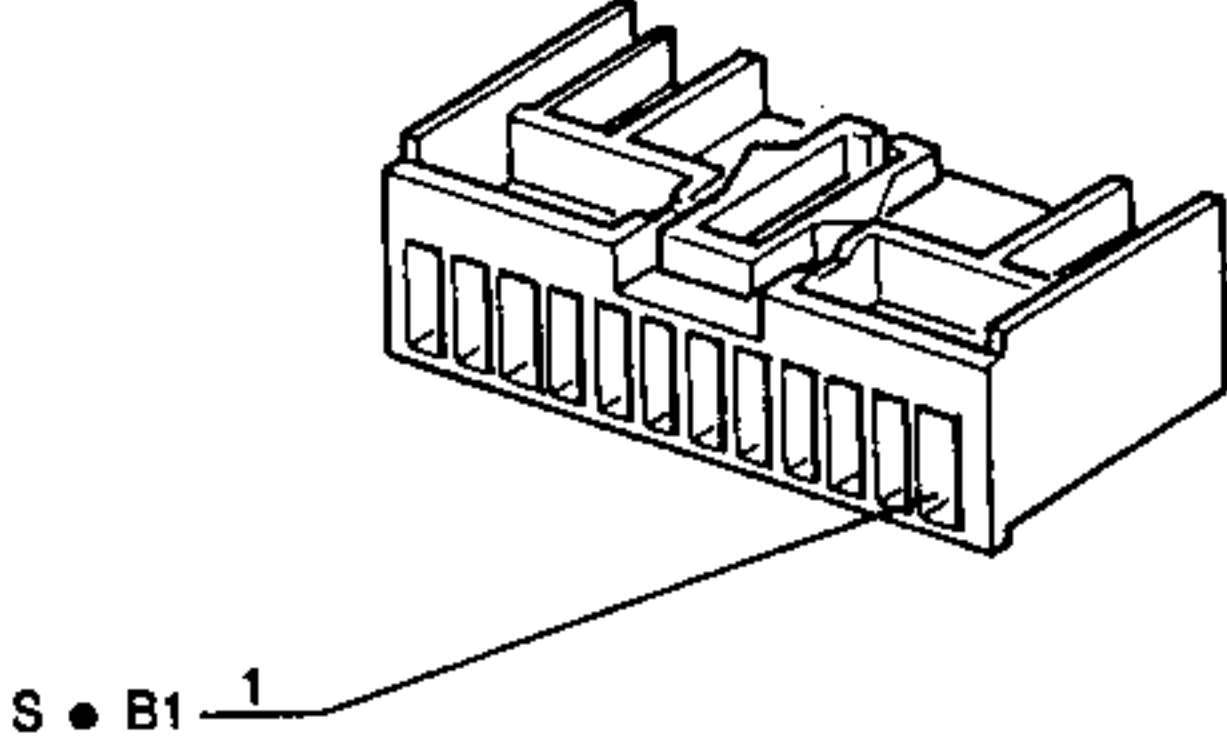
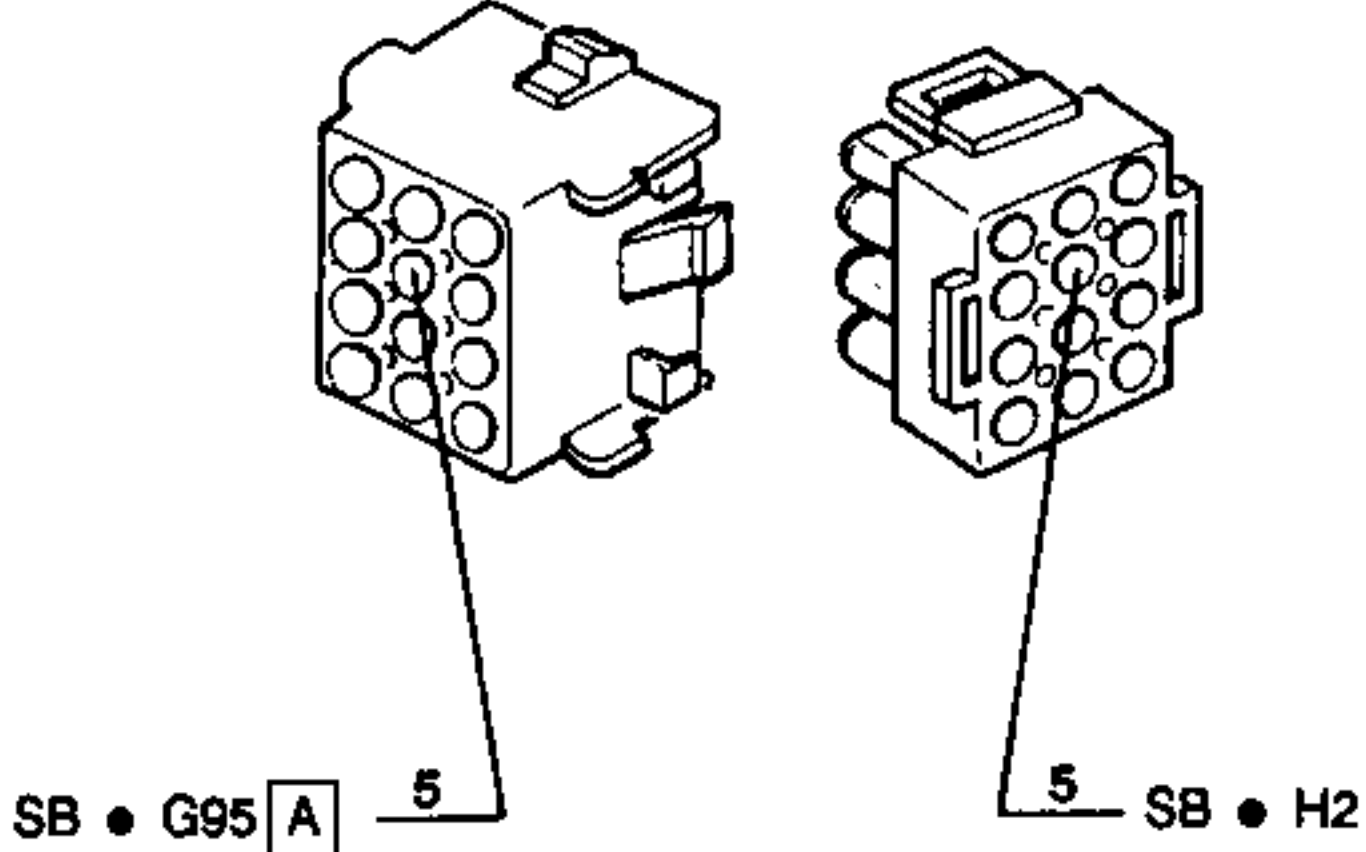
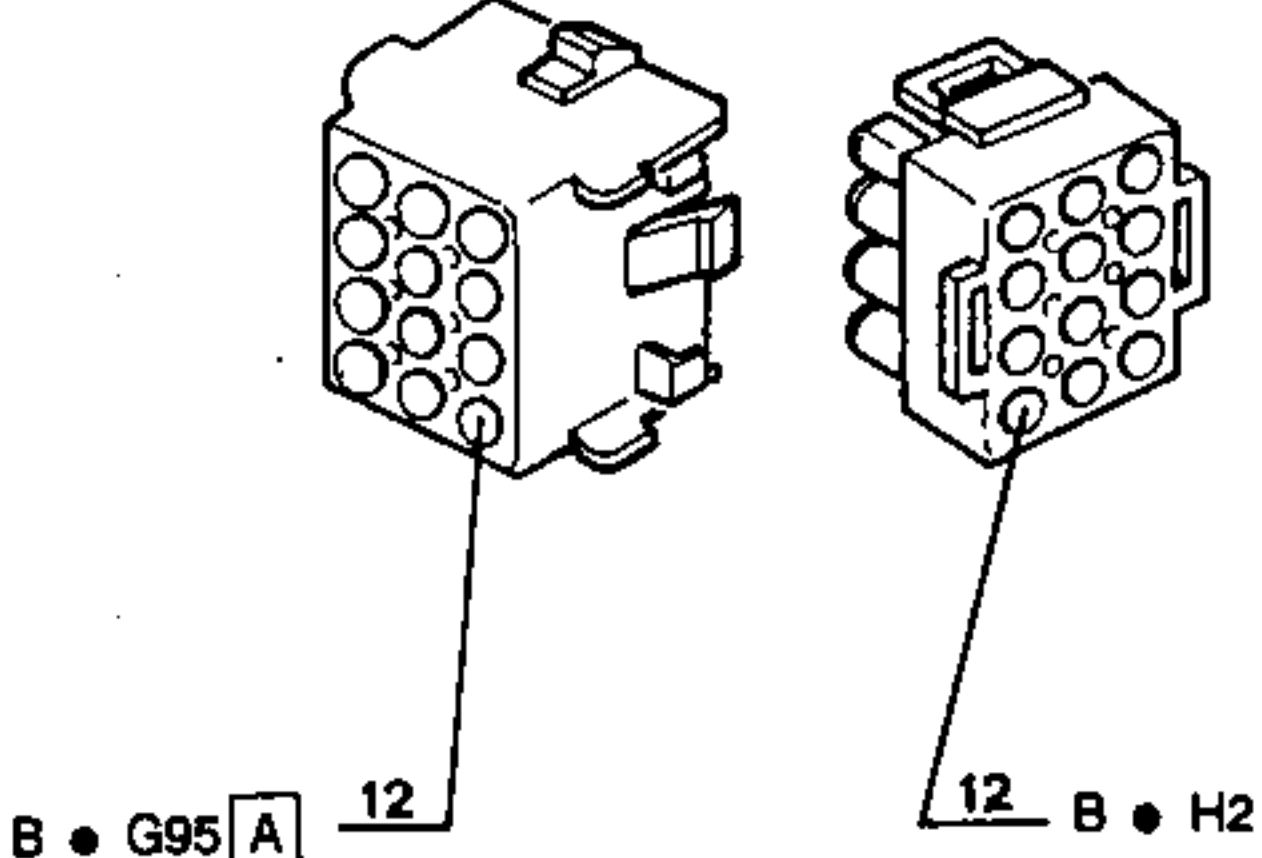
# ELECTRICAL SYSTEM

## Connectors

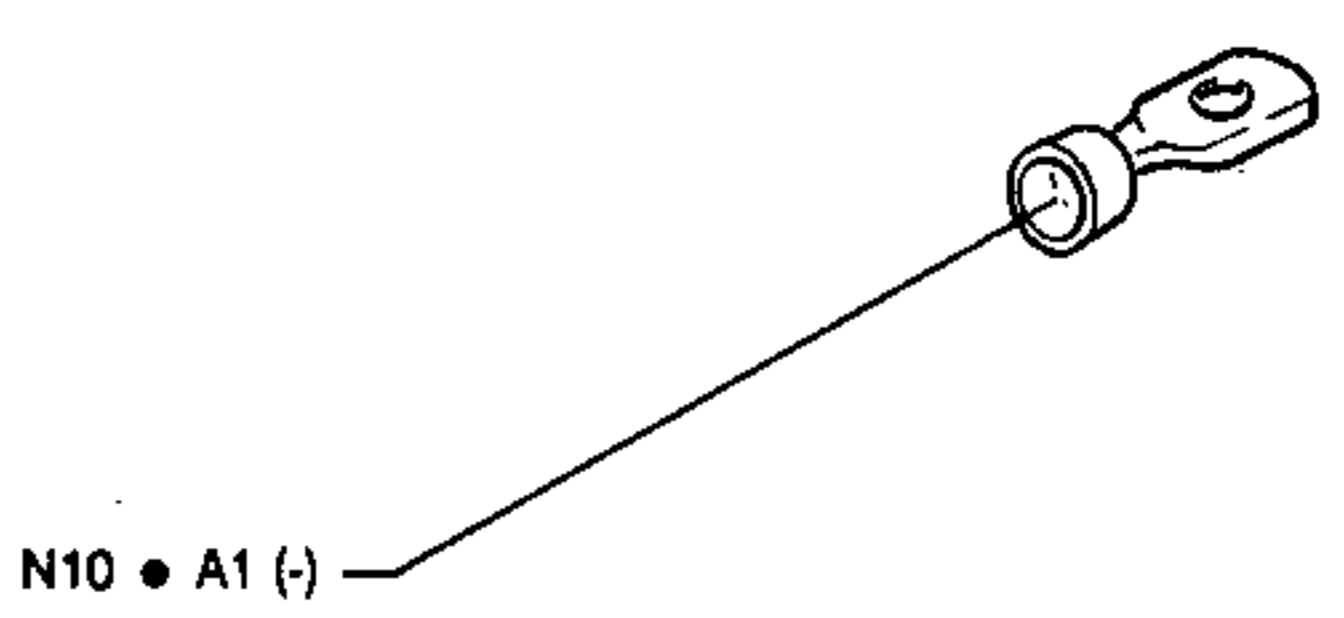
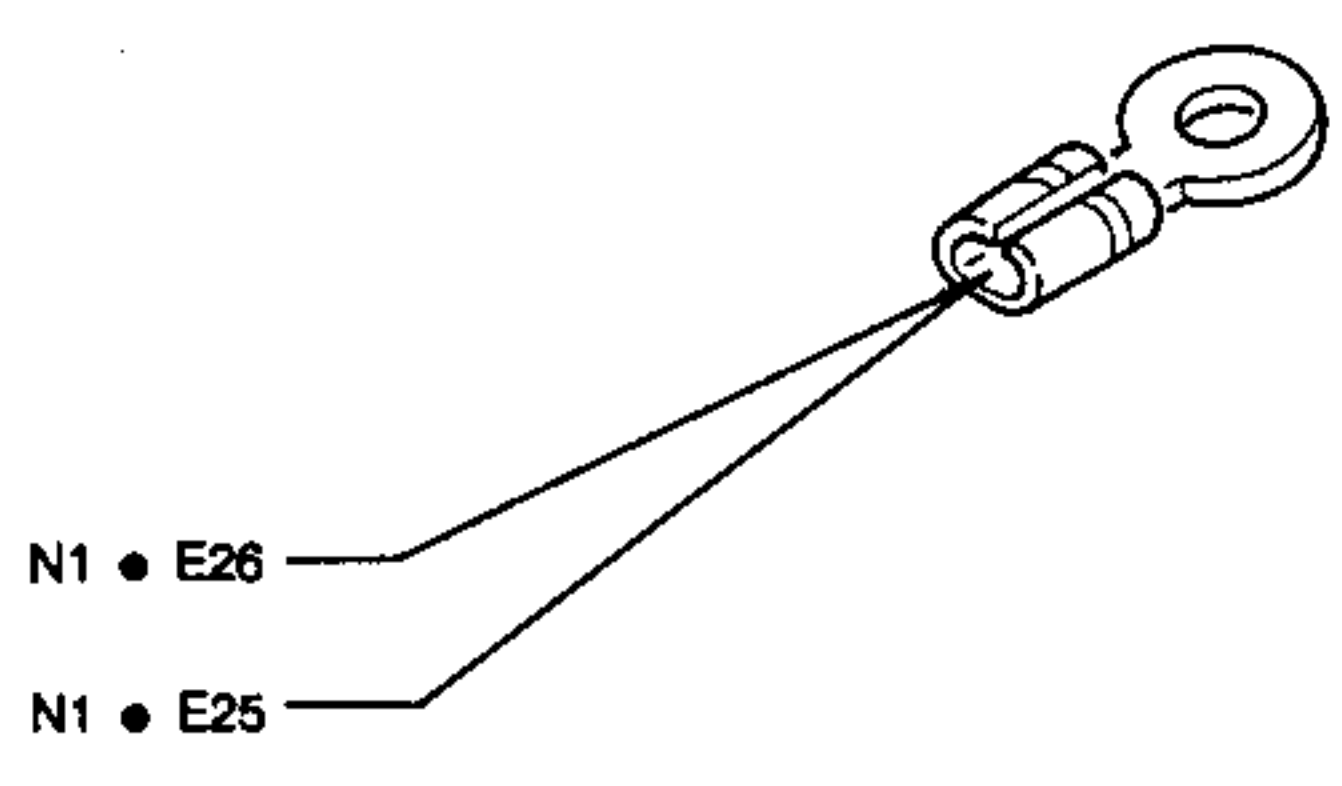
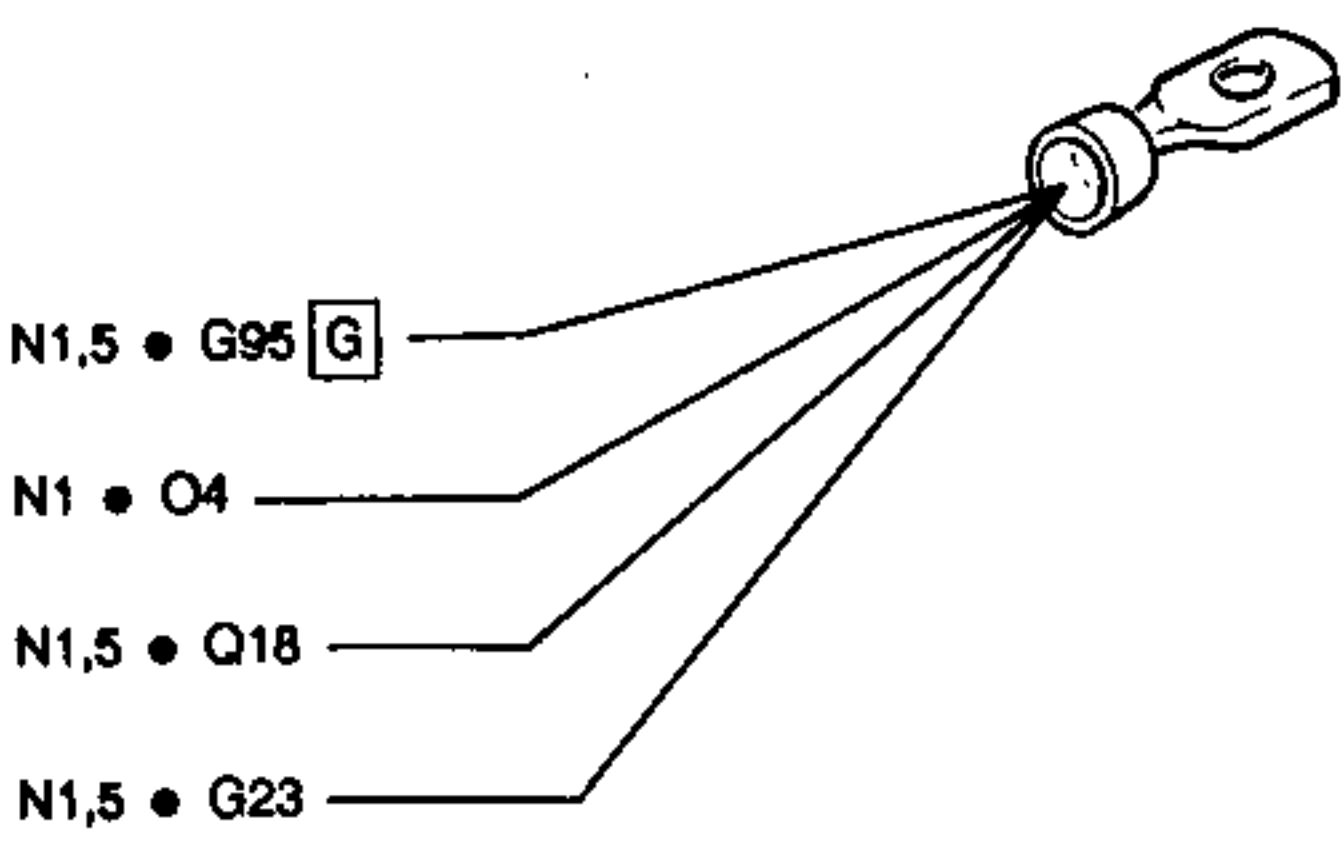
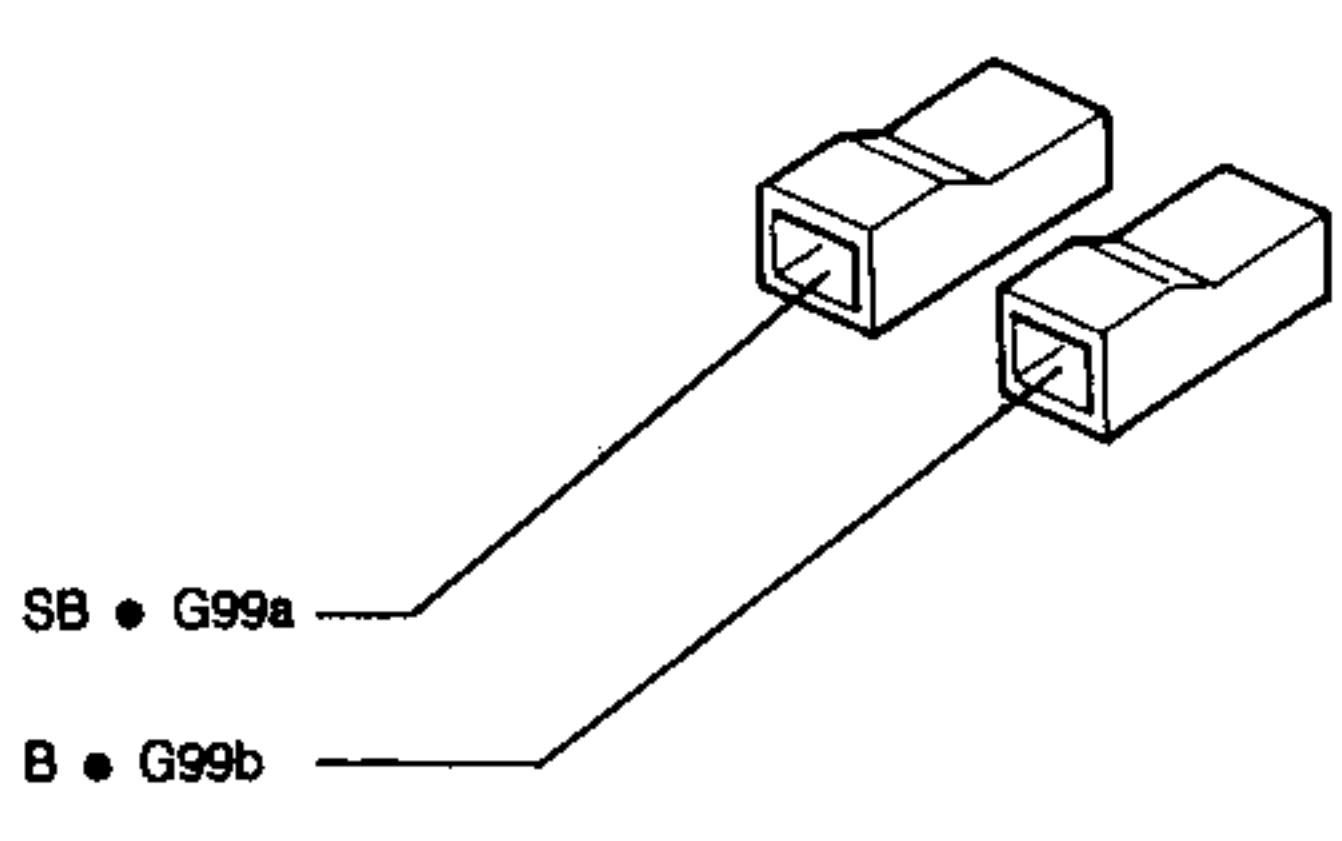
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p> <p style="text-align: right;">33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p style="text-align: right;">33.90.002</p>	
Ignition switch	B1	Right tail light (fixed part)	E25
 <p>S • G95 [H] 1</p> <p>R2,5 • G56 3</p> <p style="text-align: right;">33.90.028</p>		 <p>B • G95 [C] 3</p> <p>N1 • G185 6</p> <p>N • F5 6</p> <p style="text-align: right;">33.90.033</p>	
Branch terminal board	G56	Central fusebox (+)	G95
 <p>R2,5 • B68 [A]</p> <p>R2,5 • B1</p> <p>R10 • G95 (+)</p> <p>R10 • A1 (+)</p> <p style="text-align: right;">33.90.011</p>		 <p>R10 • G56</p> <p style="text-align: right;">33.90.006</p>	



ELECTRICAL SYSTEM

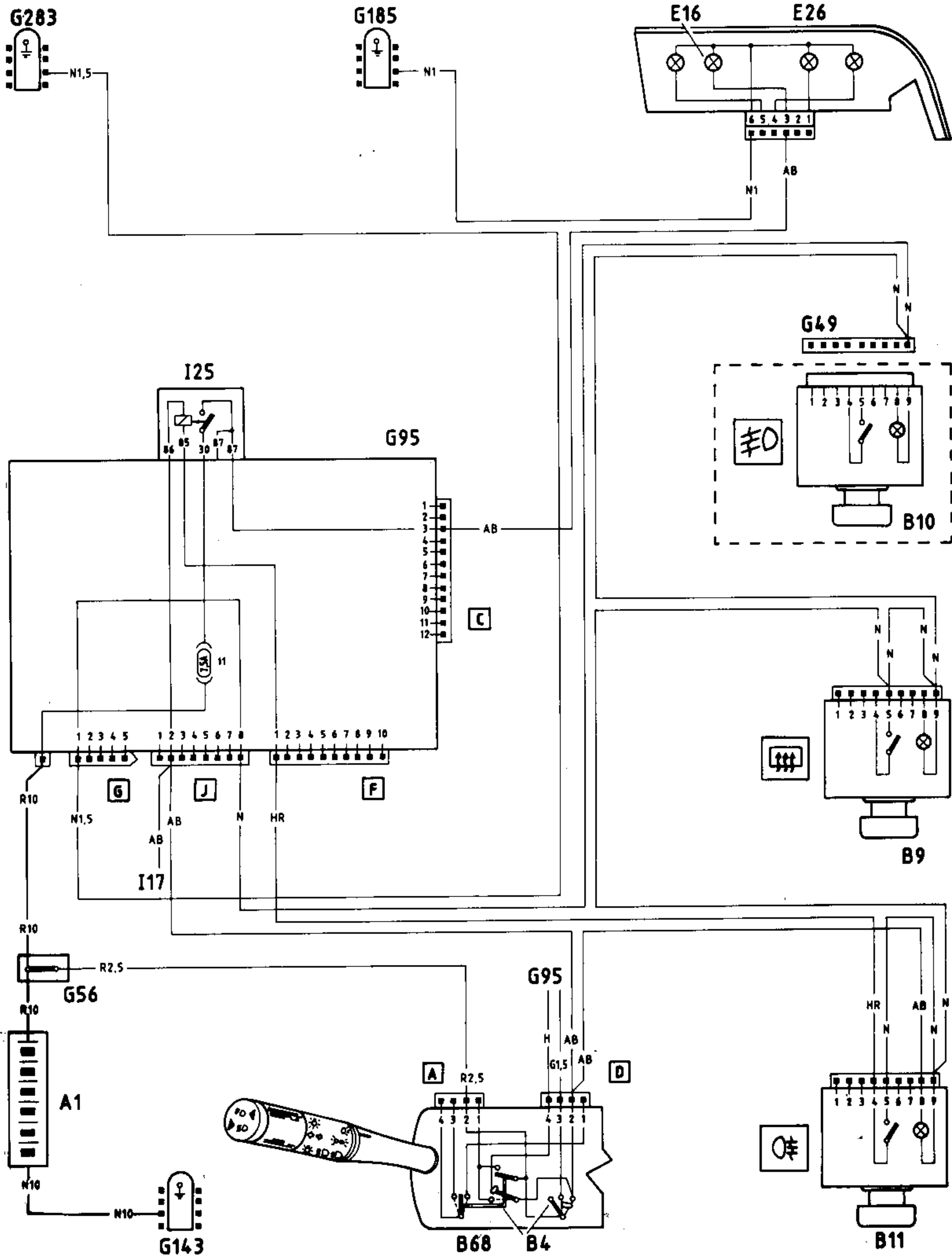
<p>Central fusebox</p>	<p>G95 A</p>	<p>Central fusebox</p>	<p>G95 C</p>
 <p>SB • G99a 9 B • G99b 3</p> <p>33.90.004</p>		 <p>B • E25 7</p> <p>33.90.004</p>	
<p>Central fusebox</p>	<p>G95 G</p>	<p>Central fusebox</p>	<p>G95 H</p>
 <p>N1,5 • G283 1</p> <p>33.90.005</p>		 <p>S • B1 1</p> <p>33.90.004</p>	
<p>Connector for engine dashboard A</p>	<p>G99a</p>	<p>Connector for engine dashboard B</p>	<p>G99b</p>
 <p>SB • G95 A 5 SB • H2 5</p> <p>33.90.016</p>		 <p>B • G95 A 12 B • H2 12</p> <p>33.90.016</p>	

# ELECTRICAL SYSTEM

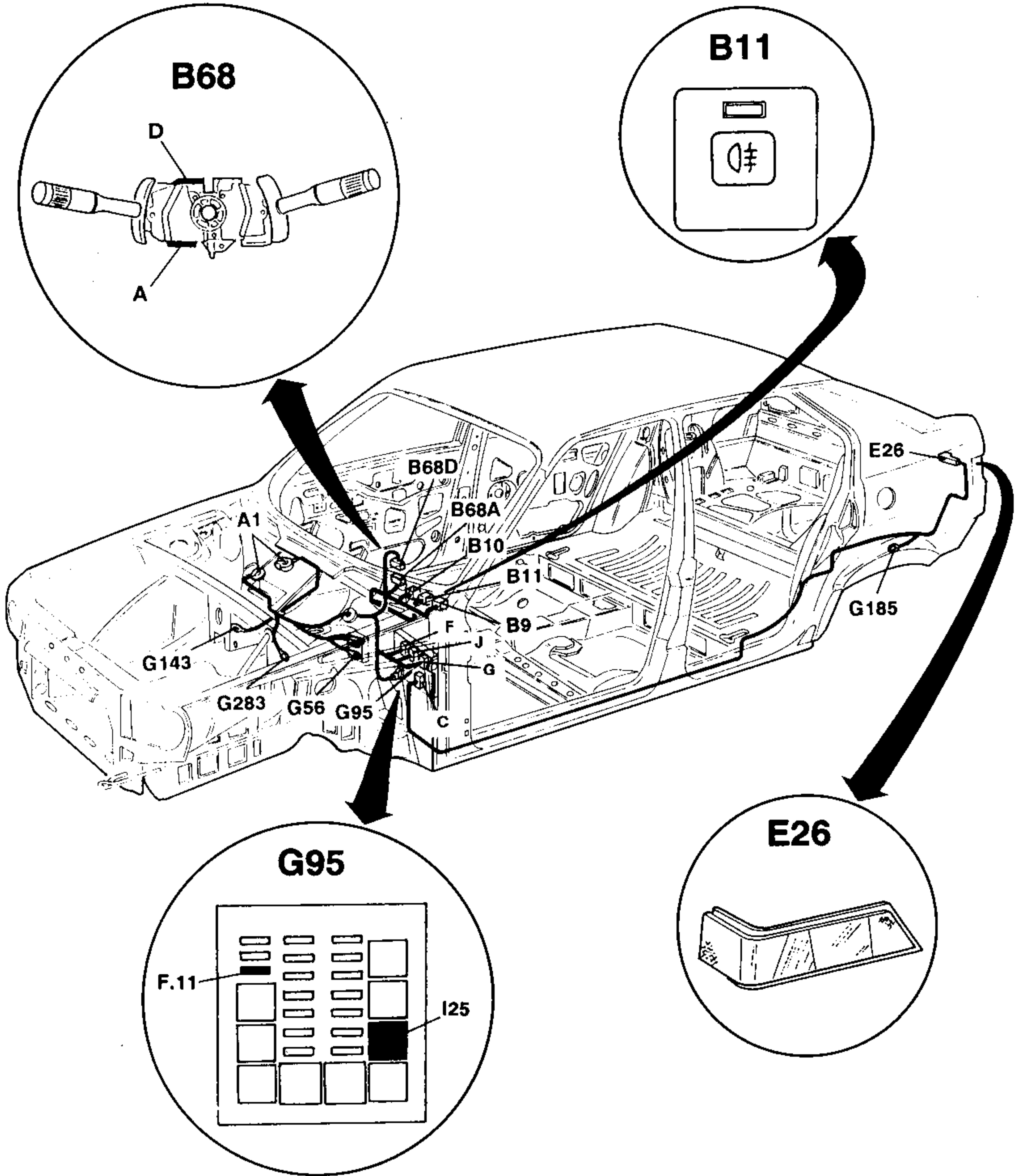
Central service compartment earth	G143	Luggage compartment earth - left side	G185
 <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>		 <p>N1 • E26</p> <p>N1 • E25</p> <p style="text-align: right;">33.90.032</p>	
Earth on left service compartment	G283	Reversing light switch	H2
 <p>N1,5 • G95 <span style="border: 1px solid black; padding: 0 2px;">G</span></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p style="text-align: right;">33.90.001</p>		 <p>SB • G99a</p> <p>B • G99b</p> <p style="text-align: right;">33.90.015</p>	

REAR FOG LAMP

Wiring diagram

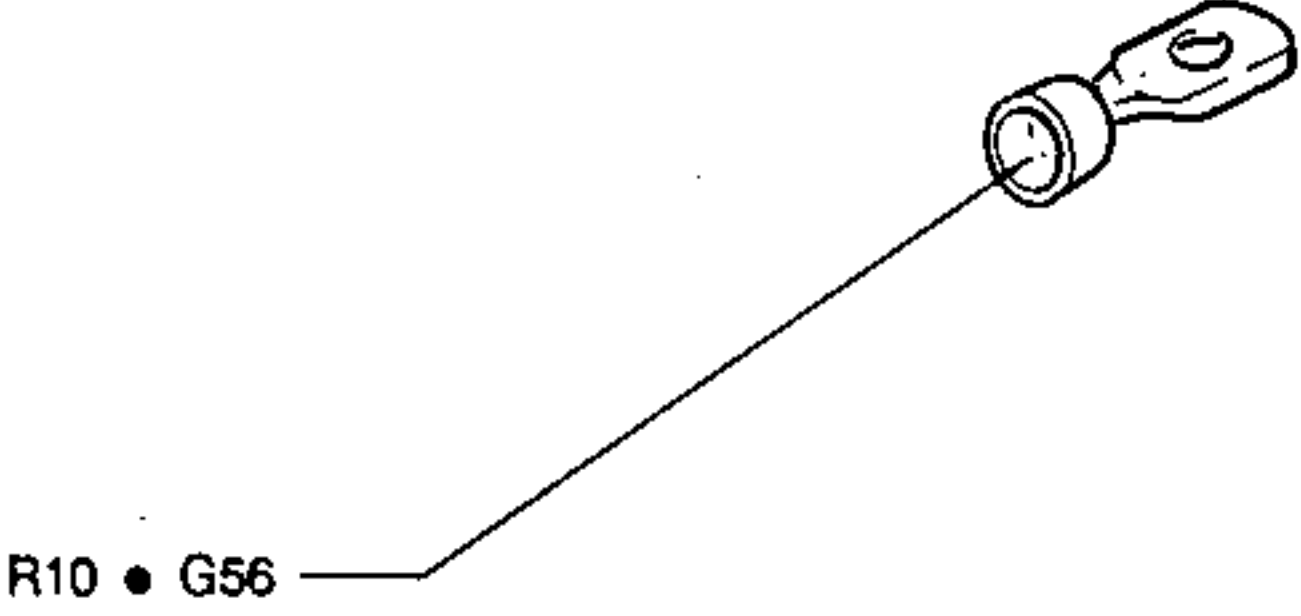
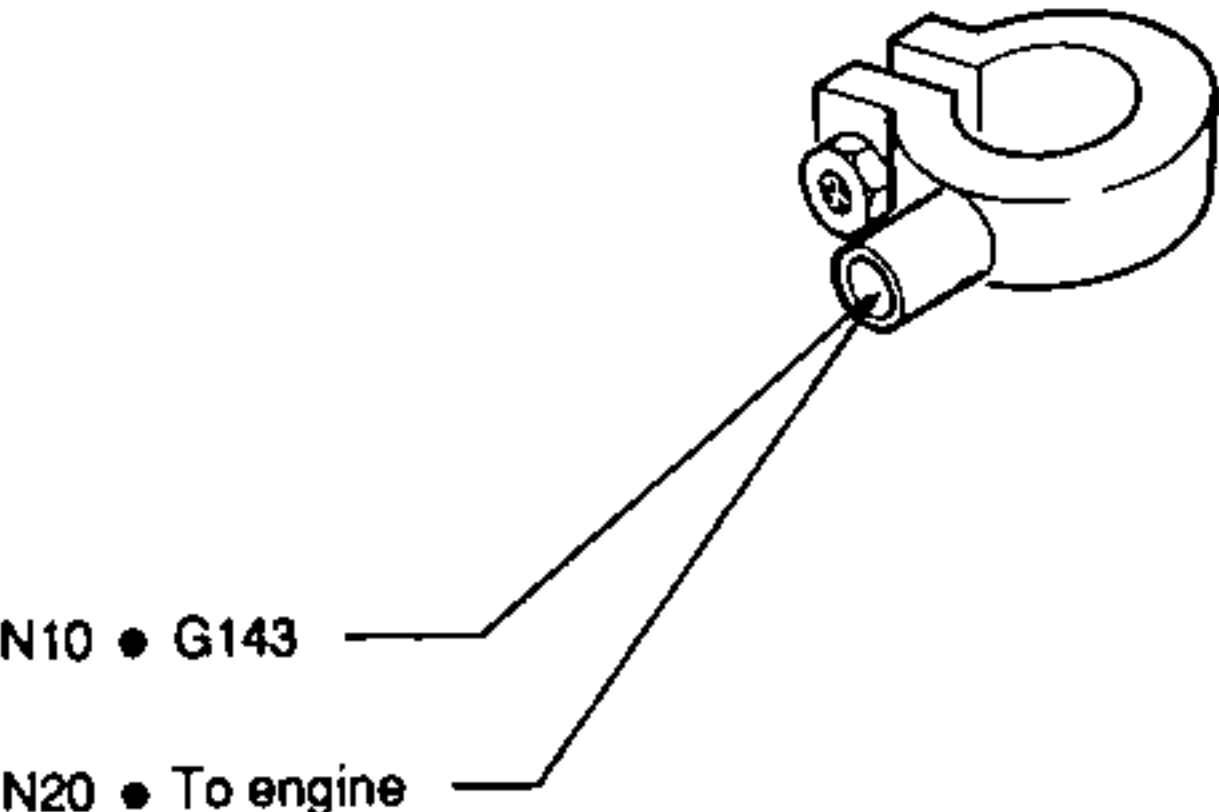
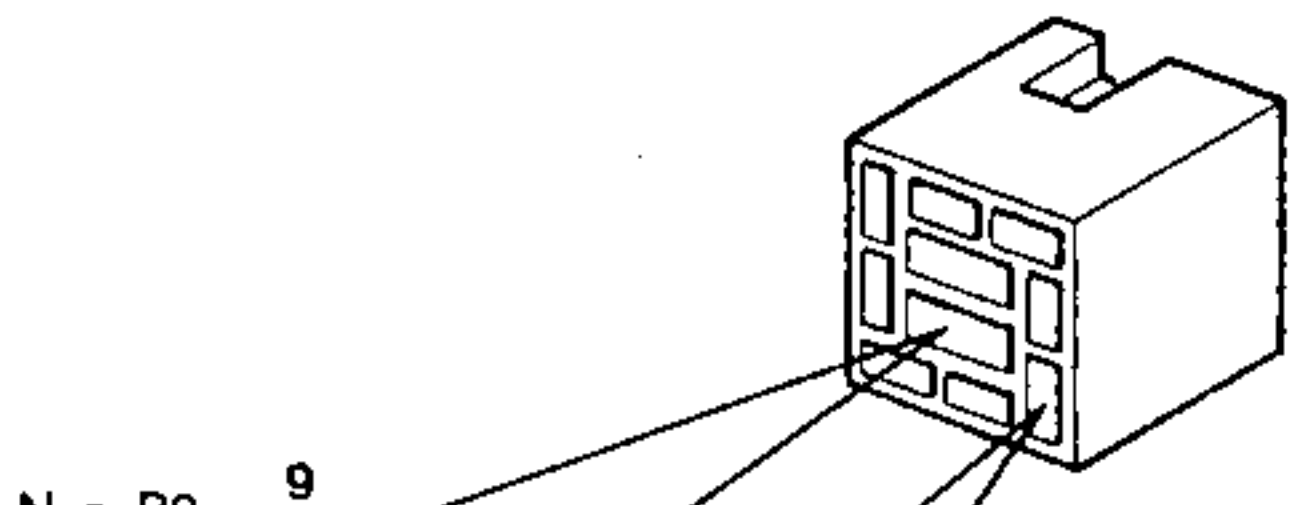
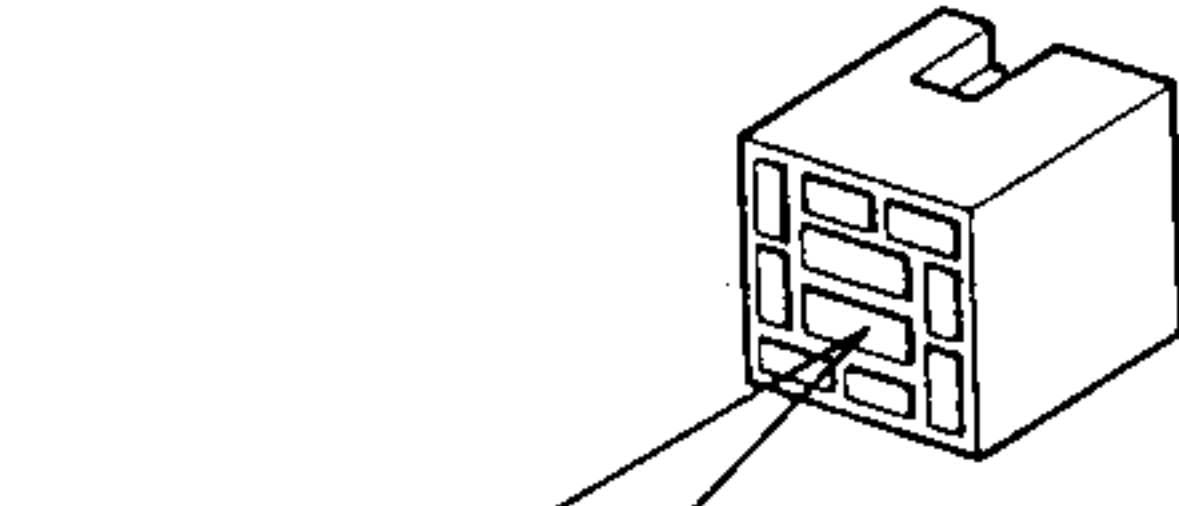
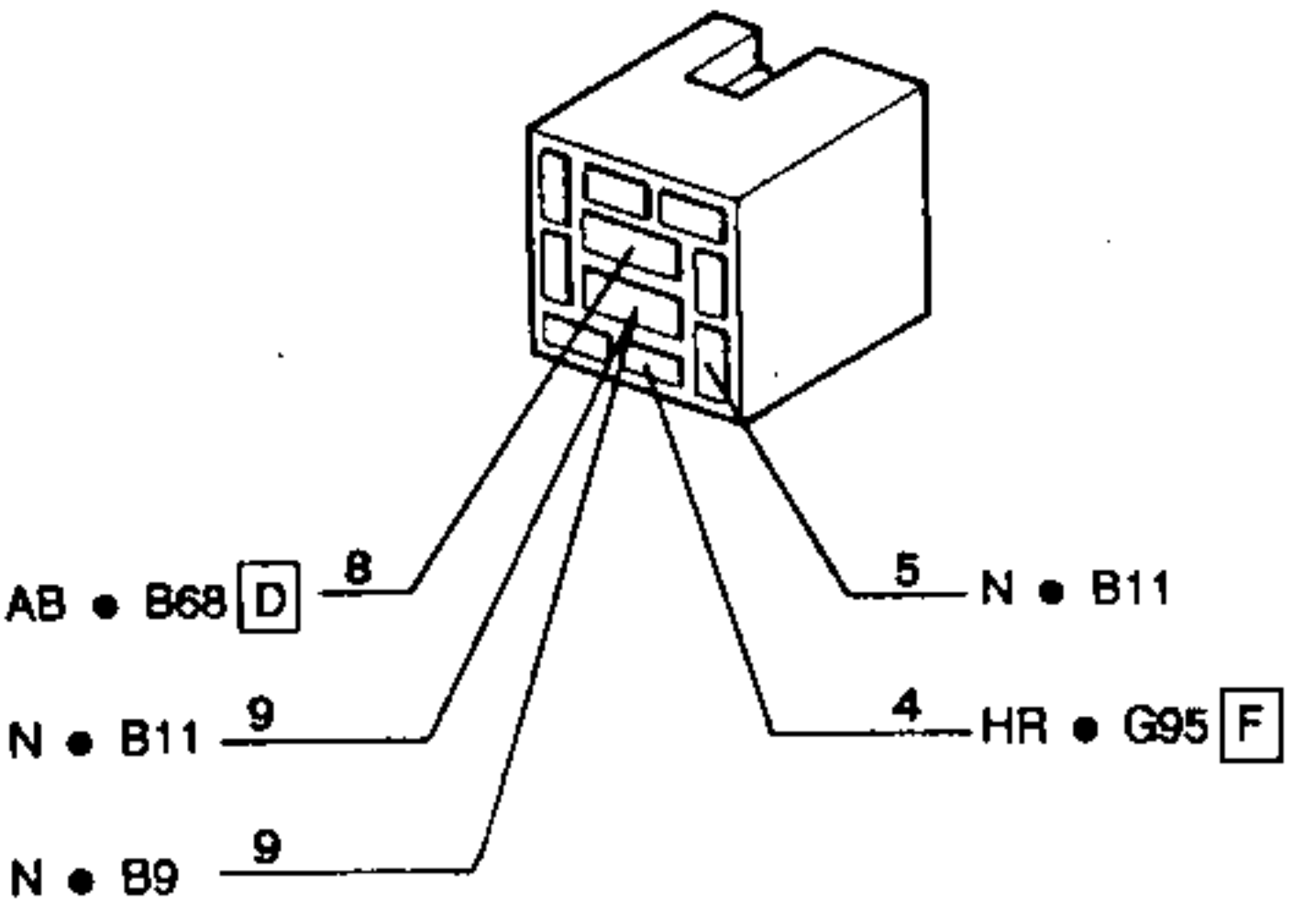
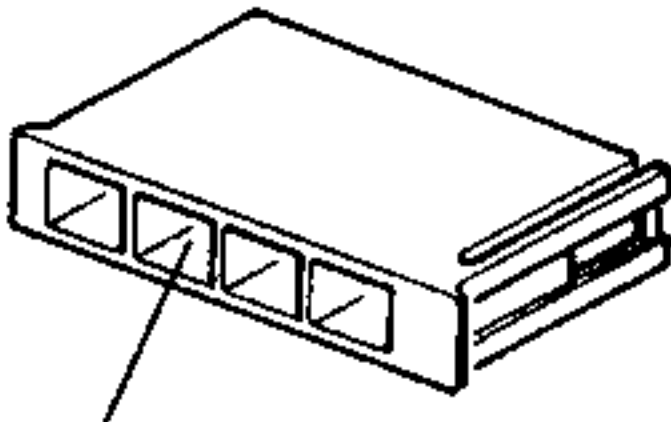


Wiring

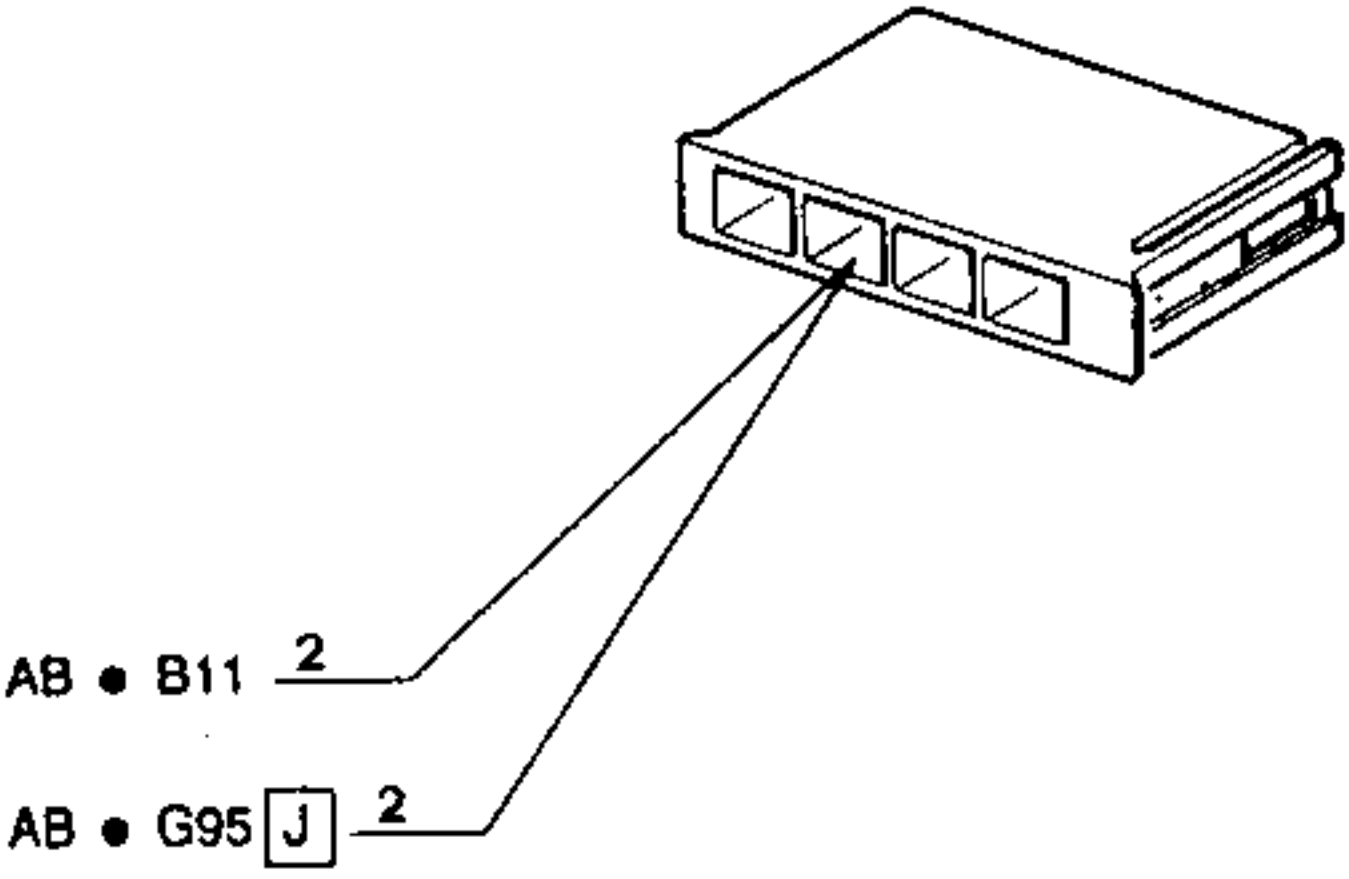
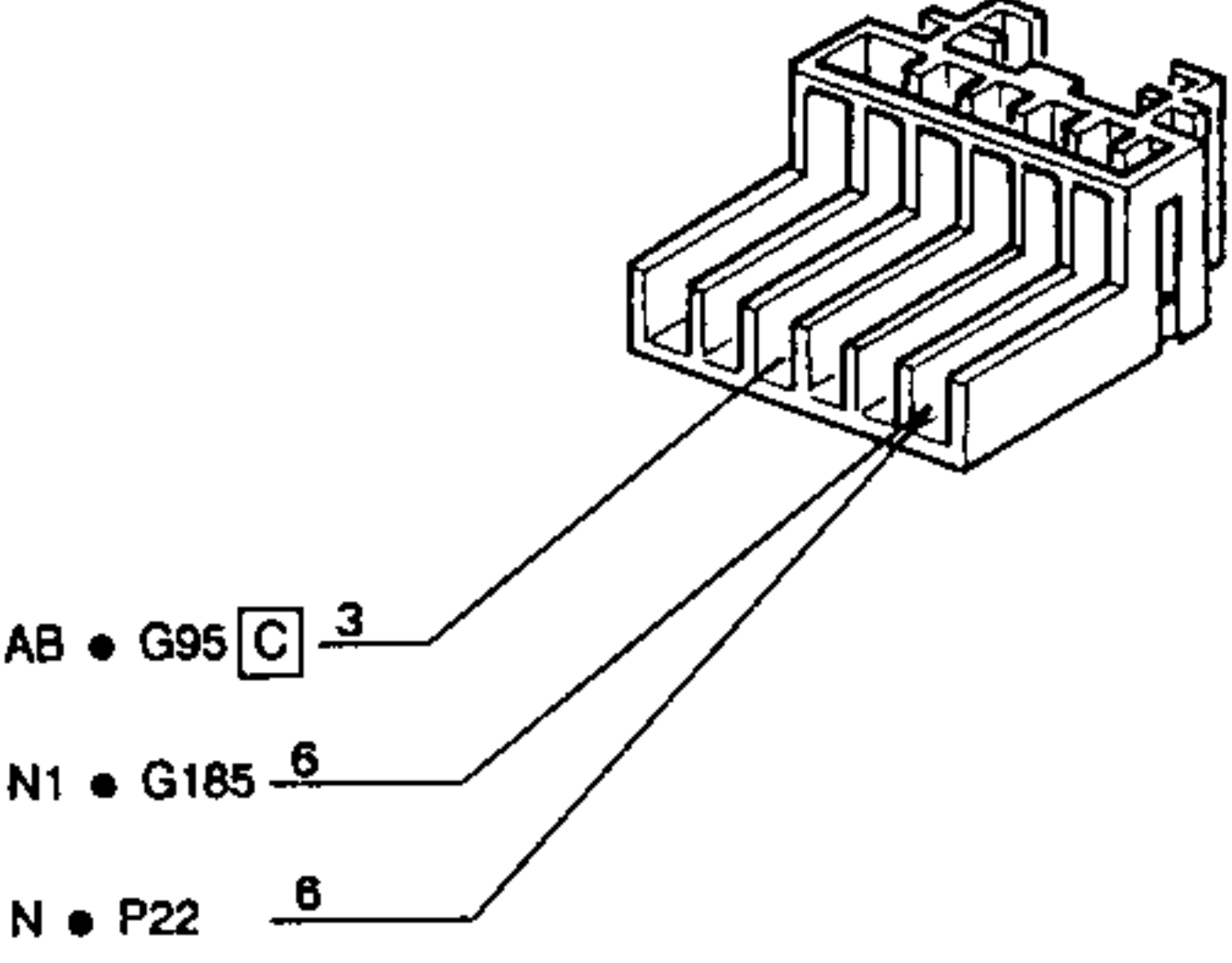
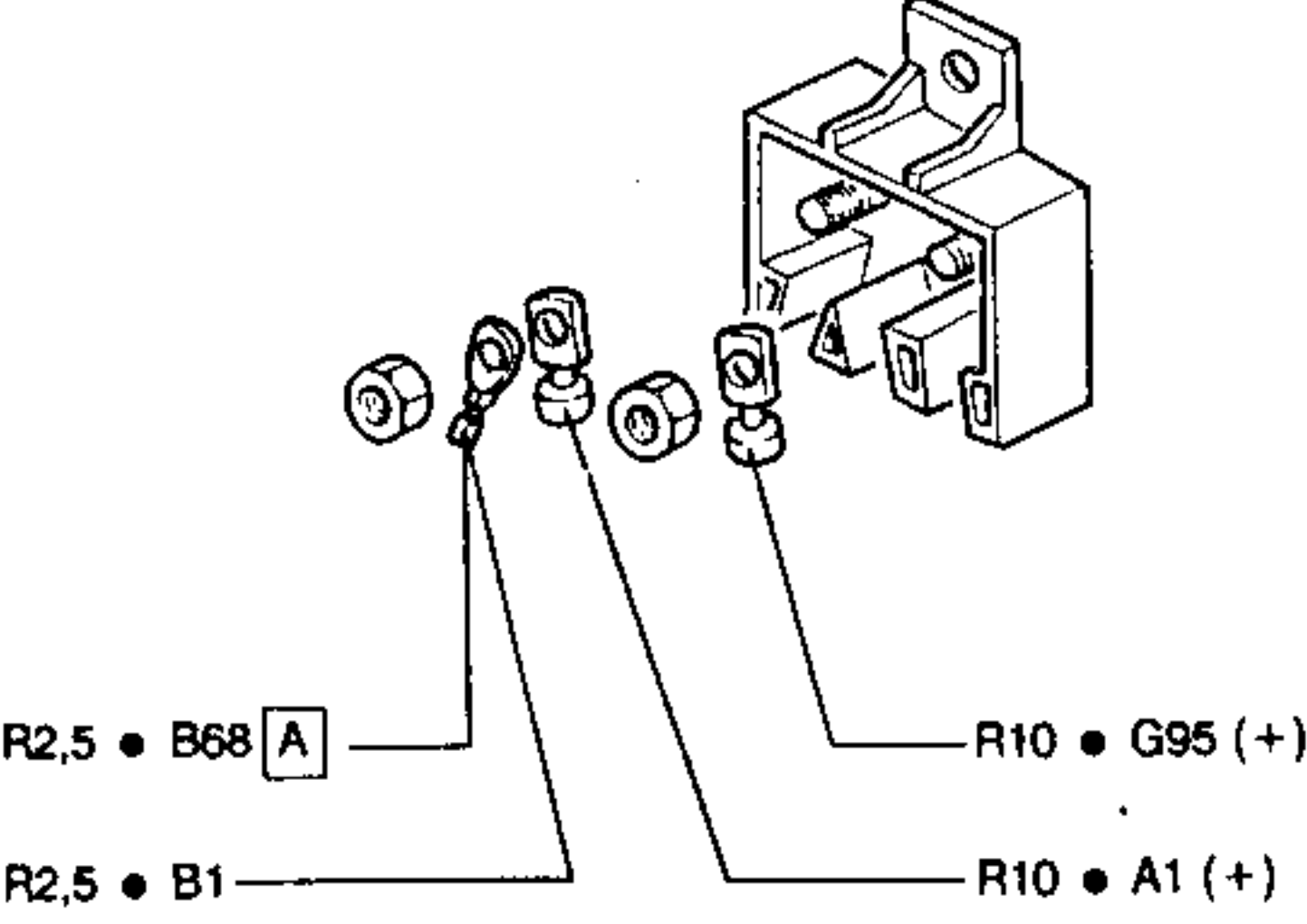
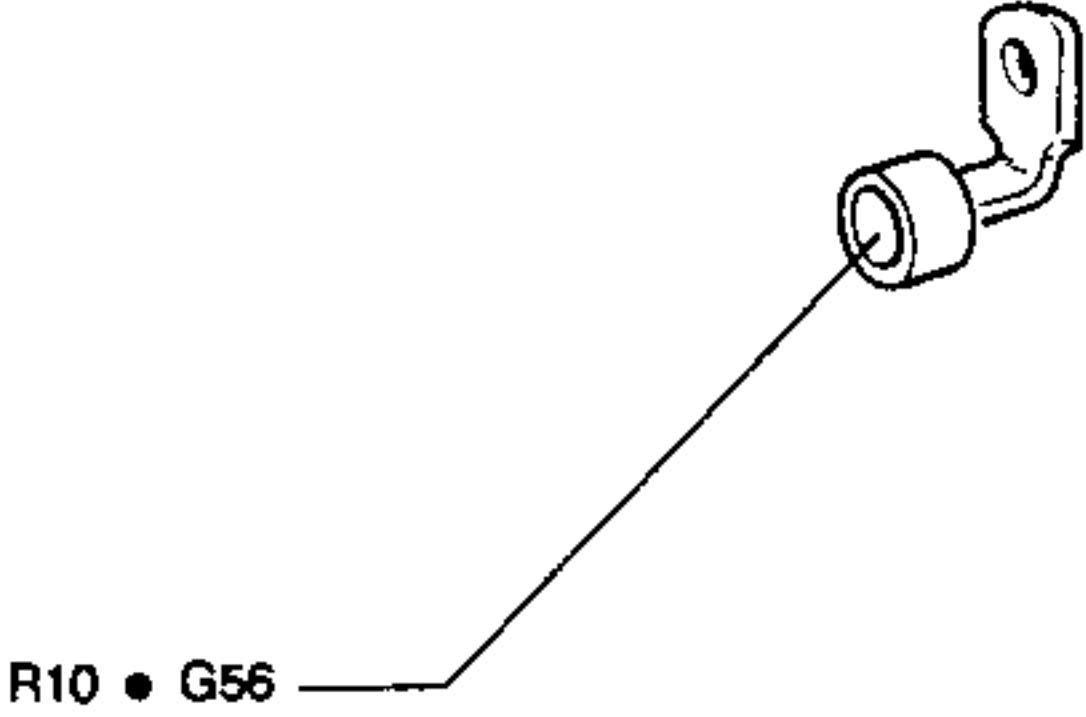
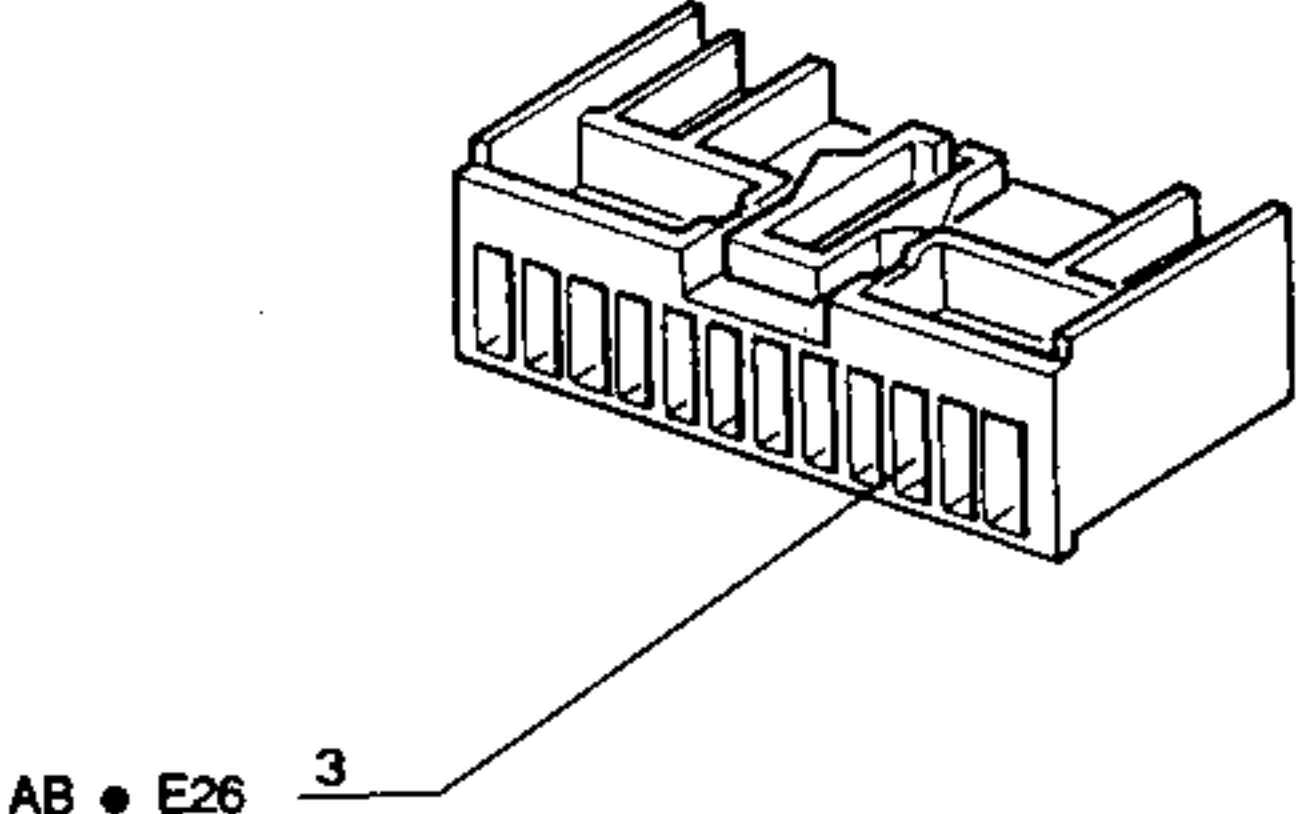
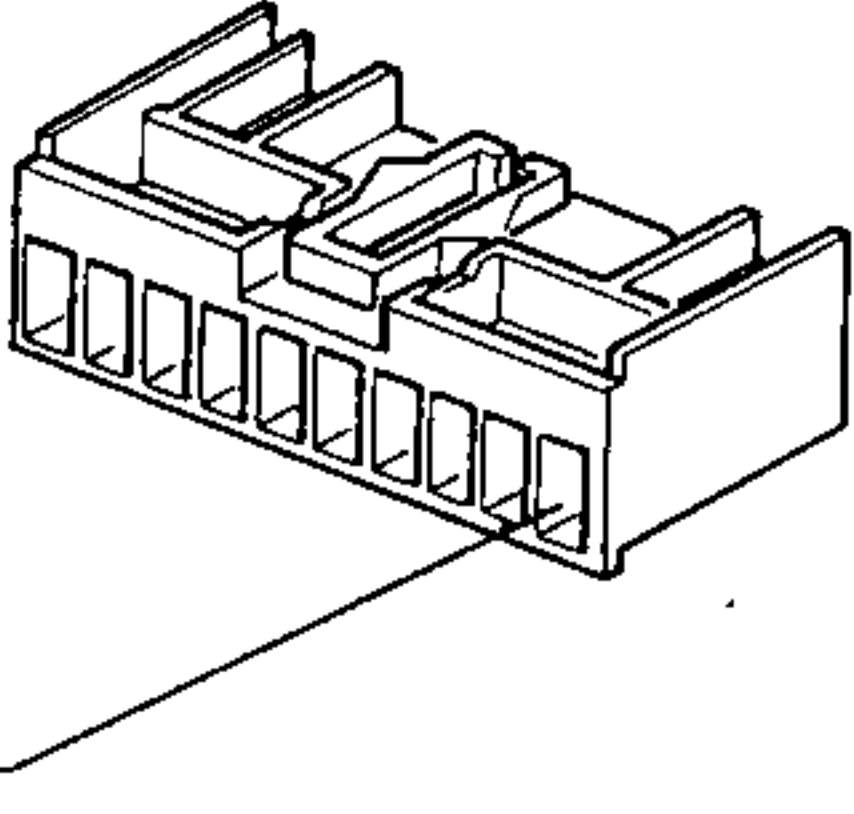


ELECTRICAL SYSTEM

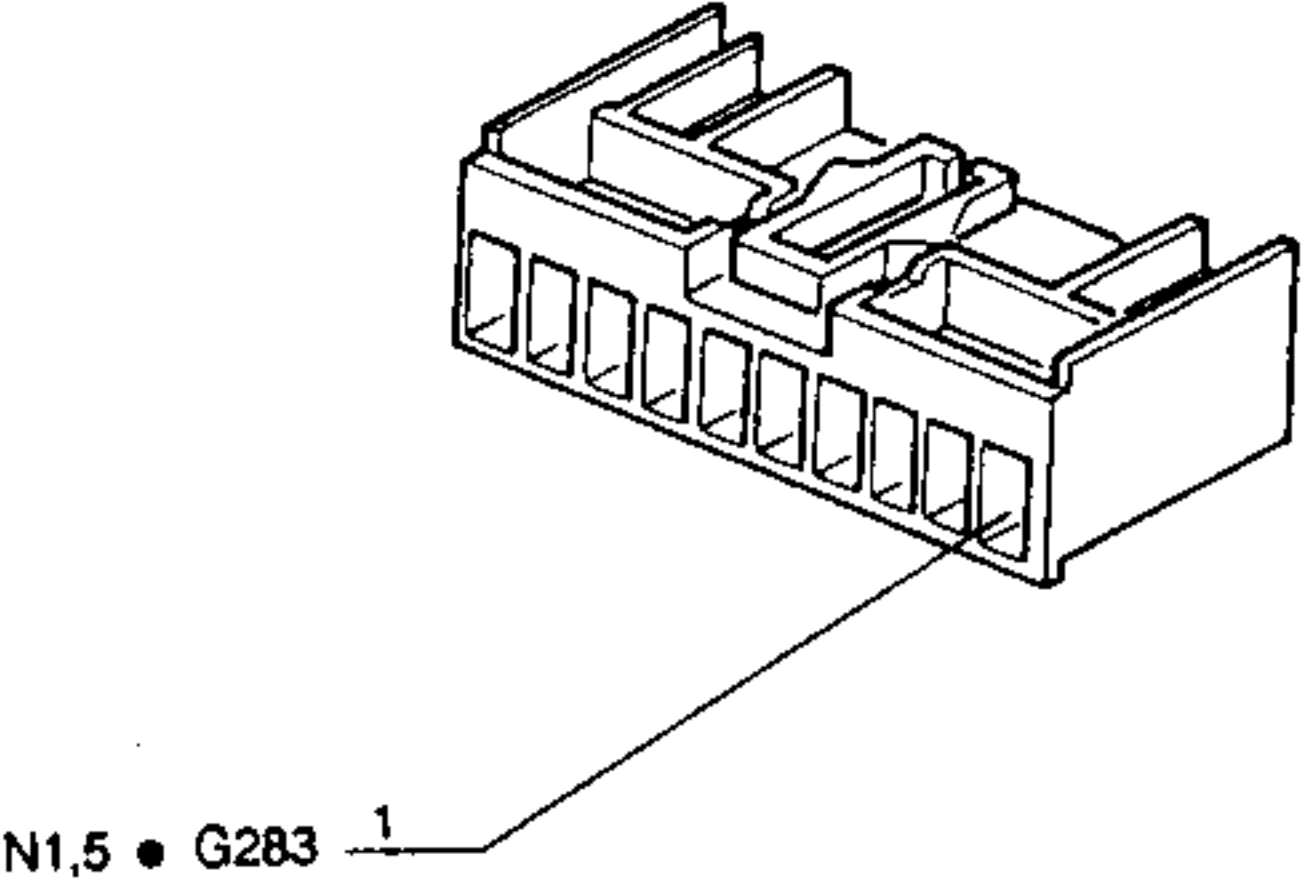
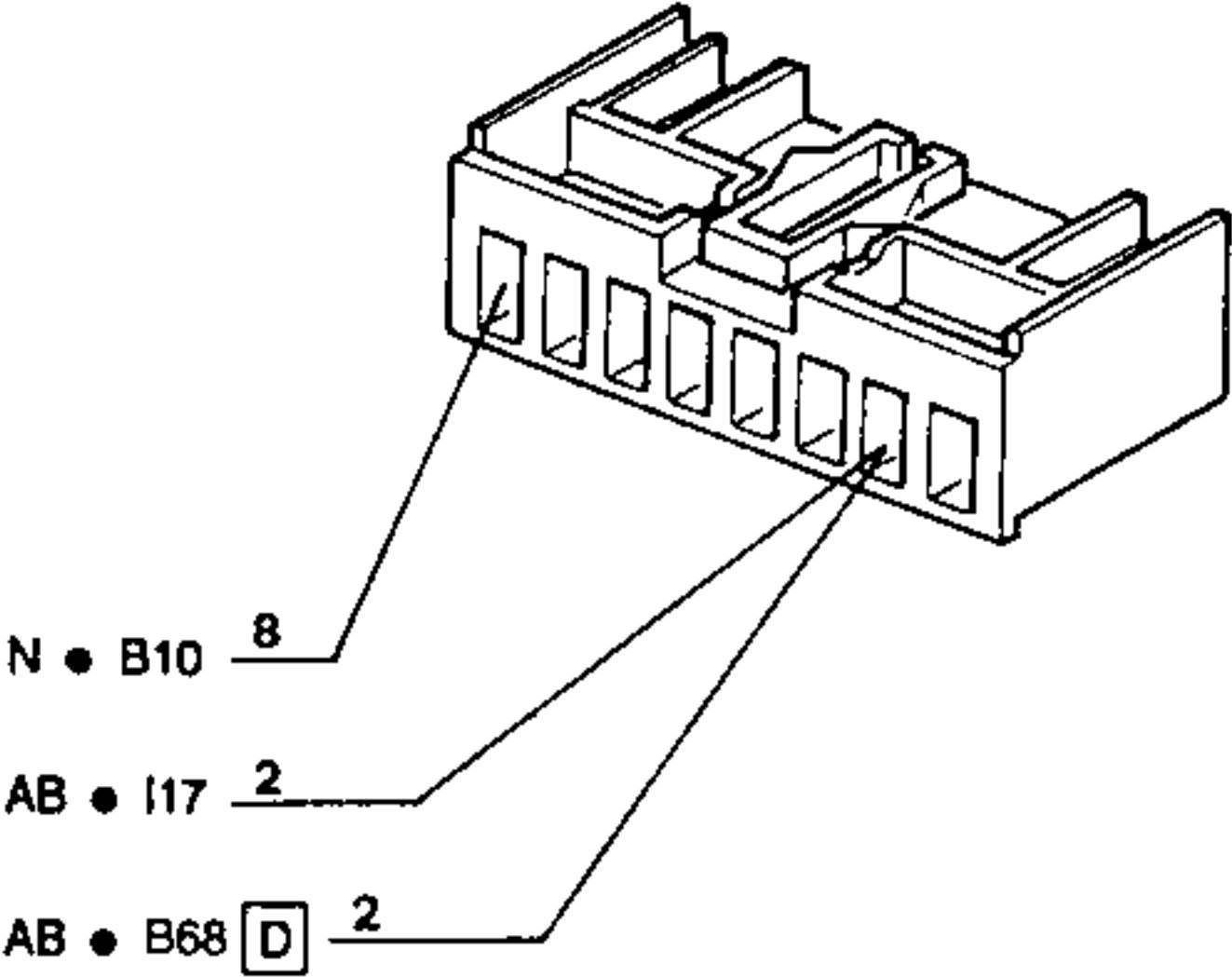
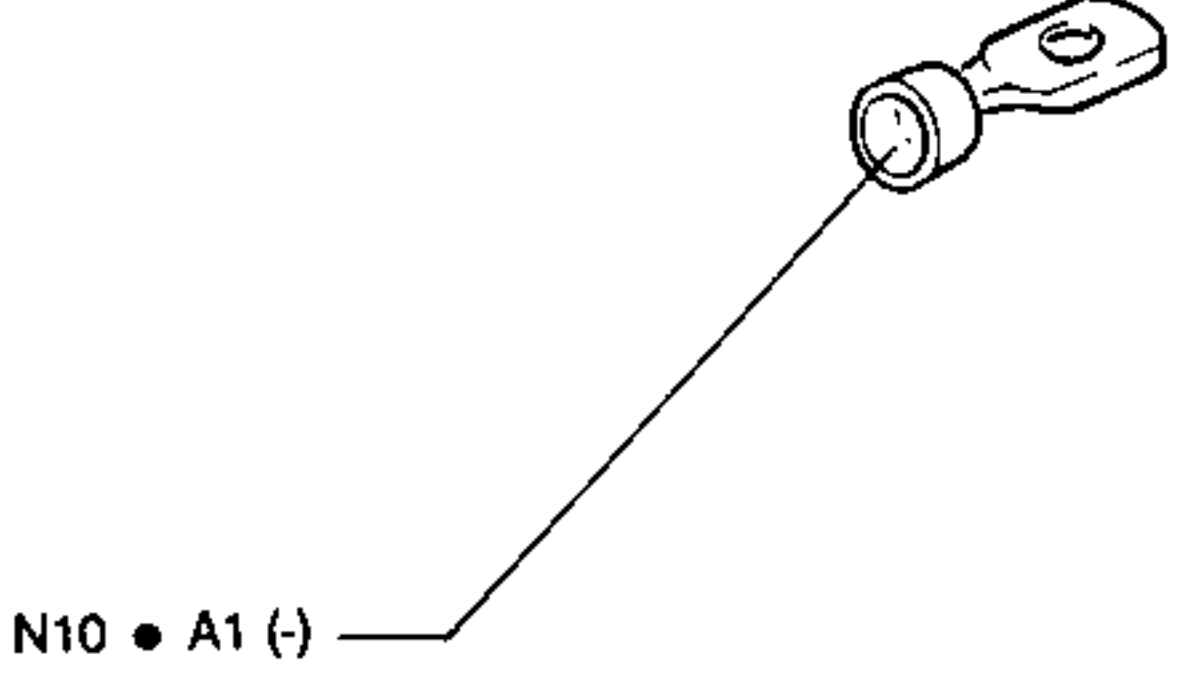
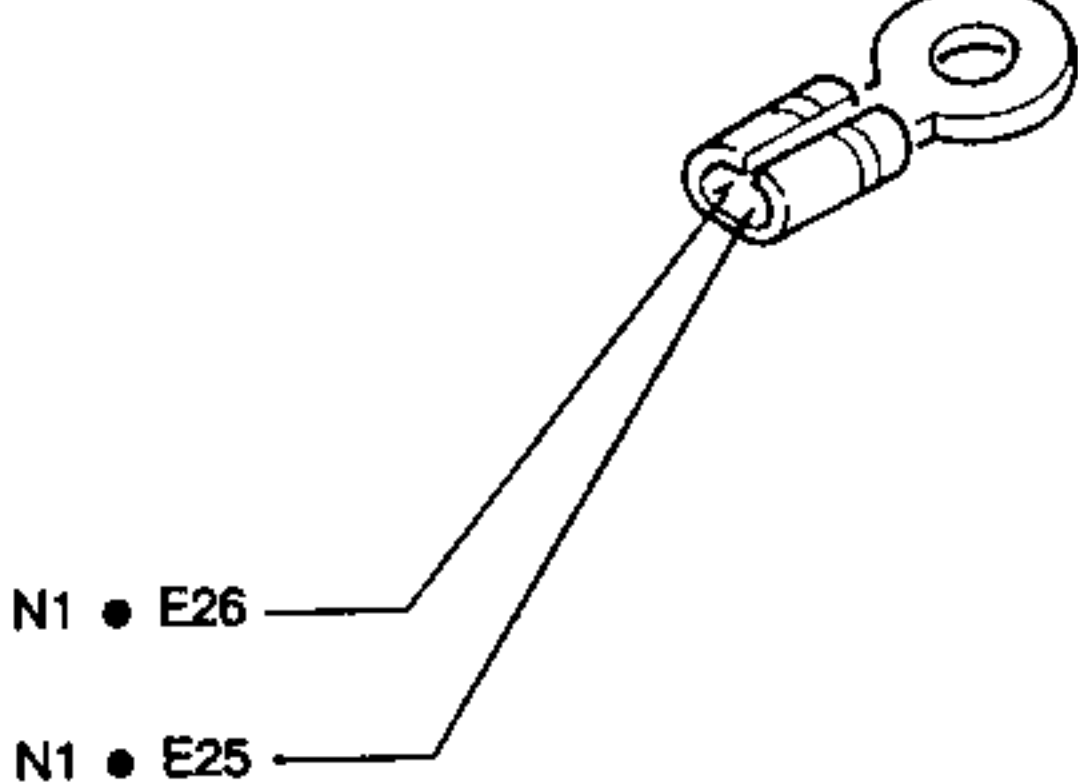
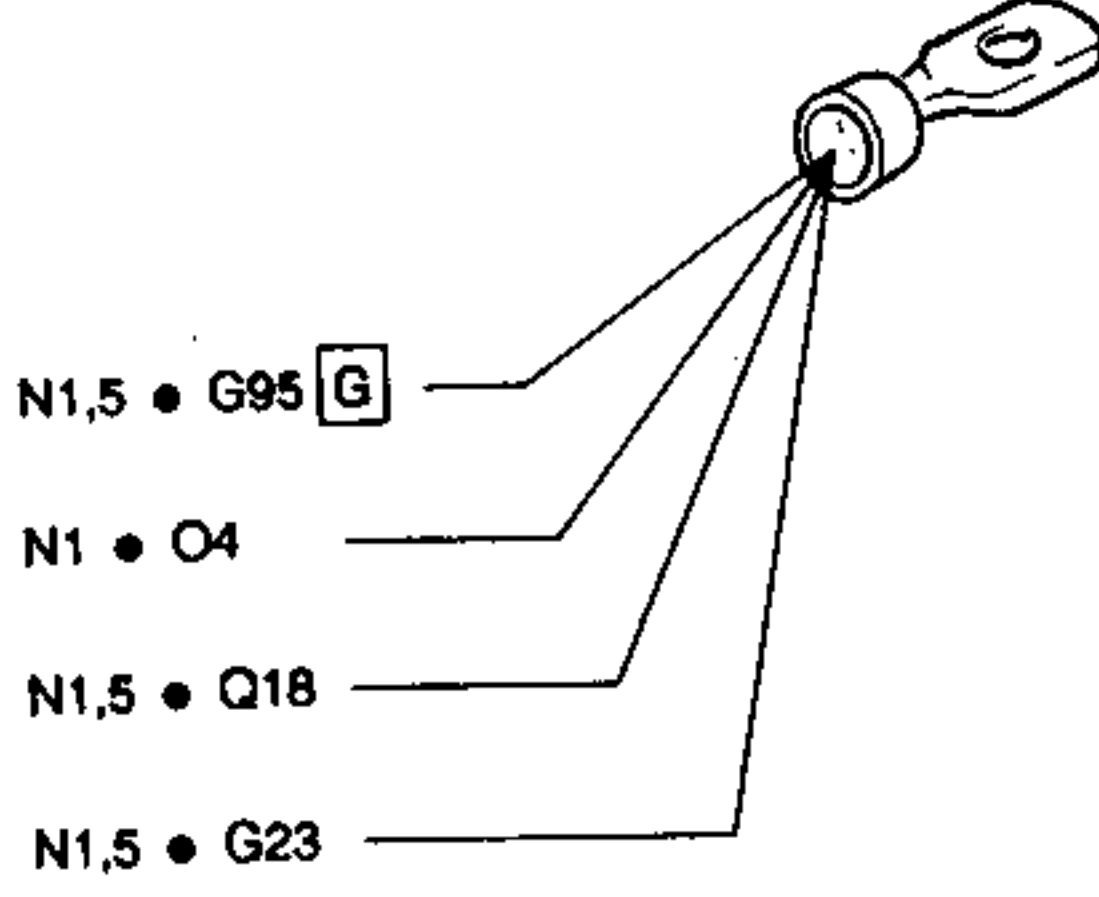
Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
Heated rear window control switch	B9	Fog lamp control switch	B10
 <p>N • B9 9</p> <p>N • B10 9</p> <p>N • B9 5</p> <p>N • B11 5</p> <p>33.90.008</p>		 <p>N • B9 9</p> <p>N • G95 J 9</p> <p>33.90.008</p>	
Rear fog lamp control switch	B11	Turn signal switch unit	B68 A
 <p>AB • B68 D 8</p> <p>N • B11 9</p> <p>N • B9 9</p> <p>5 N • B11</p> <p>4 HR • G95 F</p> <p>33.90.008</p>		 <p>R2,5 • G56 2</p> <p>33.90.027</p>	

ELECTRICAL SYSTEM

<p>Turn signal switch unit</p>	<p>B68 D</p>	<p>Left tail light (fixed part)</p>	<p>E26</p>
 <p>AB • B11 2</p> <p>AB • G95 J 2</p> <p>33.90.027</p>		 <p>AB • G95 C 3</p> <p>N1 • G185 6</p> <p>N • P22 6</p> <p>33.90.033</p>	
<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox (+)</p>	<p>G95</p>
 <p>R2,5 • B68 A</p> <p>R2,5 • B1</p> <p>R10 • G95 (+)</p> <p>R10 • A1 (+)</p> <p>33.90.011</p>		 <p>R10 • G56</p> <p>33.90.006</p>	
<p>Central fusebox</p>	<p>G95 C</p>	<p>Central fusebox</p>	<p>G95 F</p>
 <p>AB • E26 3</p> <p>33.90.004</p>		 <p>HR • B11 1</p> <p>33.90.005</p>	

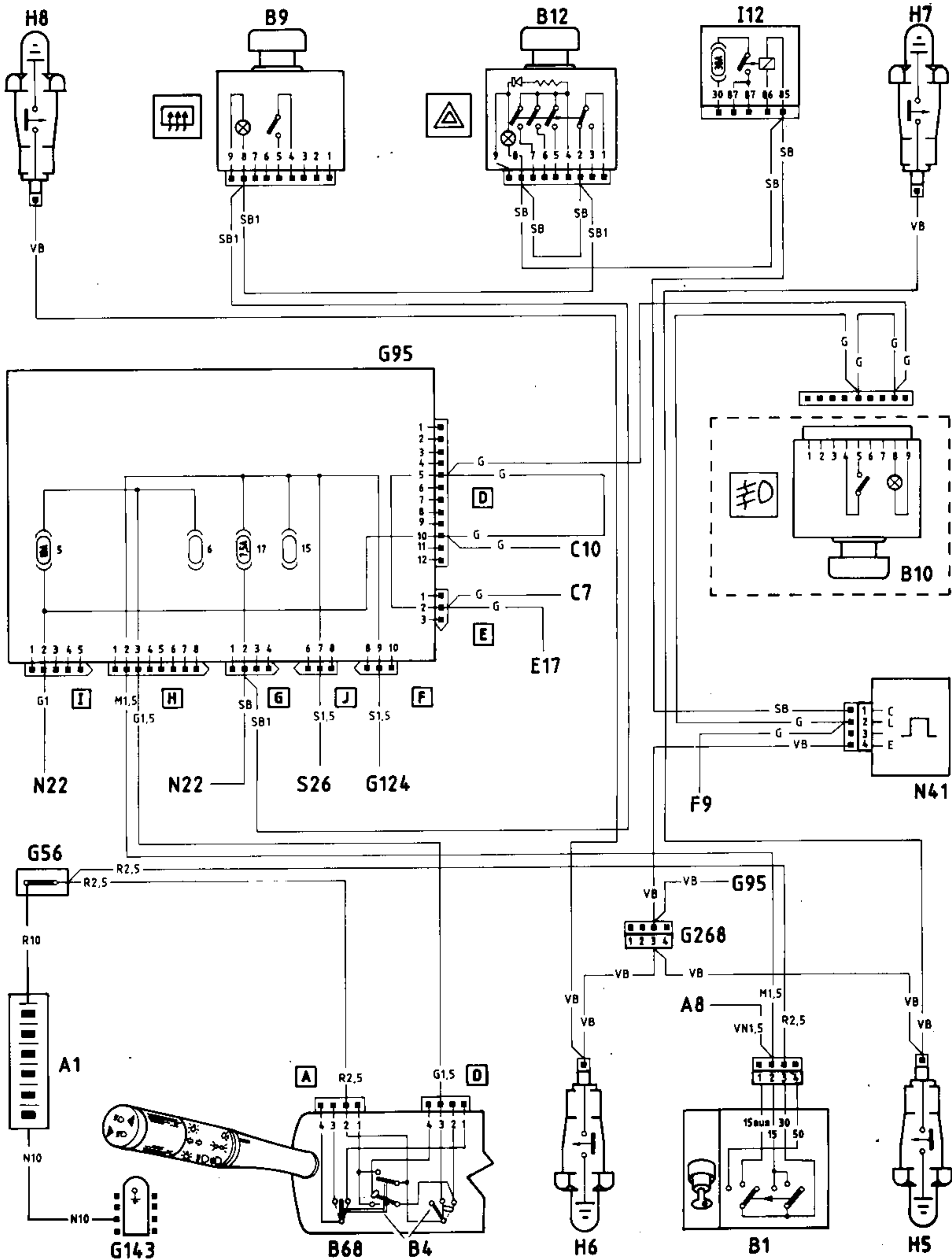
ELECTRICAL SYSTEM

<p>Central fusebox</p>	<p>G95 <b>G</b></p>	<p>Central fusebox</p>	<p>G95 <b>J</b></p>
 <p>N1,5 • G283 1</p> <p>33.90.005</p>		 <p>N • B10 8</p> <p>AB • I17 2</p> <p>AB • B68 <b>D</b> 2</p> <p>33.90.003</p>	
<p>Central service compartment earth</p>	<p>G143</p>	<p>Luggage compartment earth - left side</p>	<p>G185</p>
 <p>N10 • A1 (-)</p> <p>33.90.001</p>		 <p>N1 • E26</p> <p>N1 • E25</p> <p>33.90.032</p>	
<p>Earth on left service compartment</p>	<p>G283</p>		
 <p>N1,5 • G95 <b>G</b></p> <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p>33.90.001</p>			

# ELECTRICAL SYSTEM

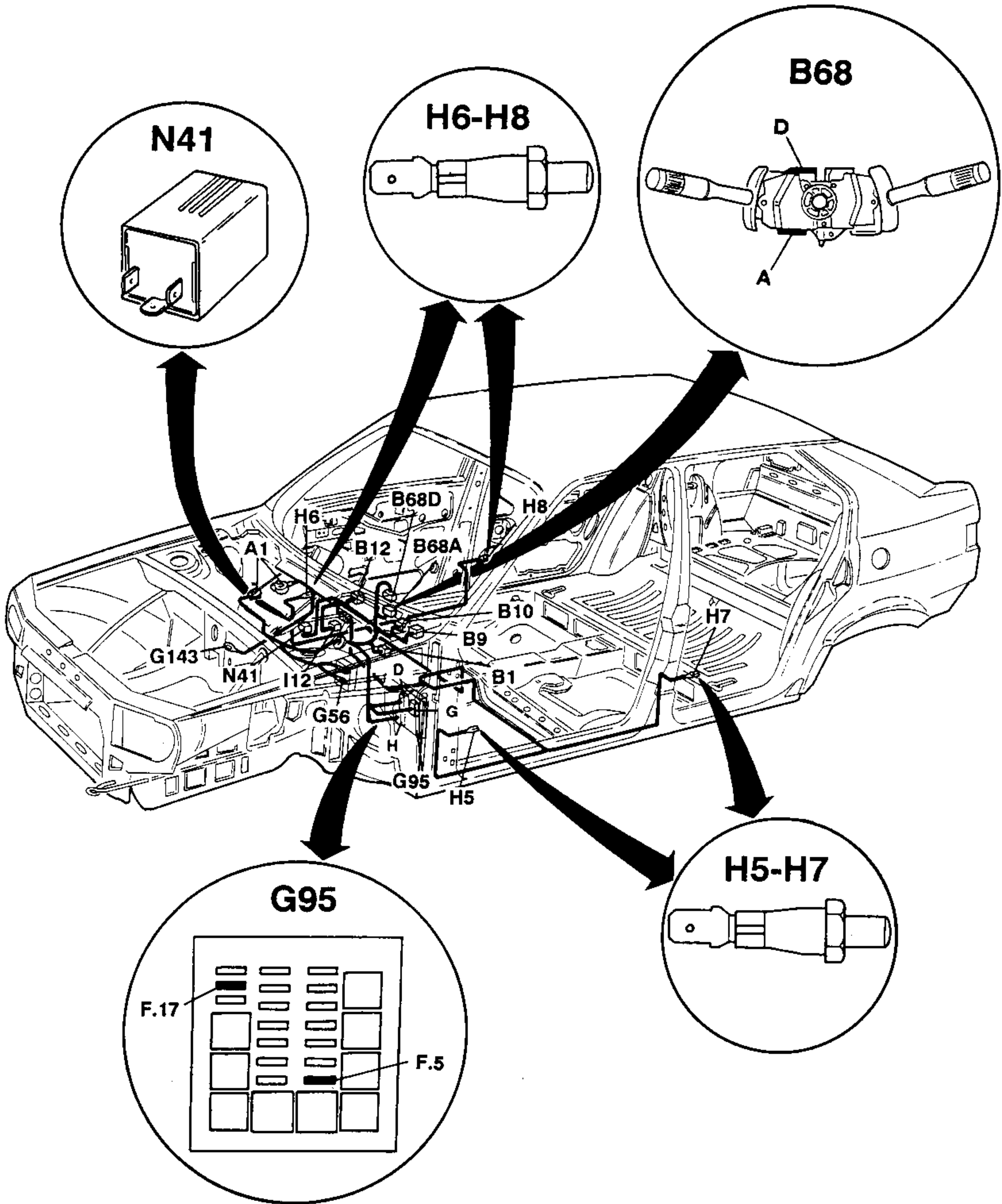
## LIGHTS ON SIGNAL

### Wiring diagram



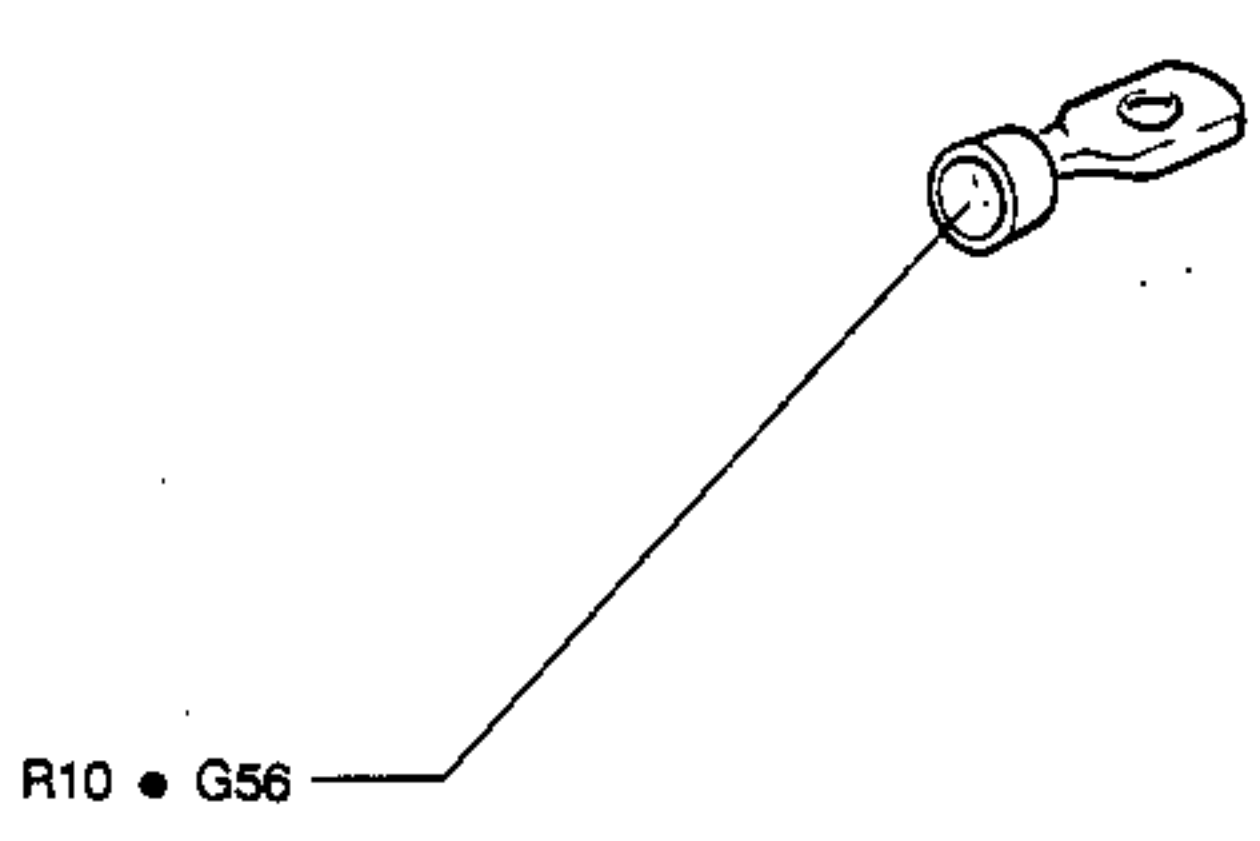
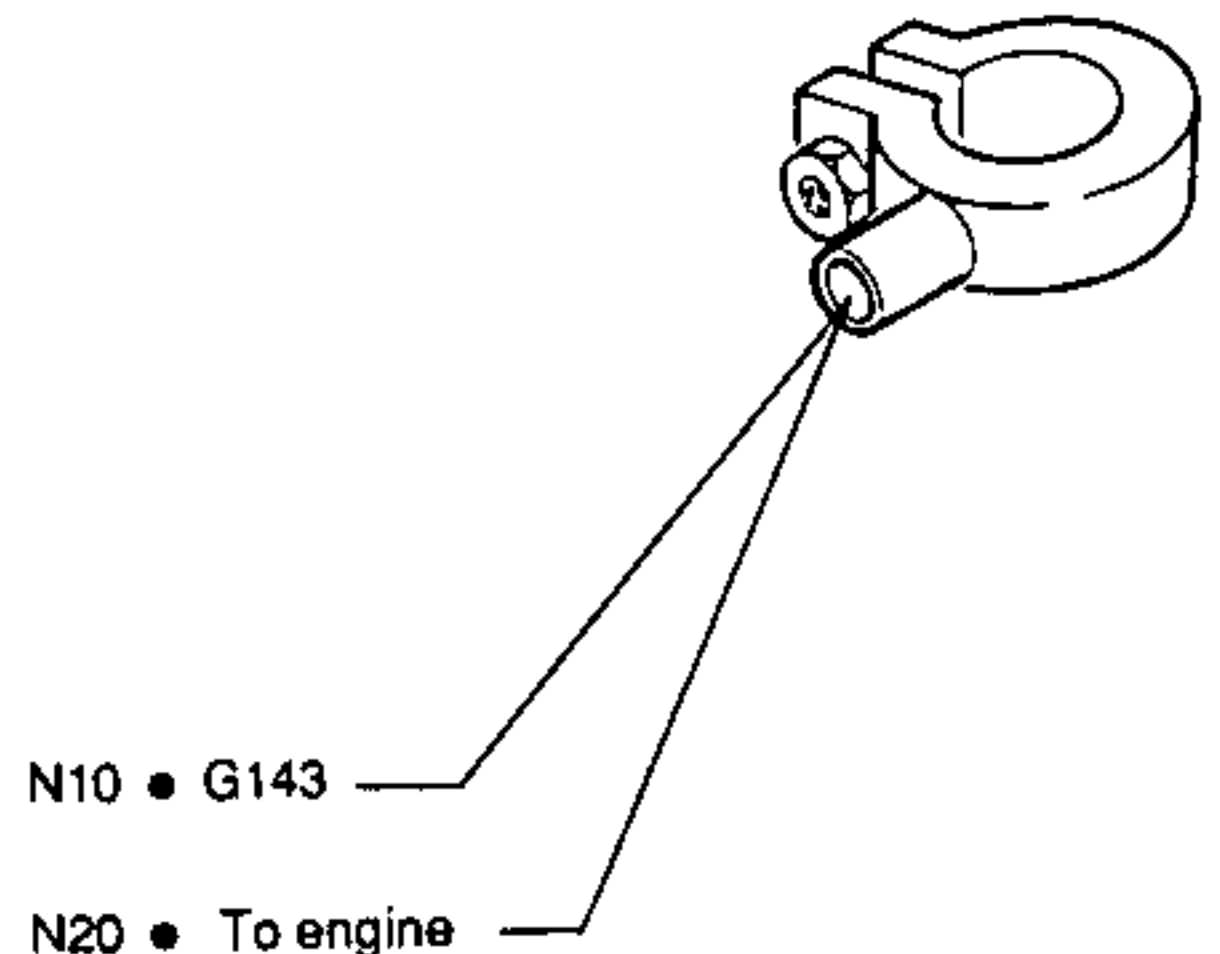
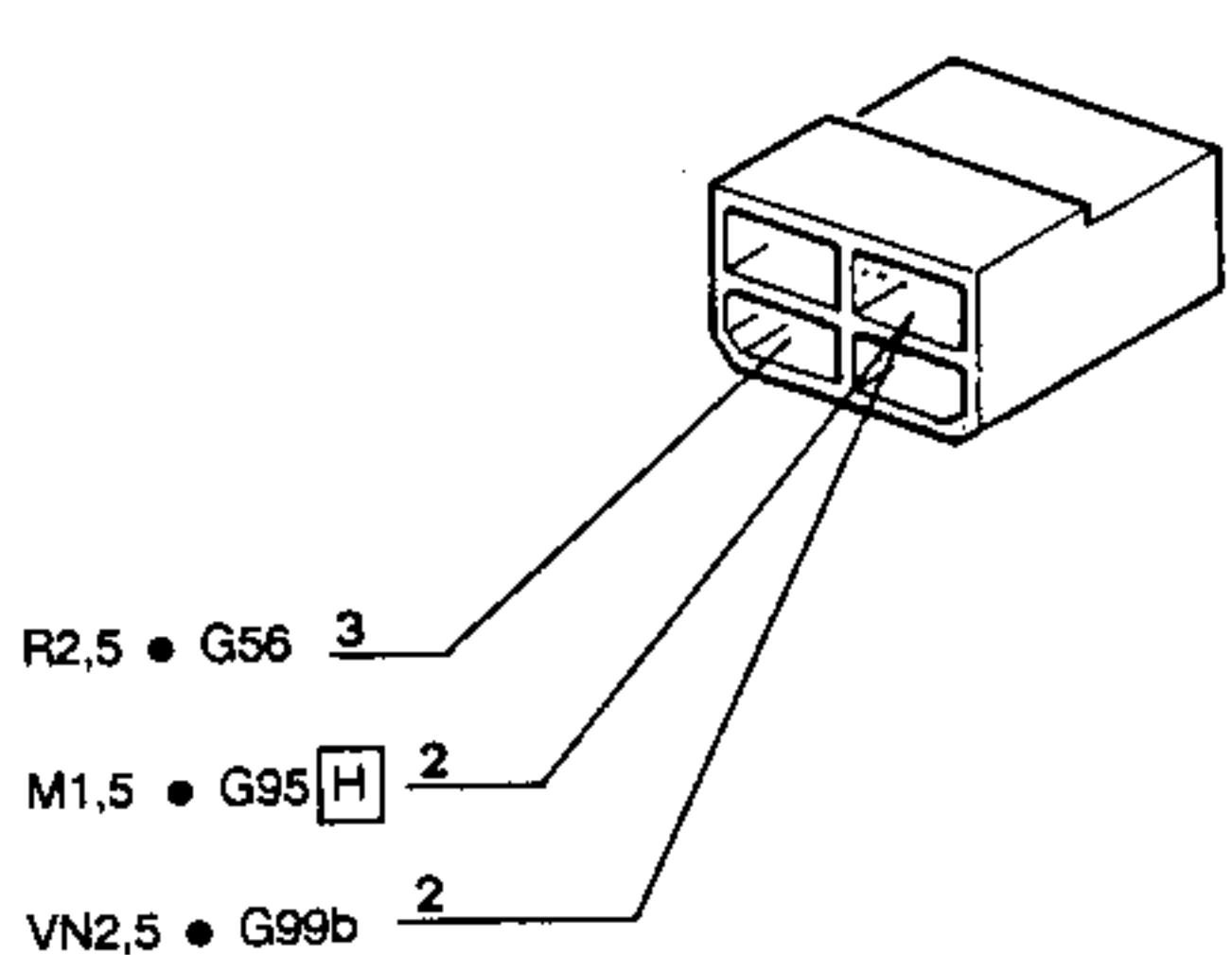
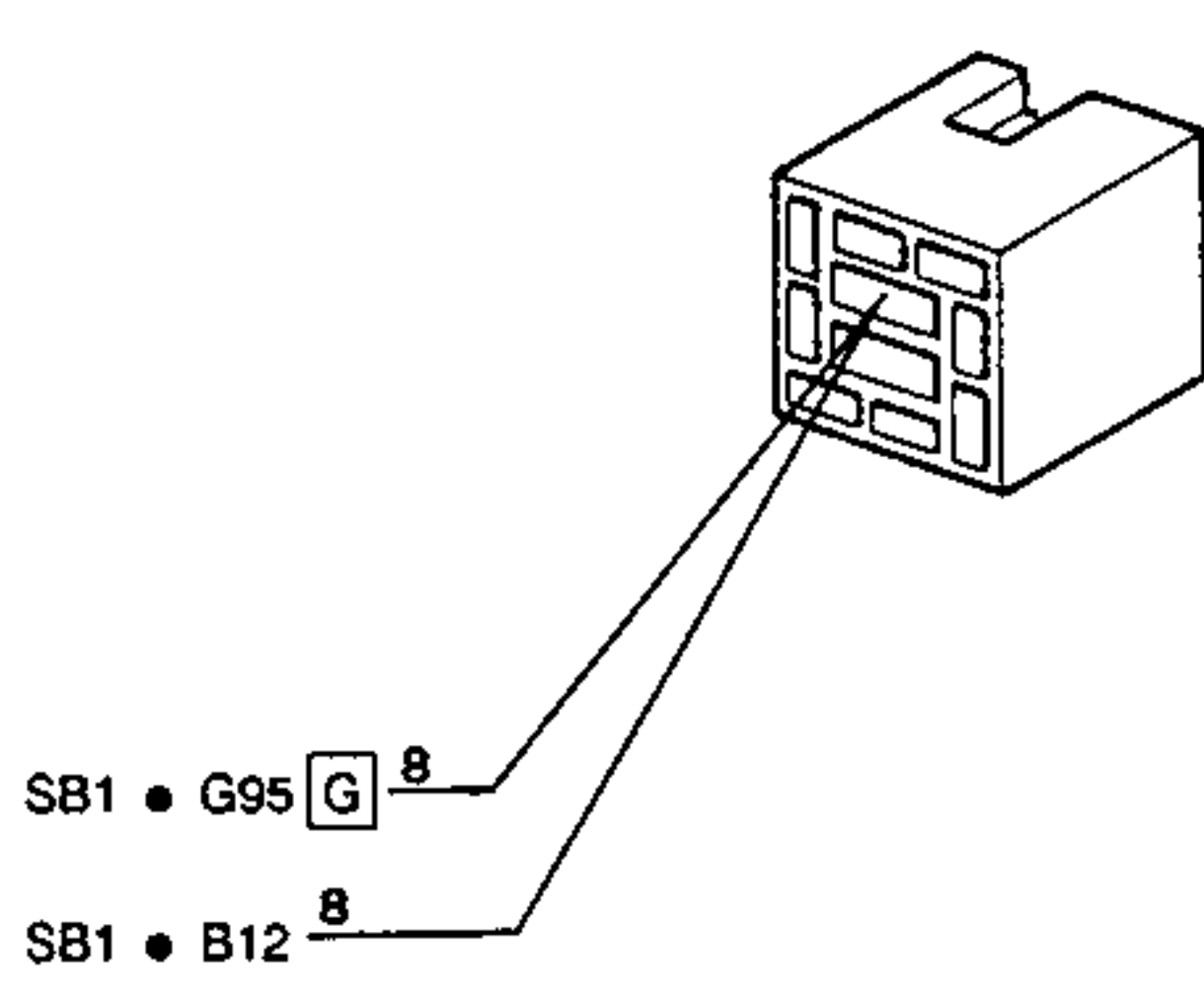
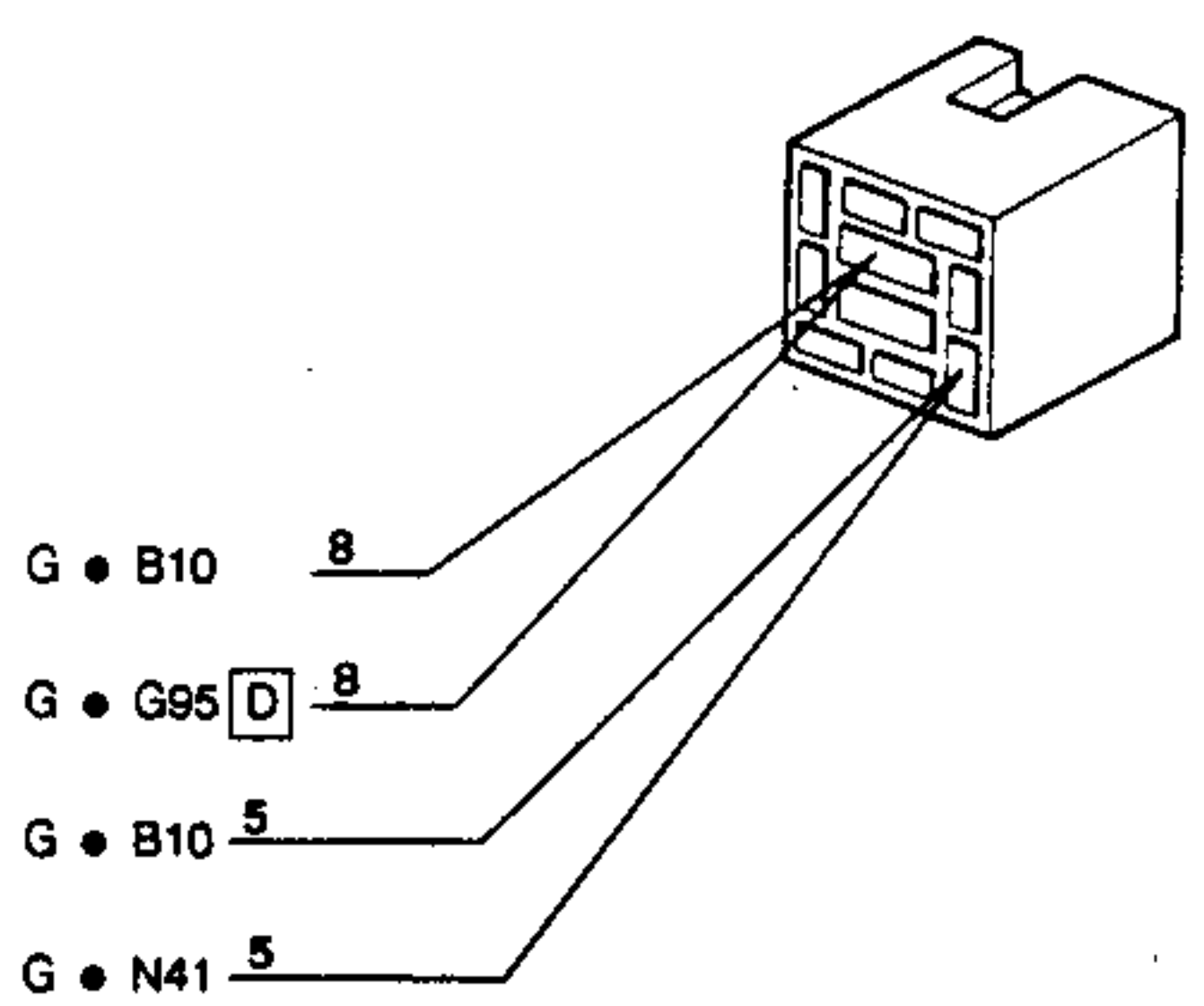
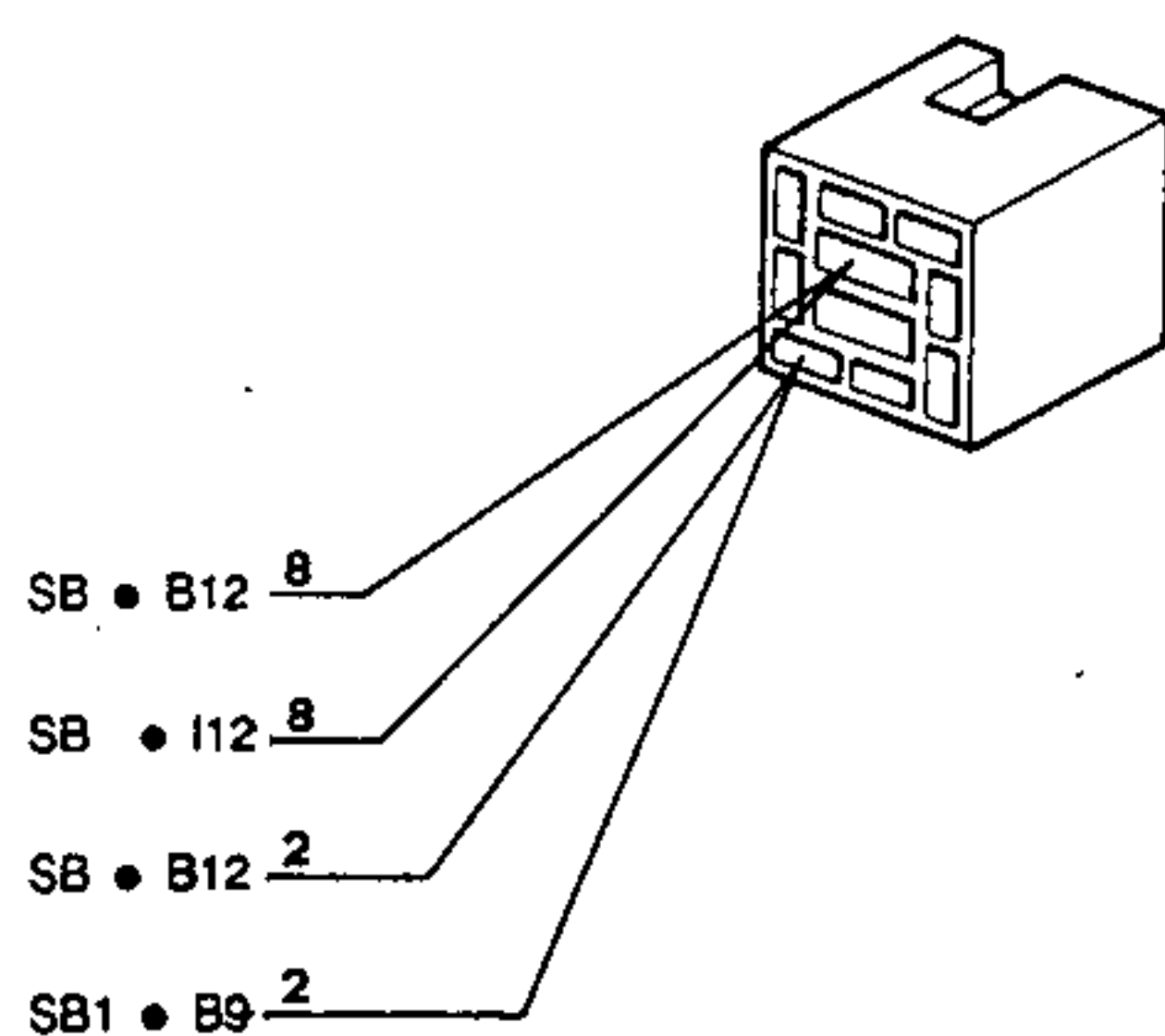


Wiring

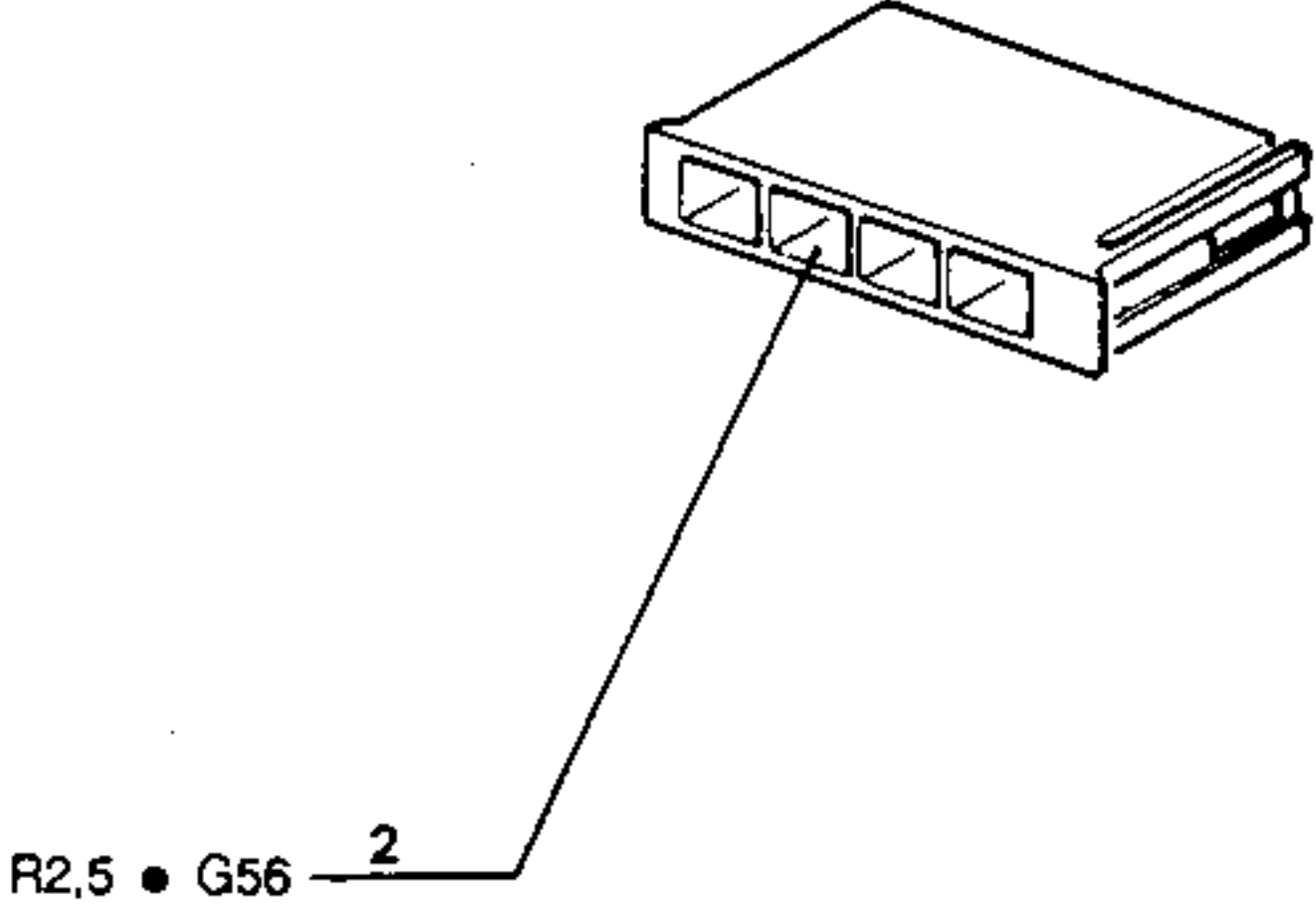
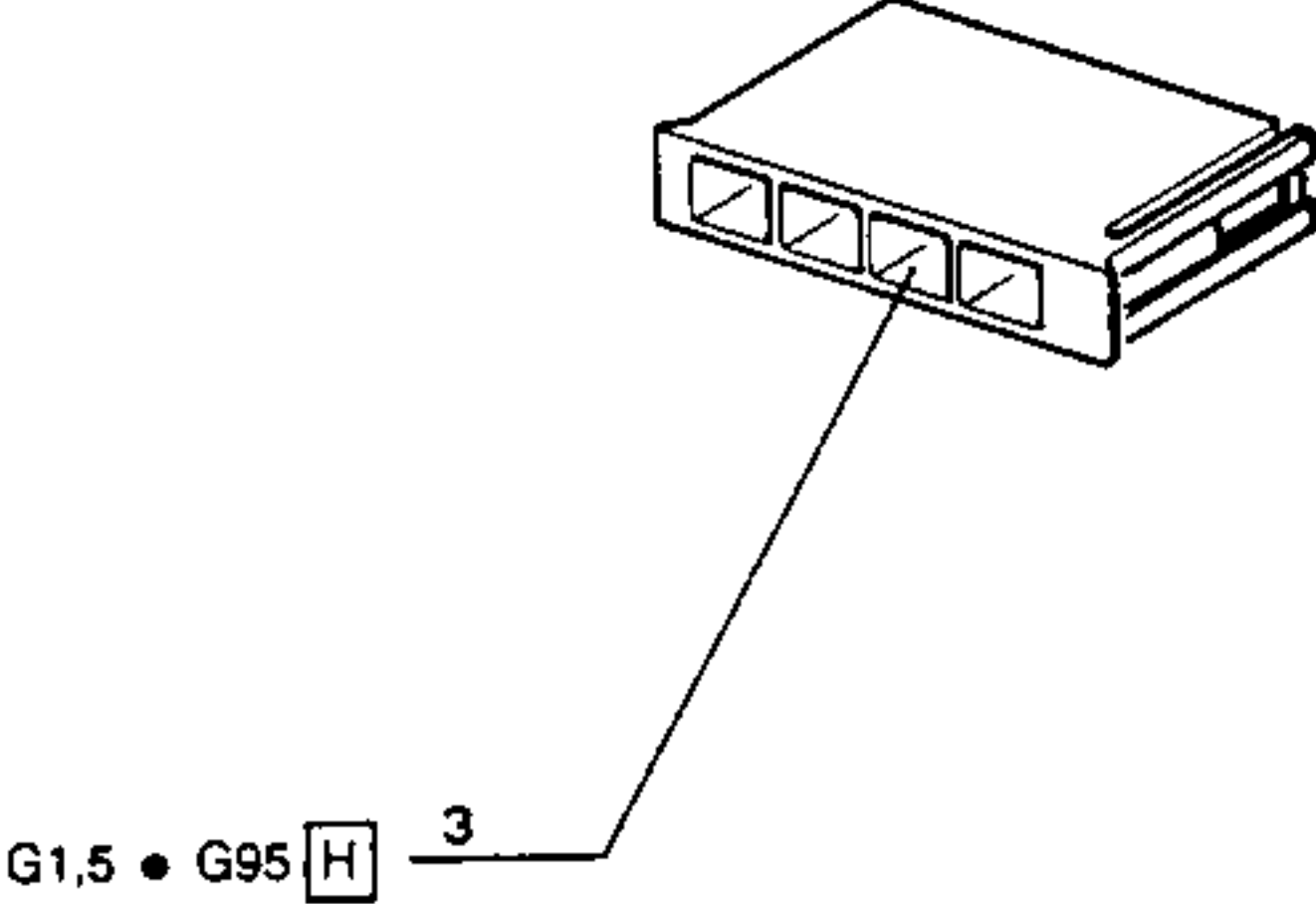
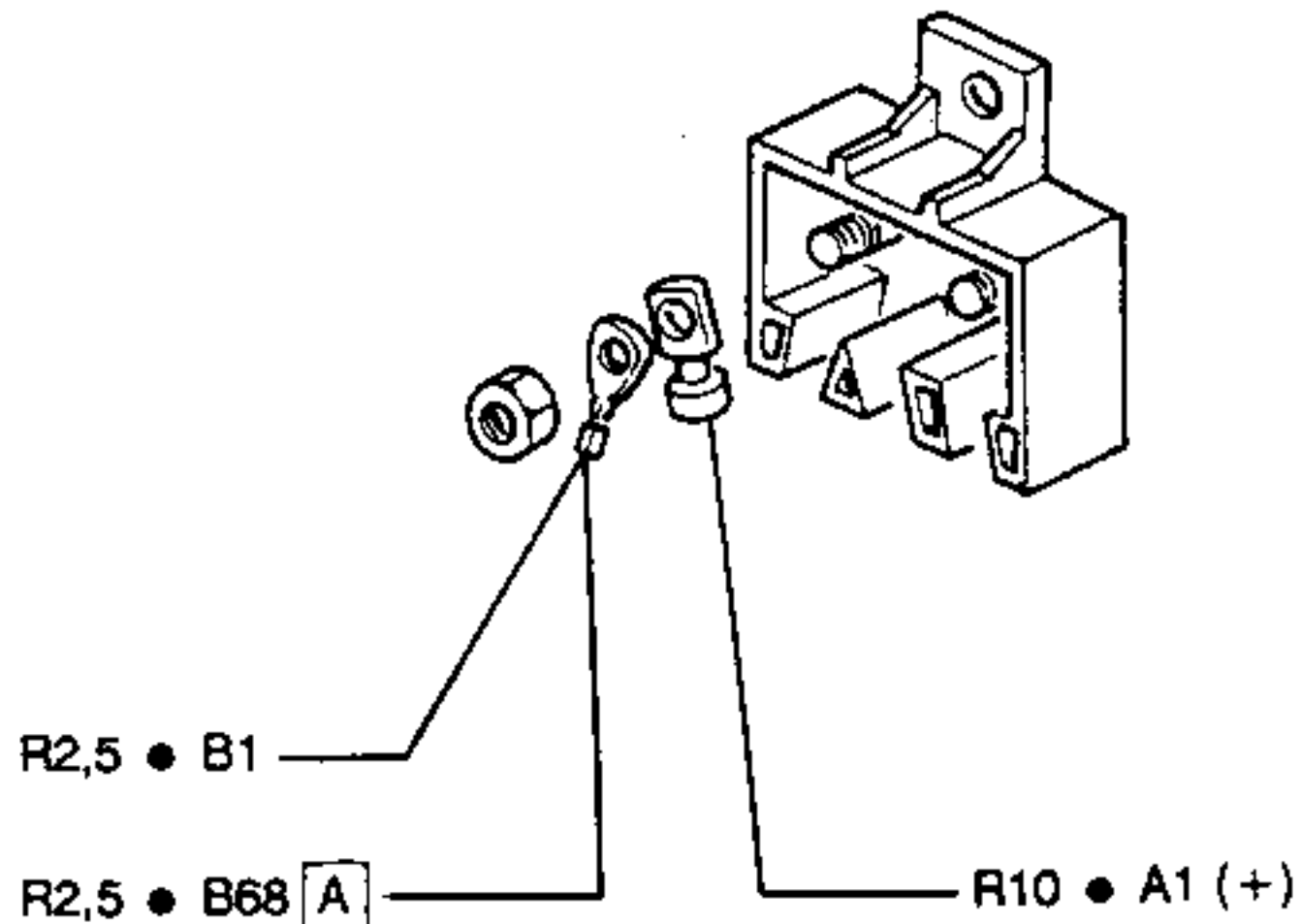
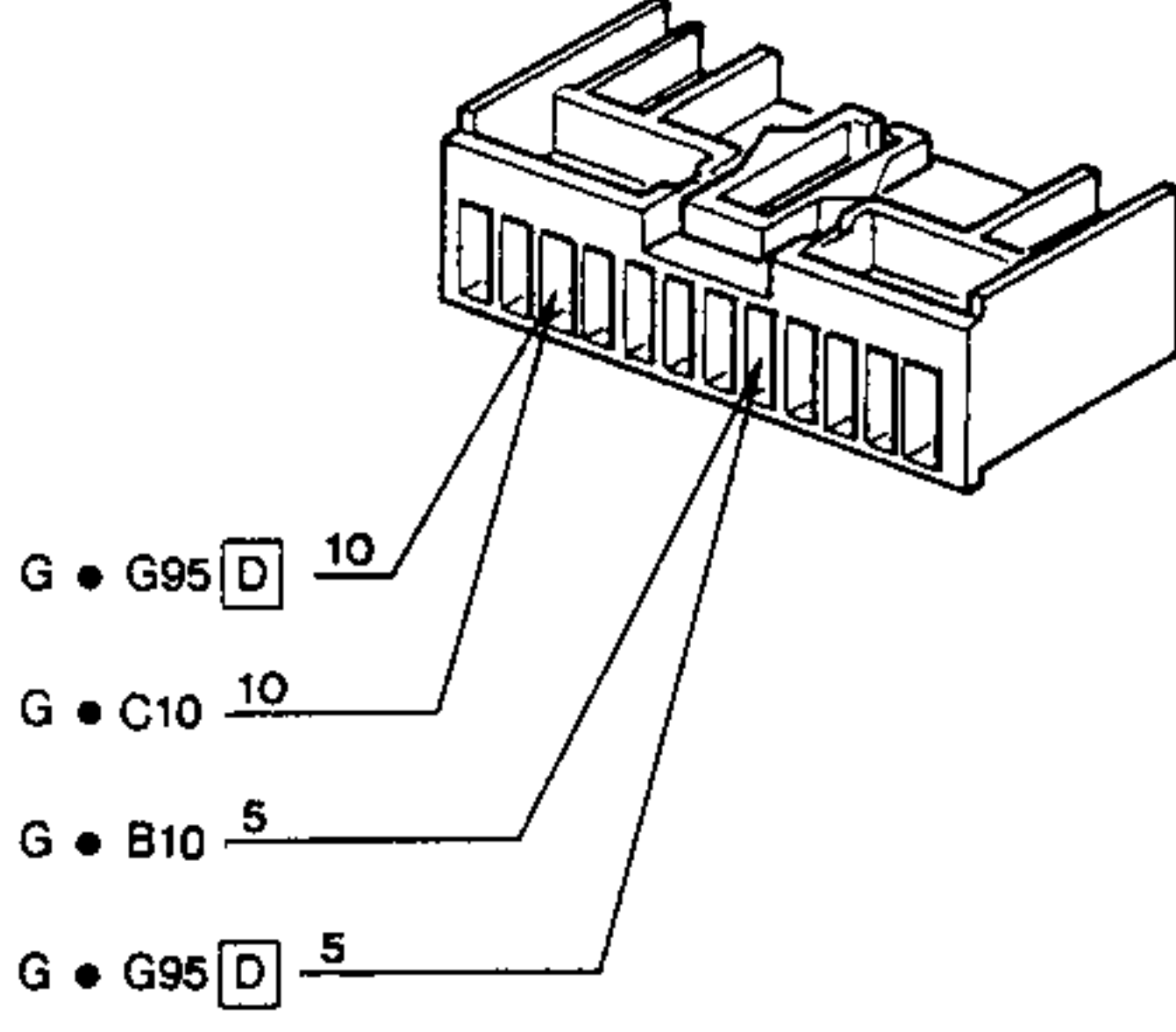
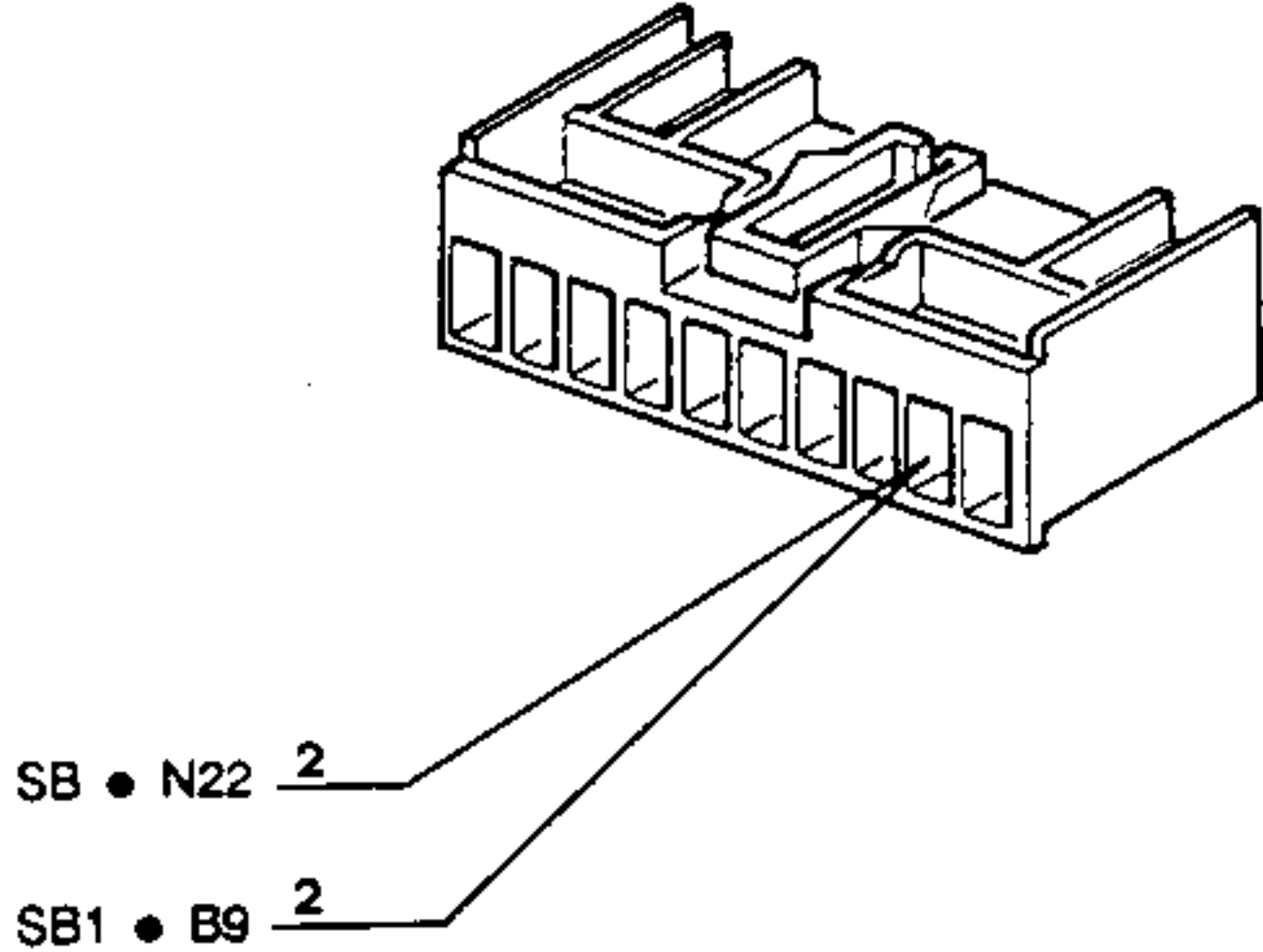
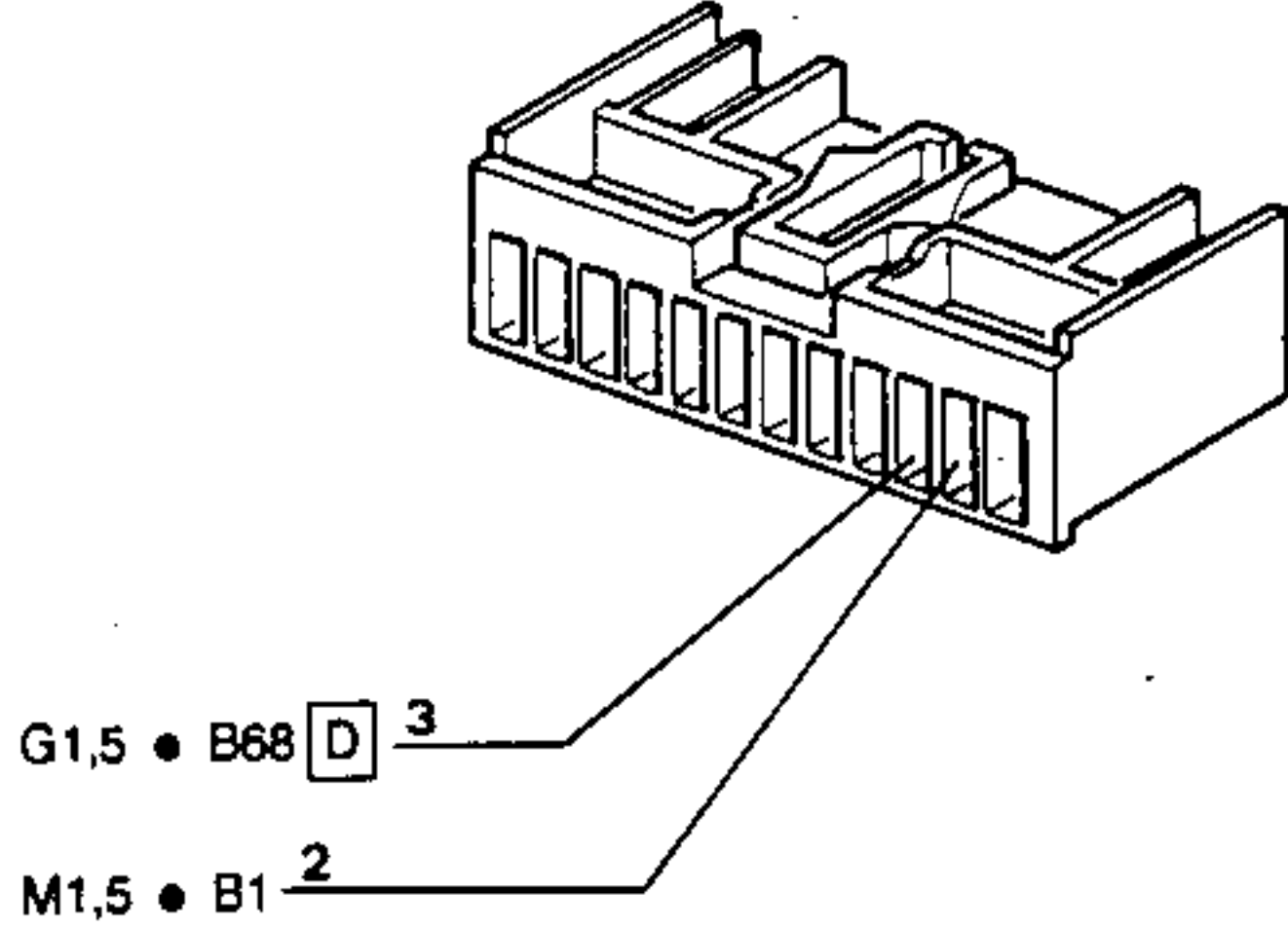


# ELECTRICAL SYSTEM

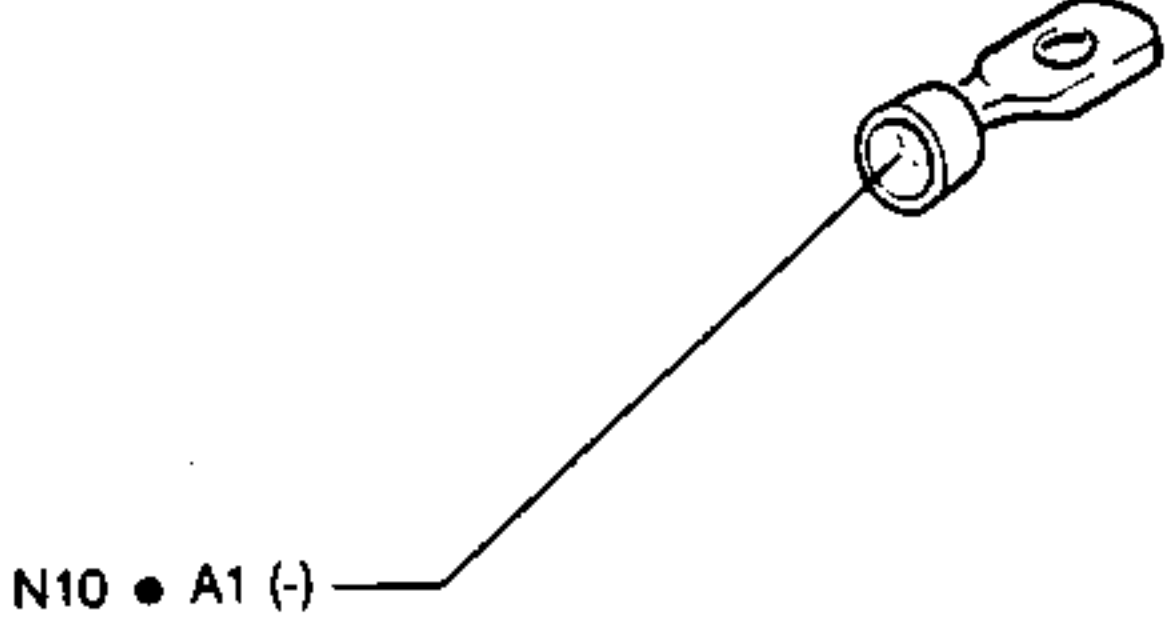
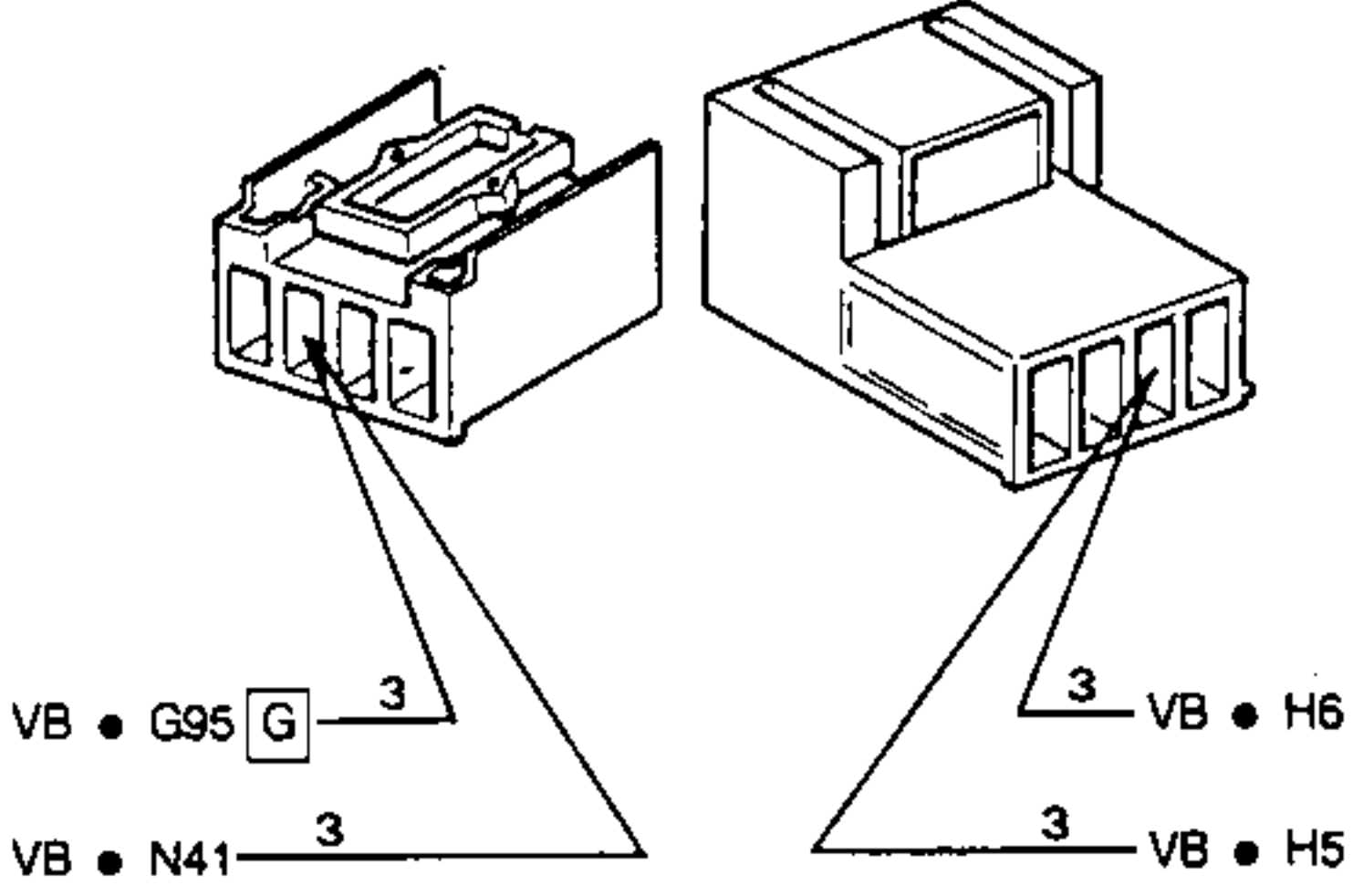
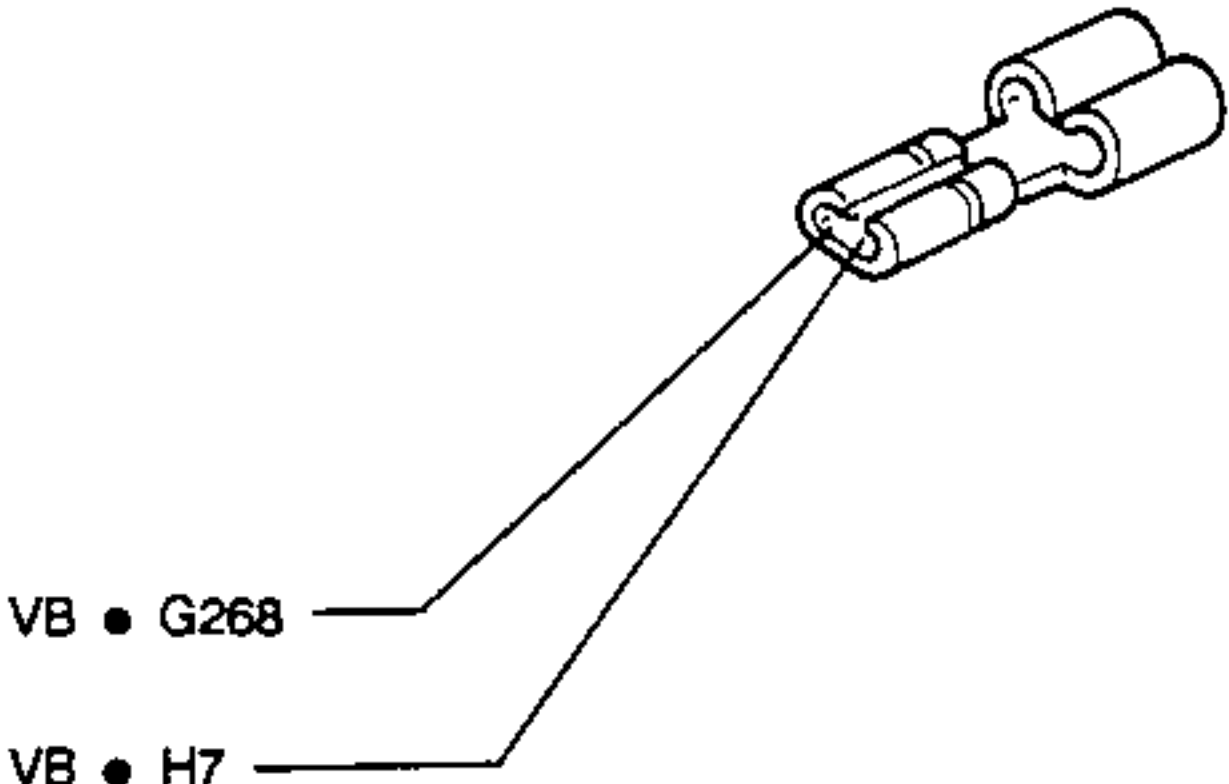
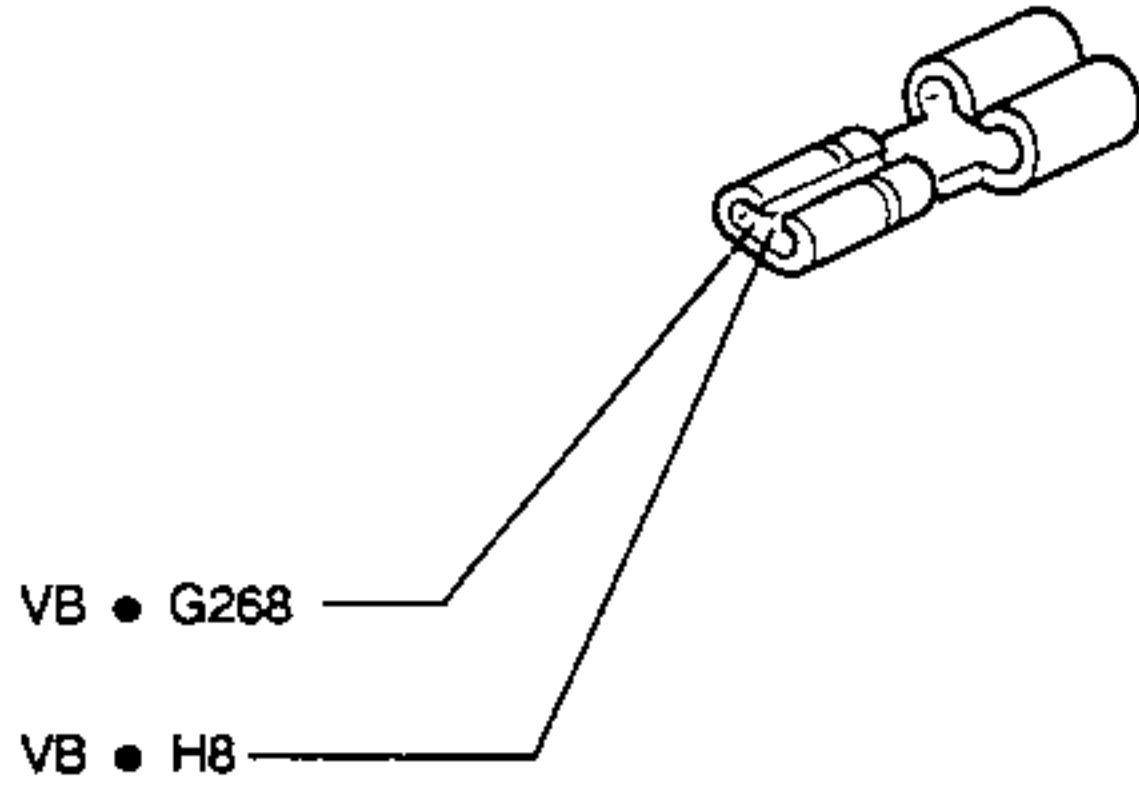
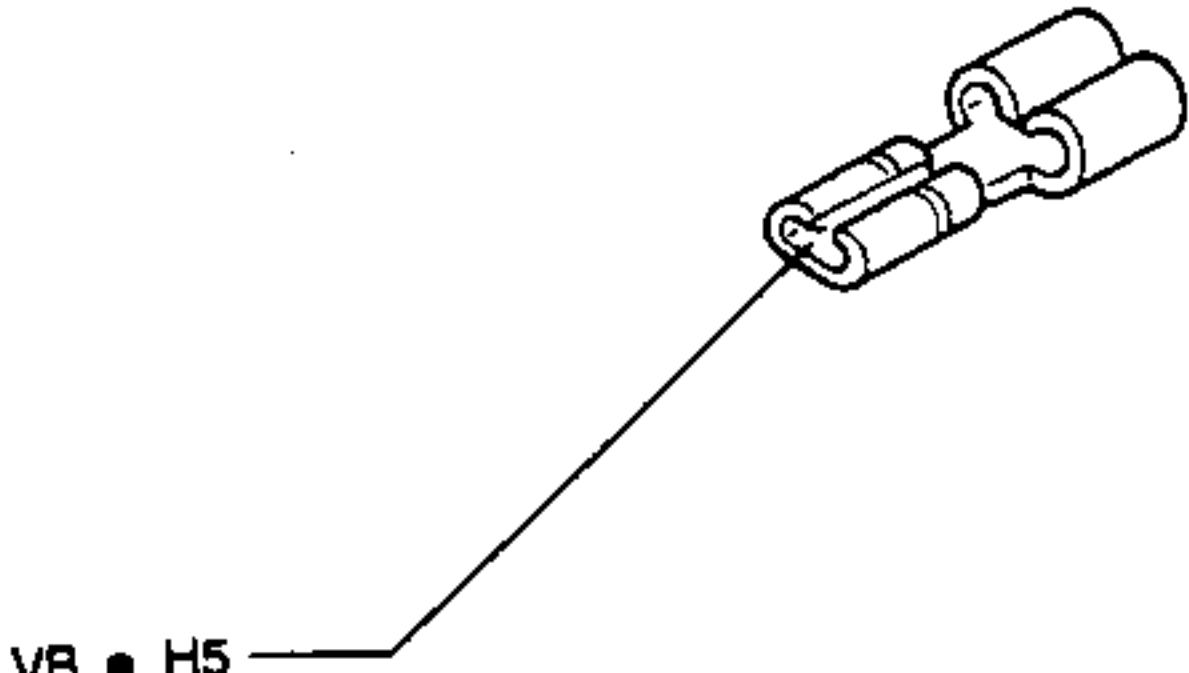
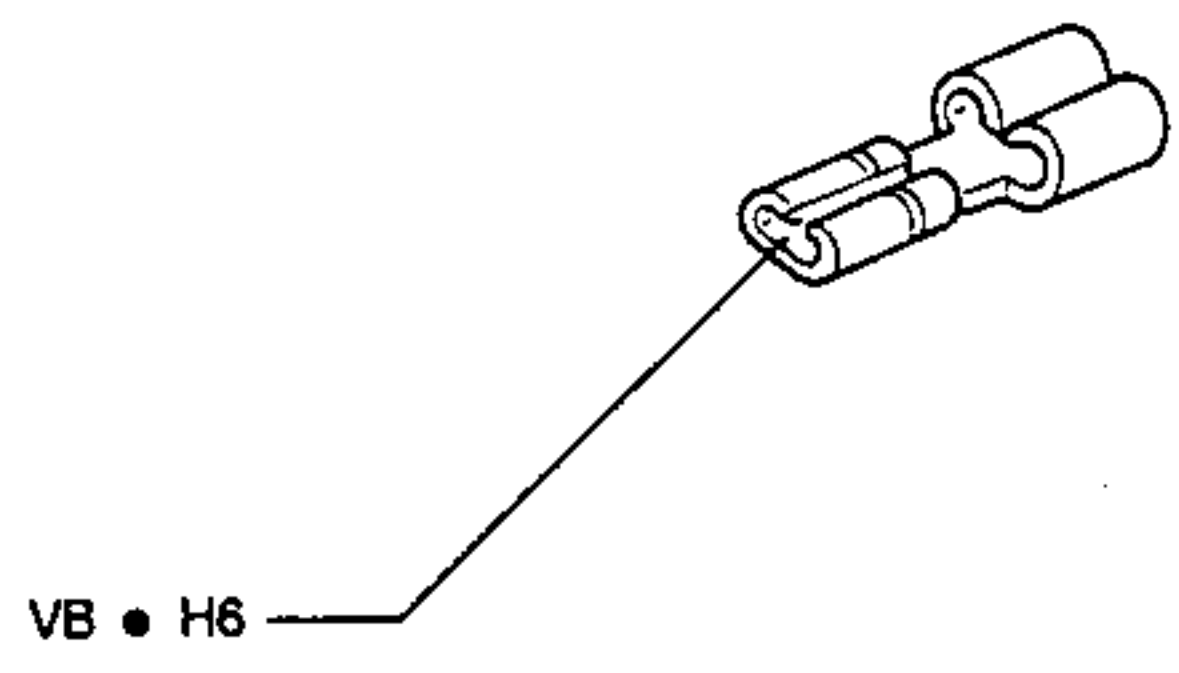
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
Ignition switch	B1	Heated rear window control switch	B9
 <p>R2,5 • G56 <u>3</u> M1,5 • G95 <u>H</u> <u>2</u> VN2,5 • G99b <u>2</u></p>		 <p>SB1 • G95 <u>G</u> <u>8</u> SB1 • B12 <u>8</u></p>	
33.90.028		33.90.008	
Fog lamp control switch	B10	Hazard warning lights control switch	B12
 <p>G • B10 <u>8</u> G • G95 <u>D</u> <u>8</u> G • B10 <u>5</u> G • N41 <u>5</u></p>		 <p>SB • B12 <u>8</u> SB • I12 <u>8</u> SB • B12 <u>2</u> SB1 • B9 <u>2</u></p>	
33.90.008		33.90.008	

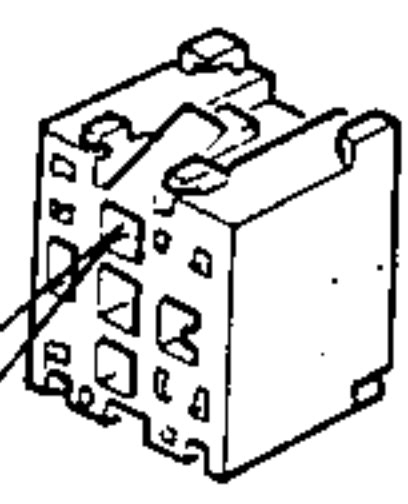
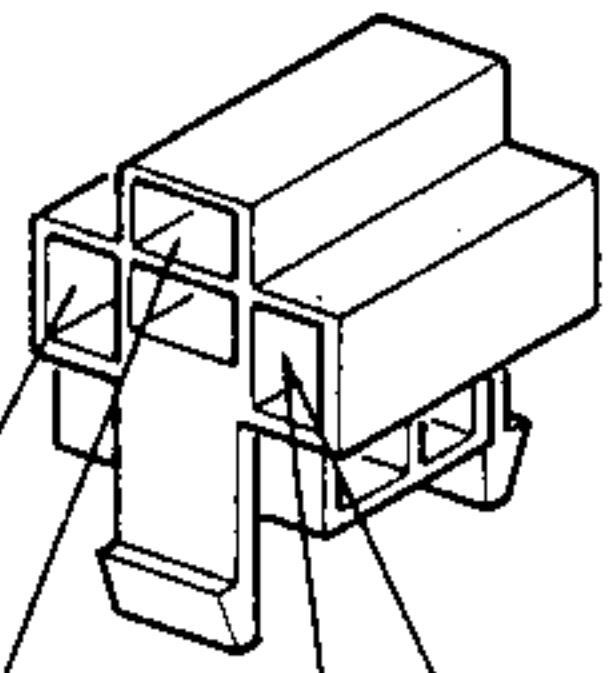
ELECTRICAL SYSTEM

<p>Turn signal switch unit</p>	<p><b>B68 A</b></p>	<p>Turn signal switch unit</p>	<p><b>B68 D</b></p>
 <p>R2,5 • G56 — 2</p> <p>33.90.027</p>		 <p>G1,5 • G95 <b>H</b> — 3</p> <p>33.90.027</p>	
<p>Branch terminal board</p>	<p><b>G56</b></p>	<p>Central fusebox</p>	<p><b>G95 D</b></p>
 <p>R2,5 • B1</p> <p>R2,5 • B68 <b>A</b></p> <p>R10 • A1 (+)</p> <p>33.90.066</p>		 <p>G • G95 <b>D</b> — 10</p> <p>G • C10 — 10</p> <p>G • B10 — 5</p> <p>G • G95 <b>D</b> — 5</p> <p>33.90.004</p>	
<p>Central fusebox</p>	<p><b>G95 G</b></p>	<p>Central fusebox</p>	<p><b>G95 H</b></p>
 <p>SB • N22 — 2</p> <p>SB1 • B9 — 2</p> <p>33.90.005</p>		 <p>G1,5 • B68 <b>D</b> — 3</p> <p>M1,5 • B1 — 2</p> <p>33.90.004</p>	

**ELECTRICAL SYSTEM**

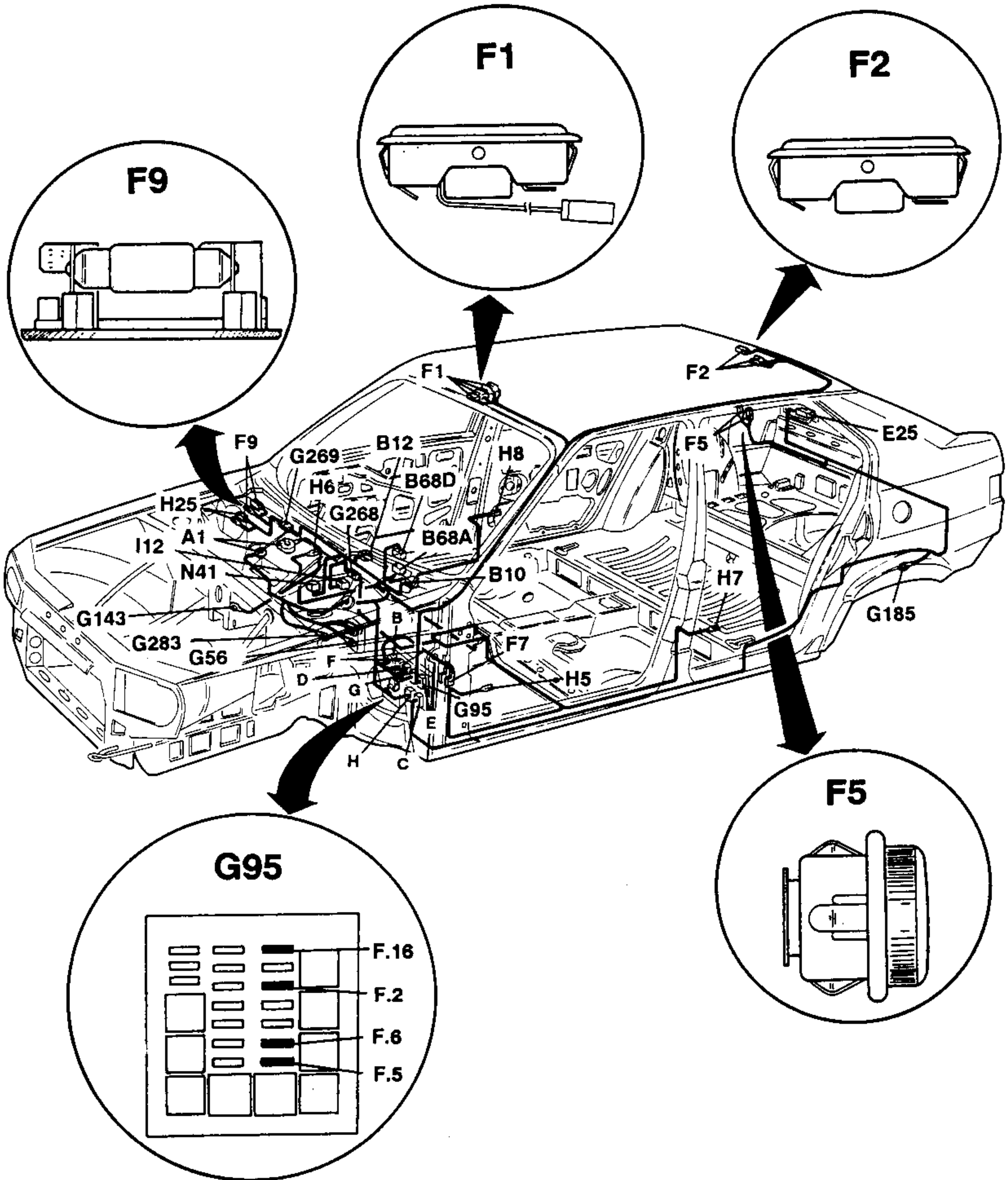
<p align="center">Central service compartmen earth</p>	<p align="center"><b>G143</b></p>	<p align="center">Door lock wiring and handbrake switch wiring connector</p>	<p align="center"><b>G268</b></p>
 <p>N10 ● A1 (-)</p> <p align="right">33.90.001</p>	 <p>VB ● G95 G 3 VB ● N41 3 VB ● H6 3 VB ● H5 3</p> <p align="right">33.90.018</p>		
<p align="center">Front left door open indicator switch</p>	<p align="center"><b>H5</b></p>	<p align="center">Right front door open indicator switch</p>	<p align="center"><b>H6</b></p>
 <p>VB ● G268 VB ● H7</p> <p align="right">33.90.021</p>	 <p>VB ● G268 VB ● H8</p> <p align="right">33.90.021</p>		
<p align="center">Left rear door open indicator switch</p>	<p align="center"><b>H7</b></p>	<p align="center">Right rear door open indicator switch</p>	<p align="center"><b>H8</b></p>
 <p>VB ● H5</p> <p align="right">33.90.021</p>	 <p>VB ● H6</p> <p align="right">33.90.021</p>		

# ELECTRICAL SYSTEM

Front power window relay	I12	Control unit lights on signal	N41
 <p>SB • N41 85</p> <p>SB • B12 85</p> <p>33.90.007</p>		 <p>SB • I12 1</p> <p>VB • G268 4</p> <p>2 G • B10</p> <p>2 G • G269</p> <p>33.90.022</p>	

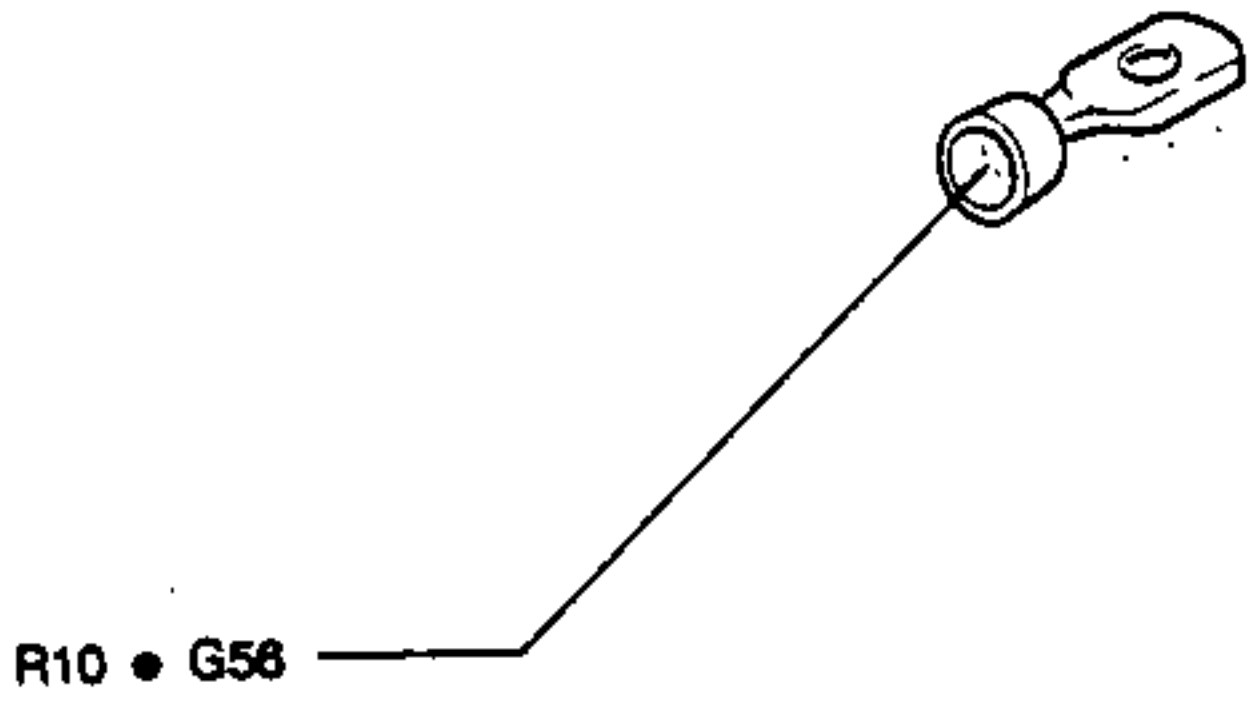
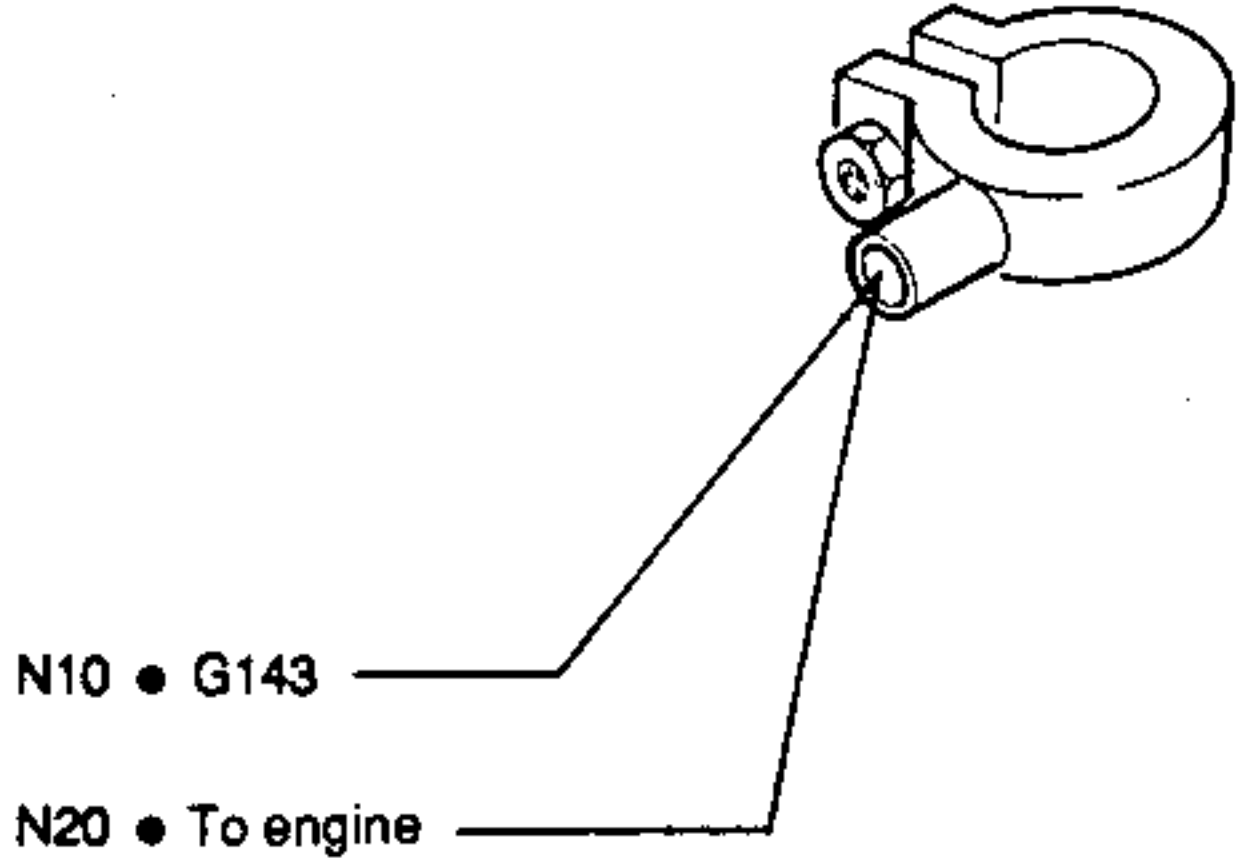
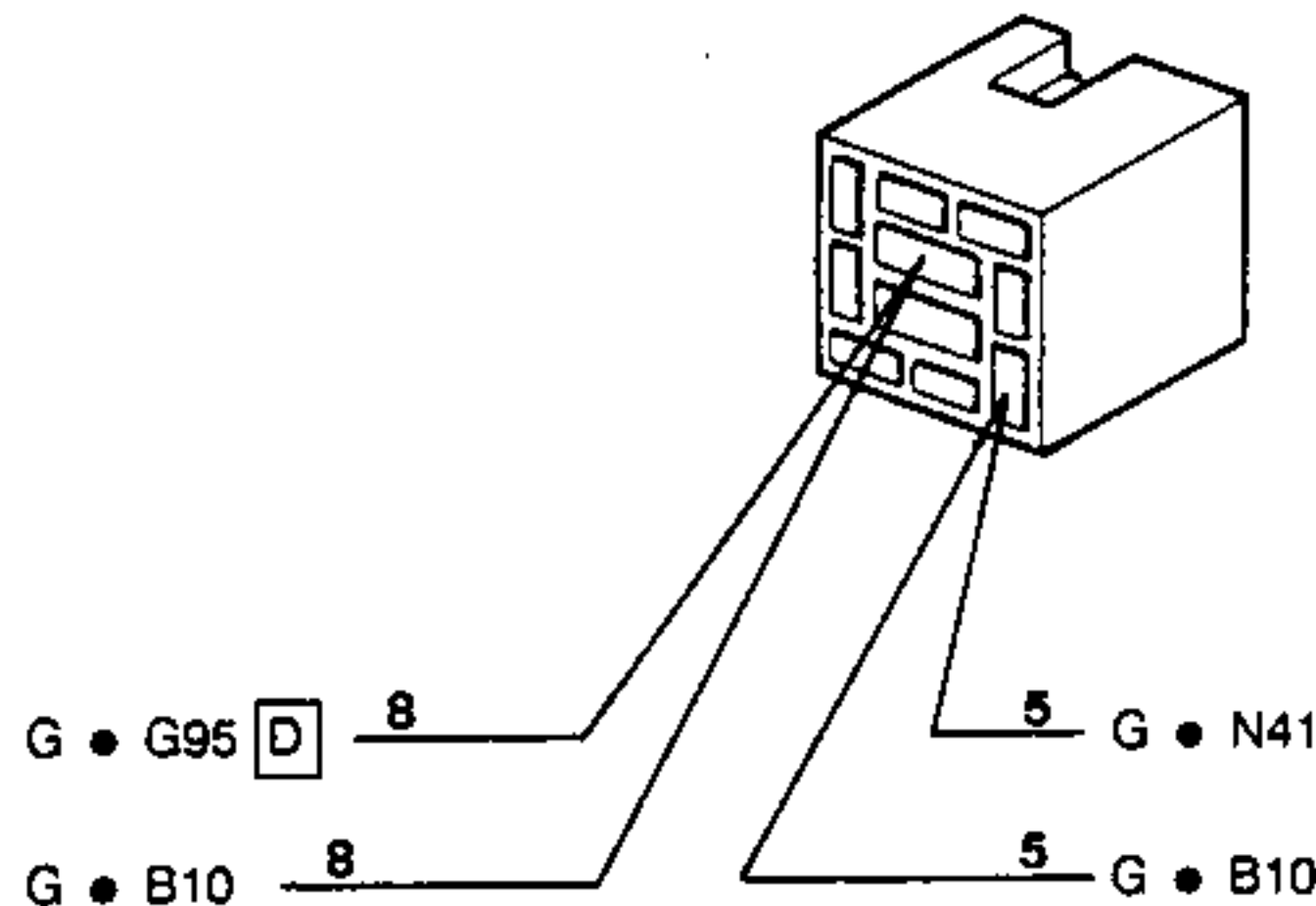
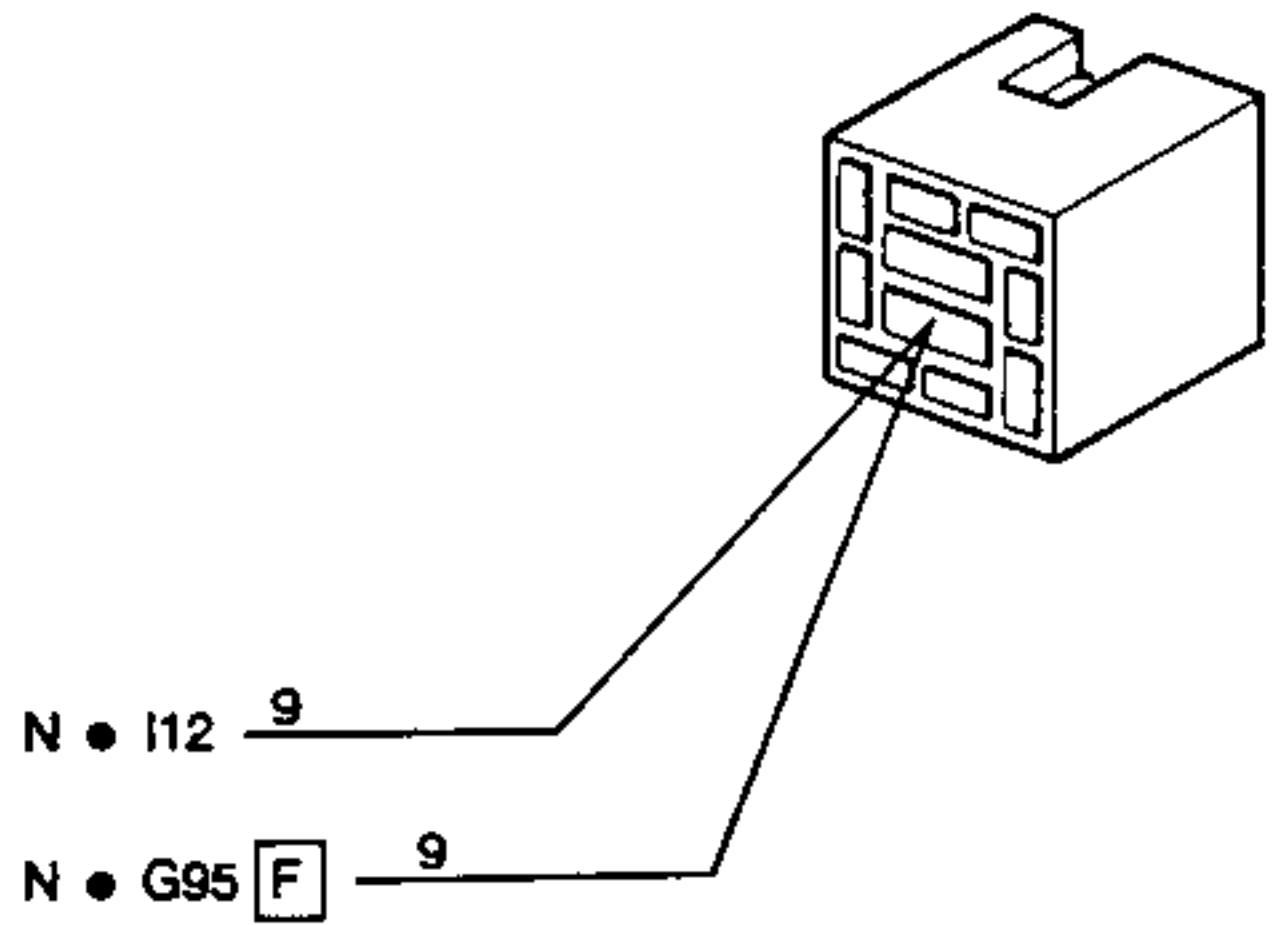
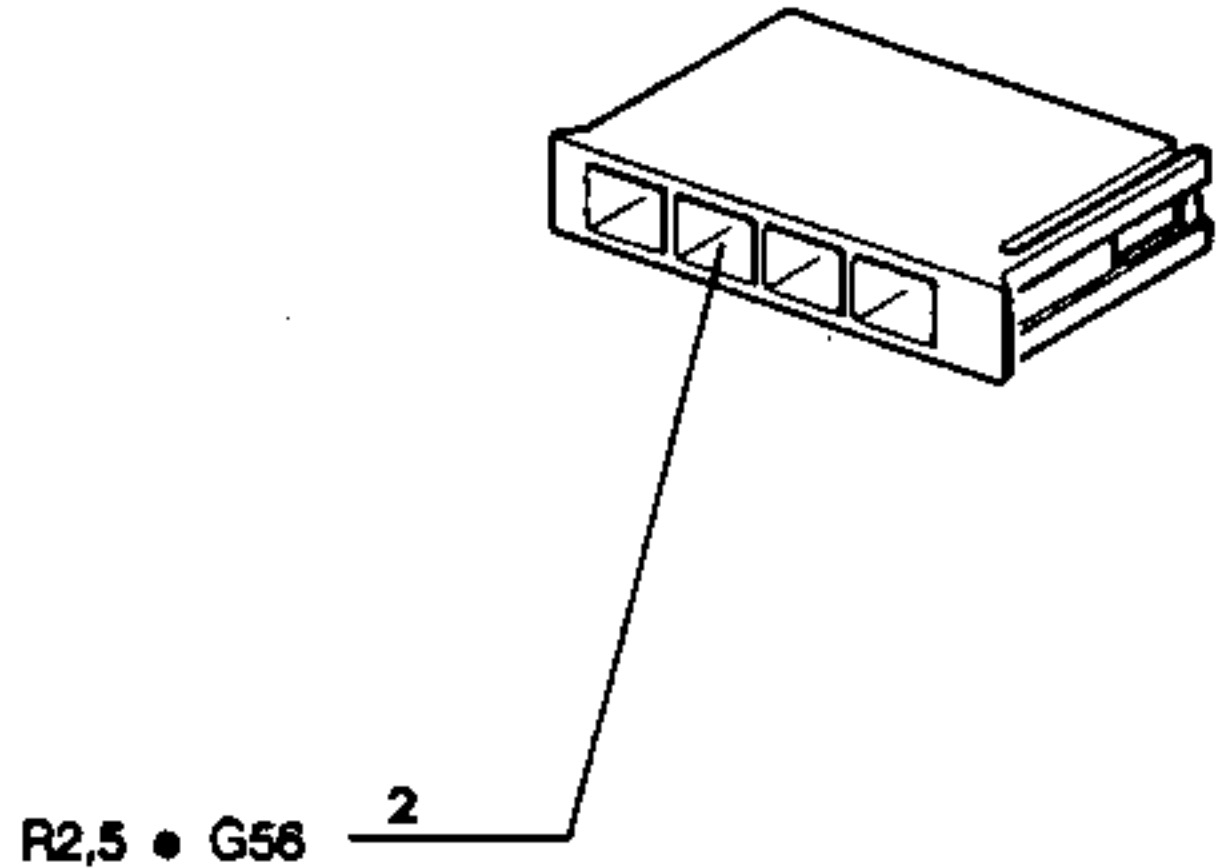
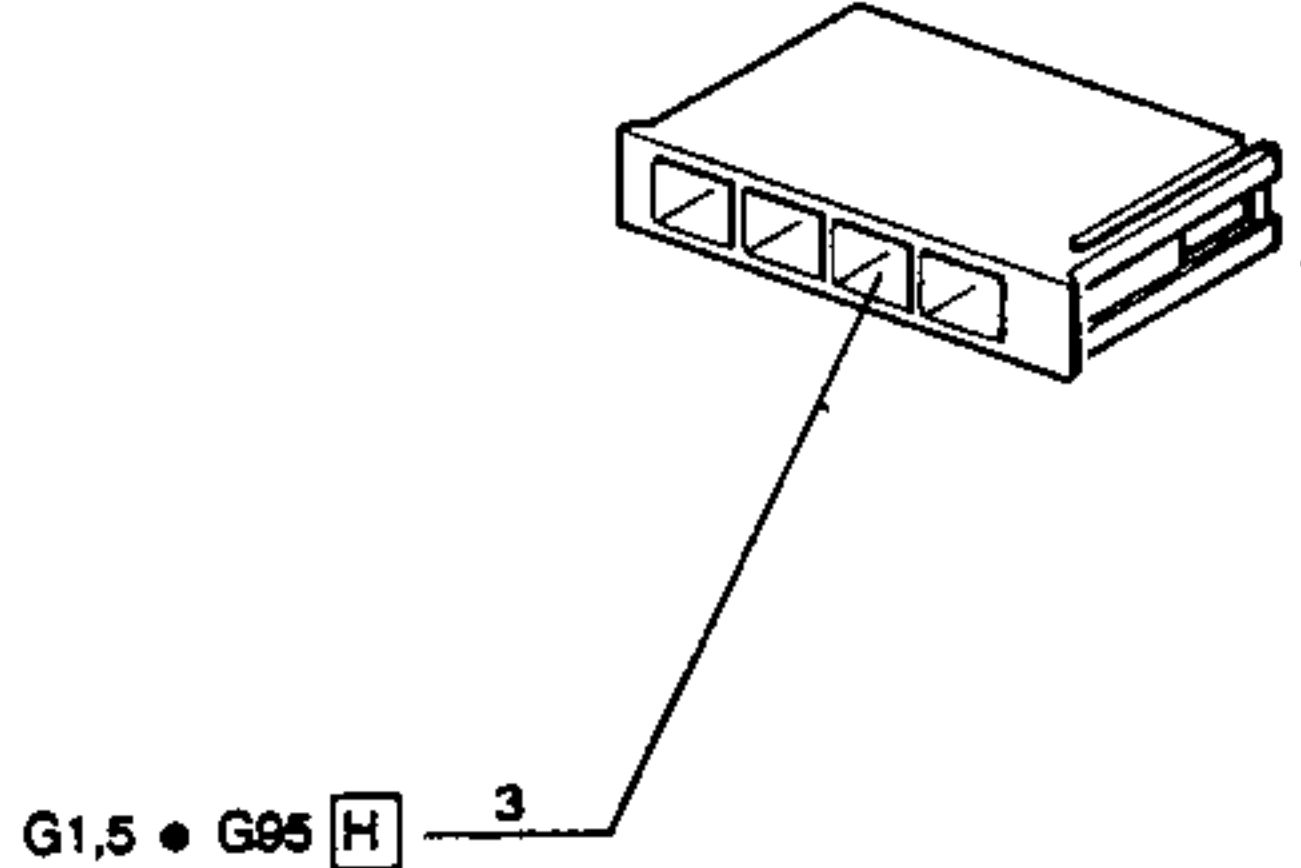


Wiring



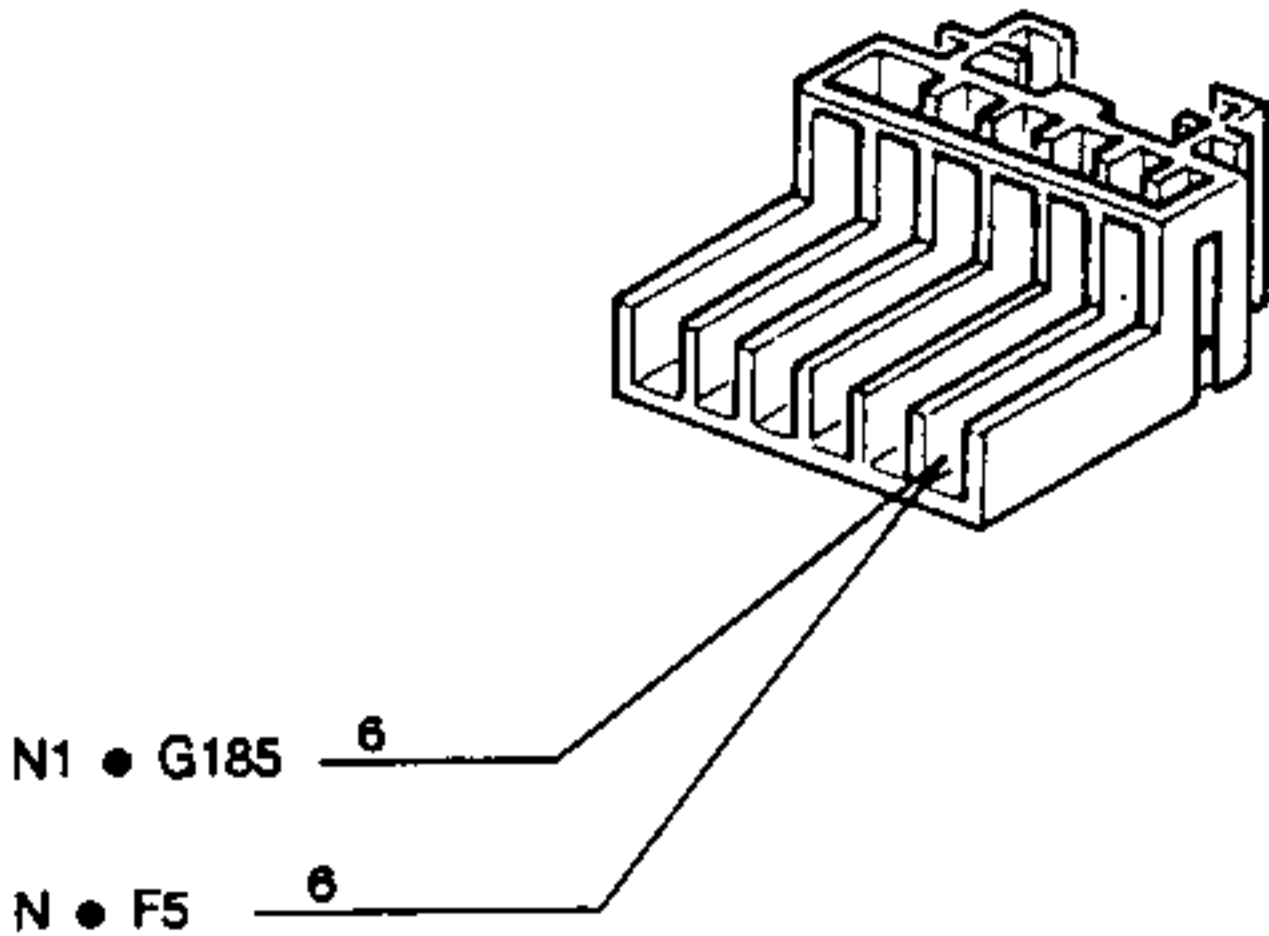
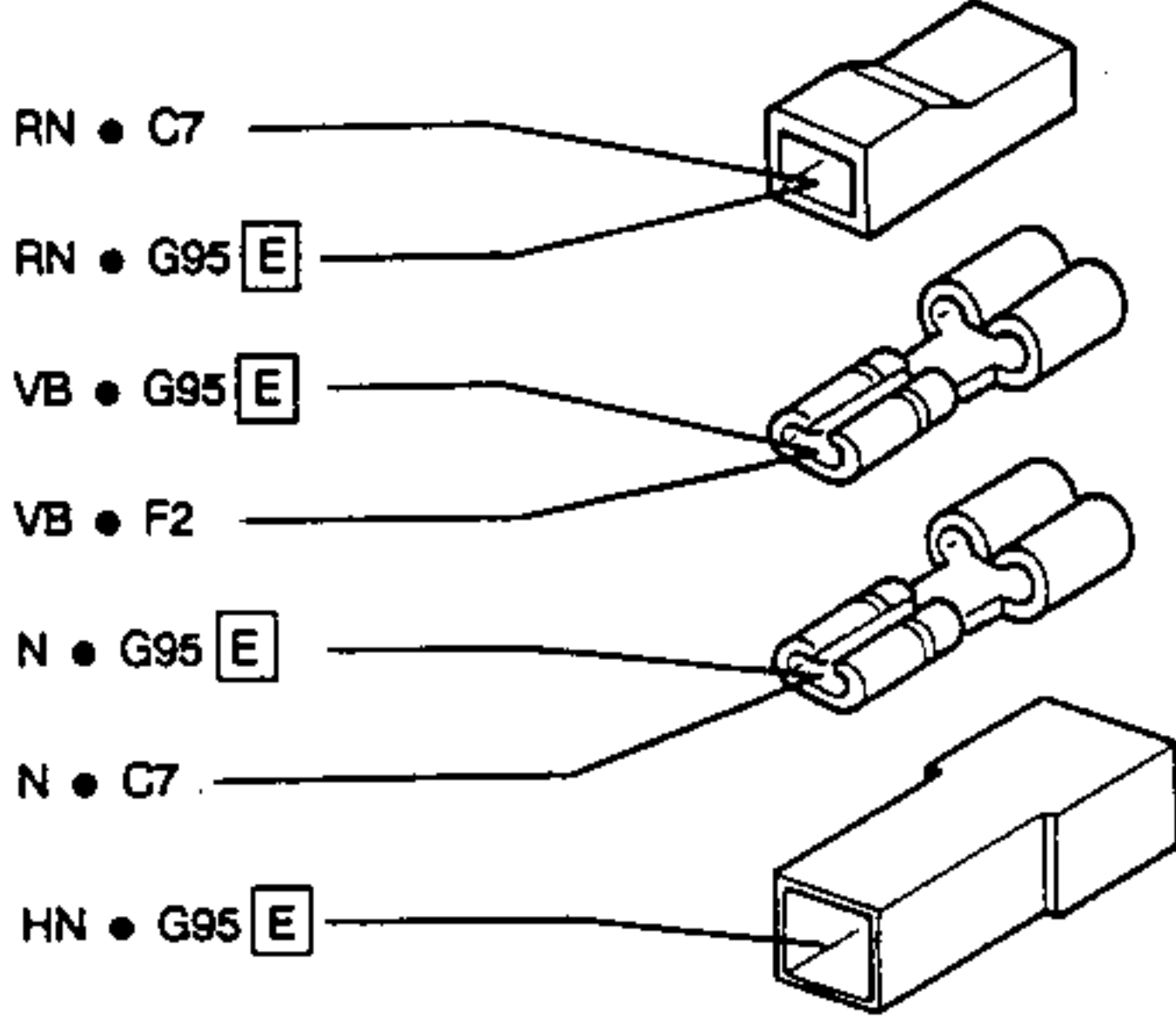
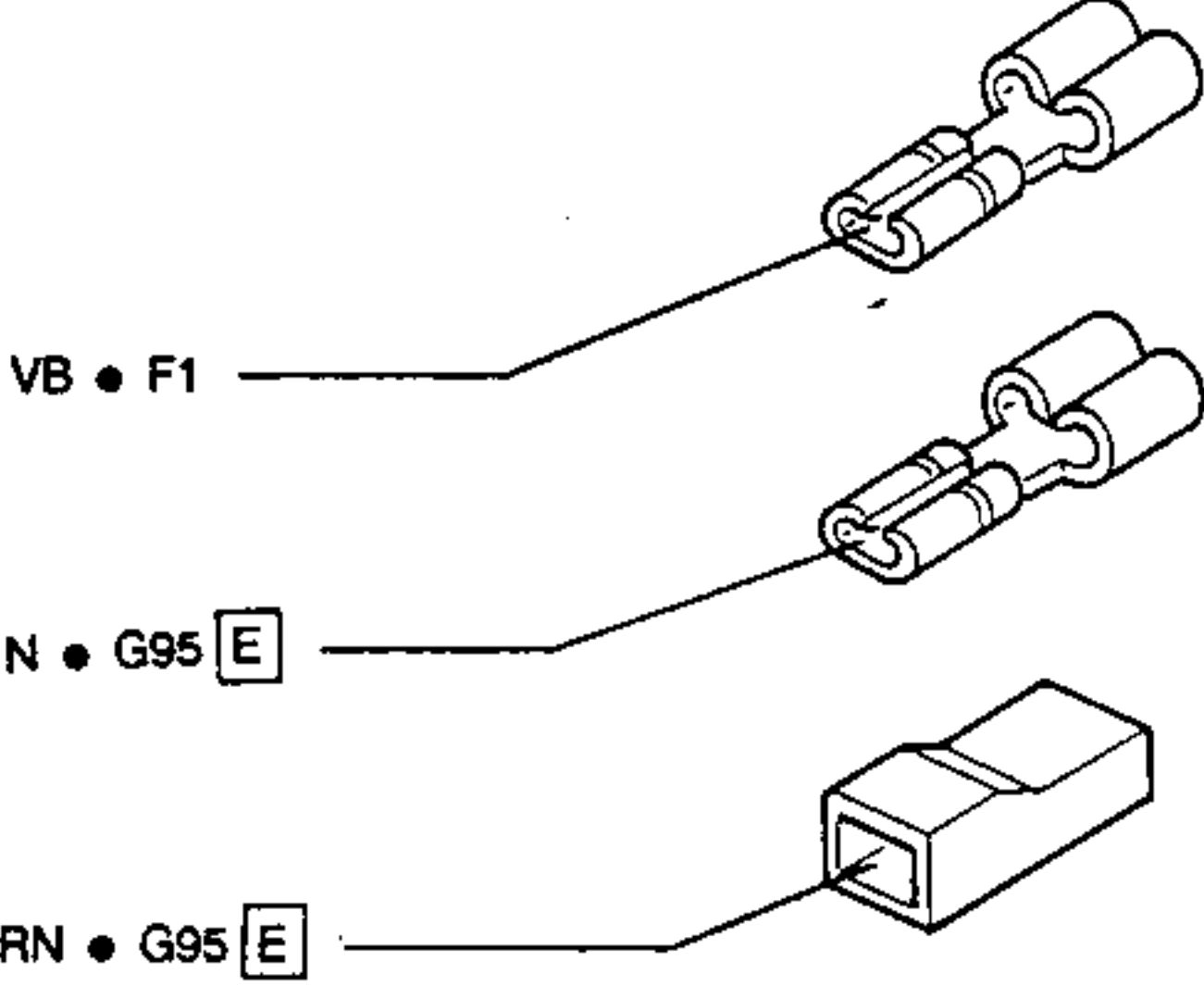
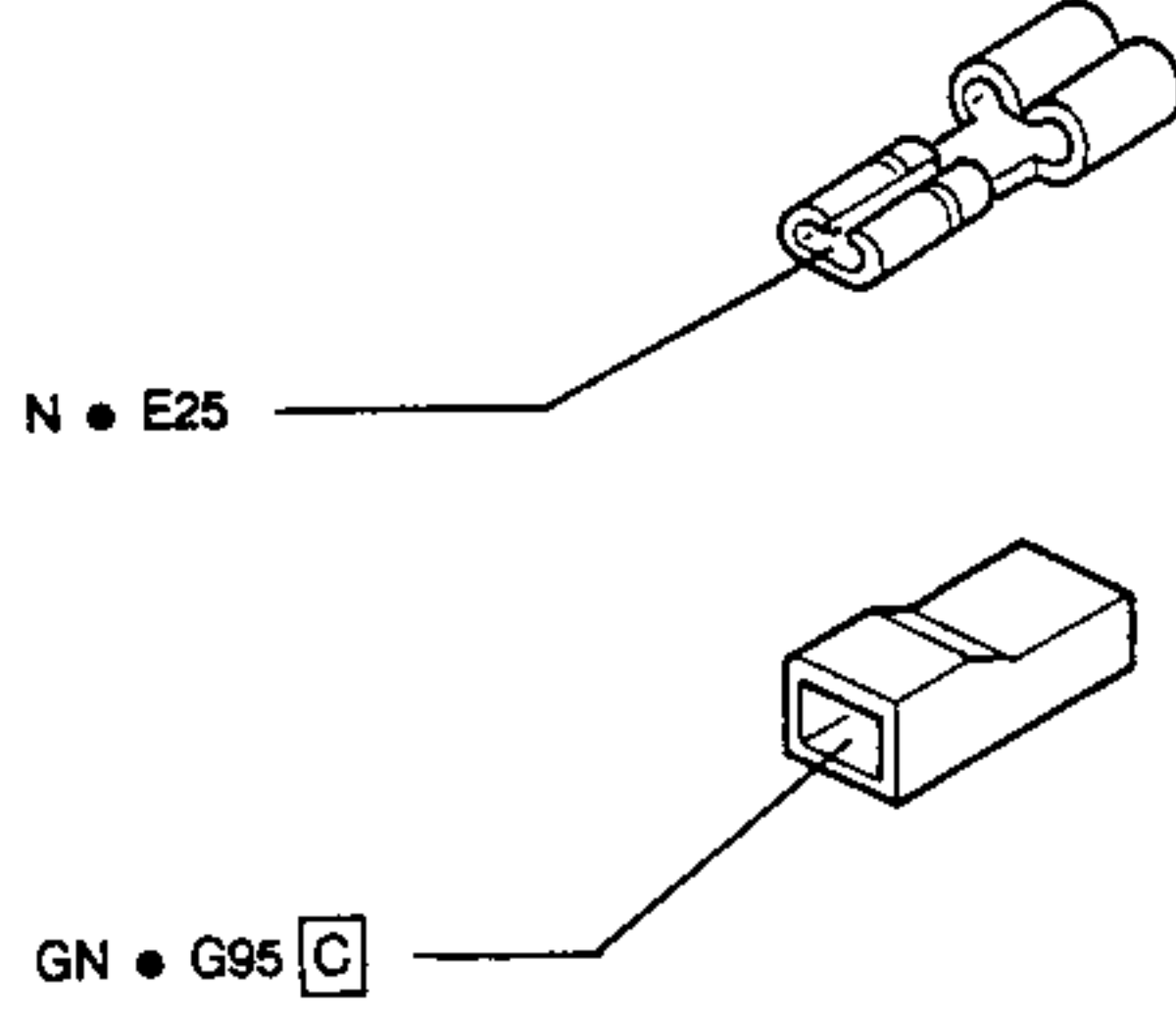
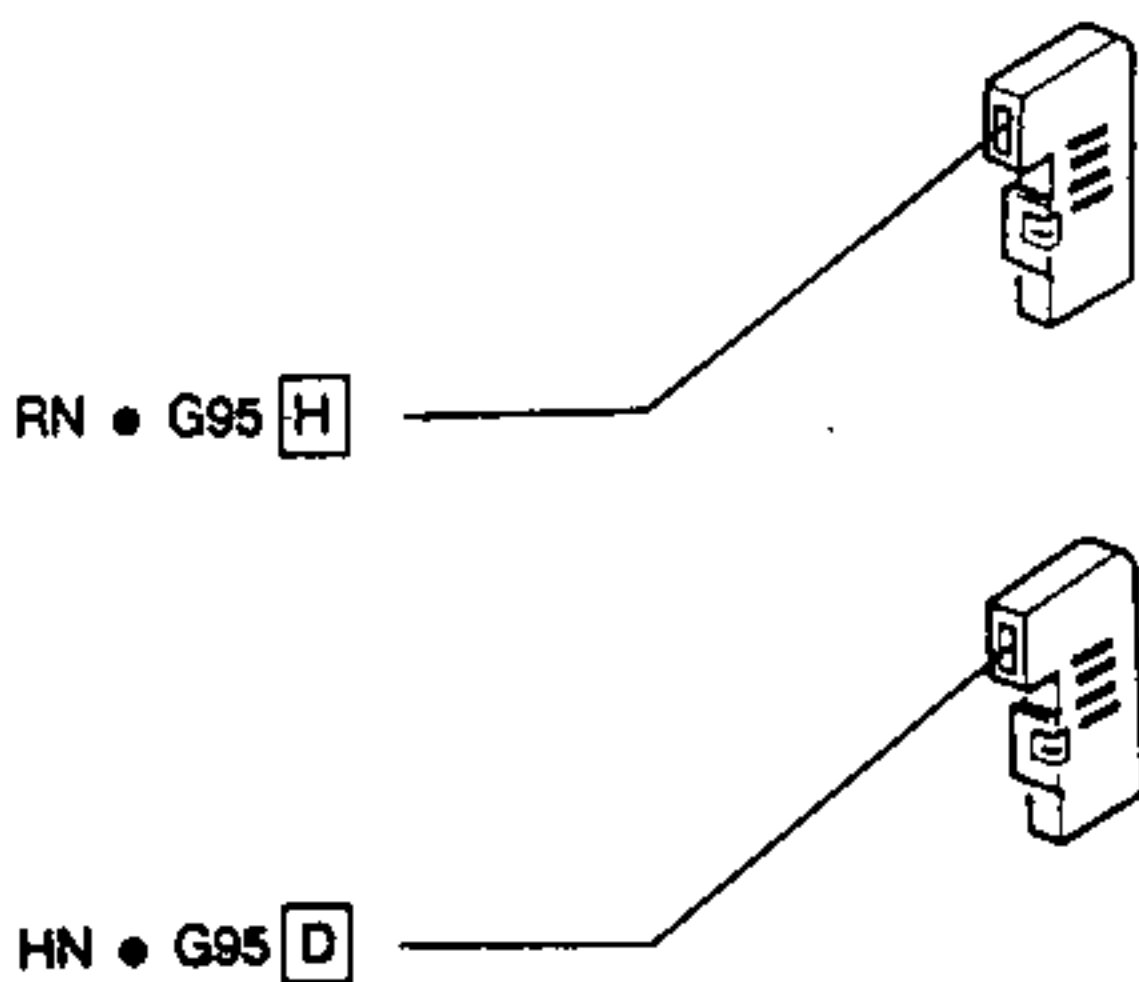
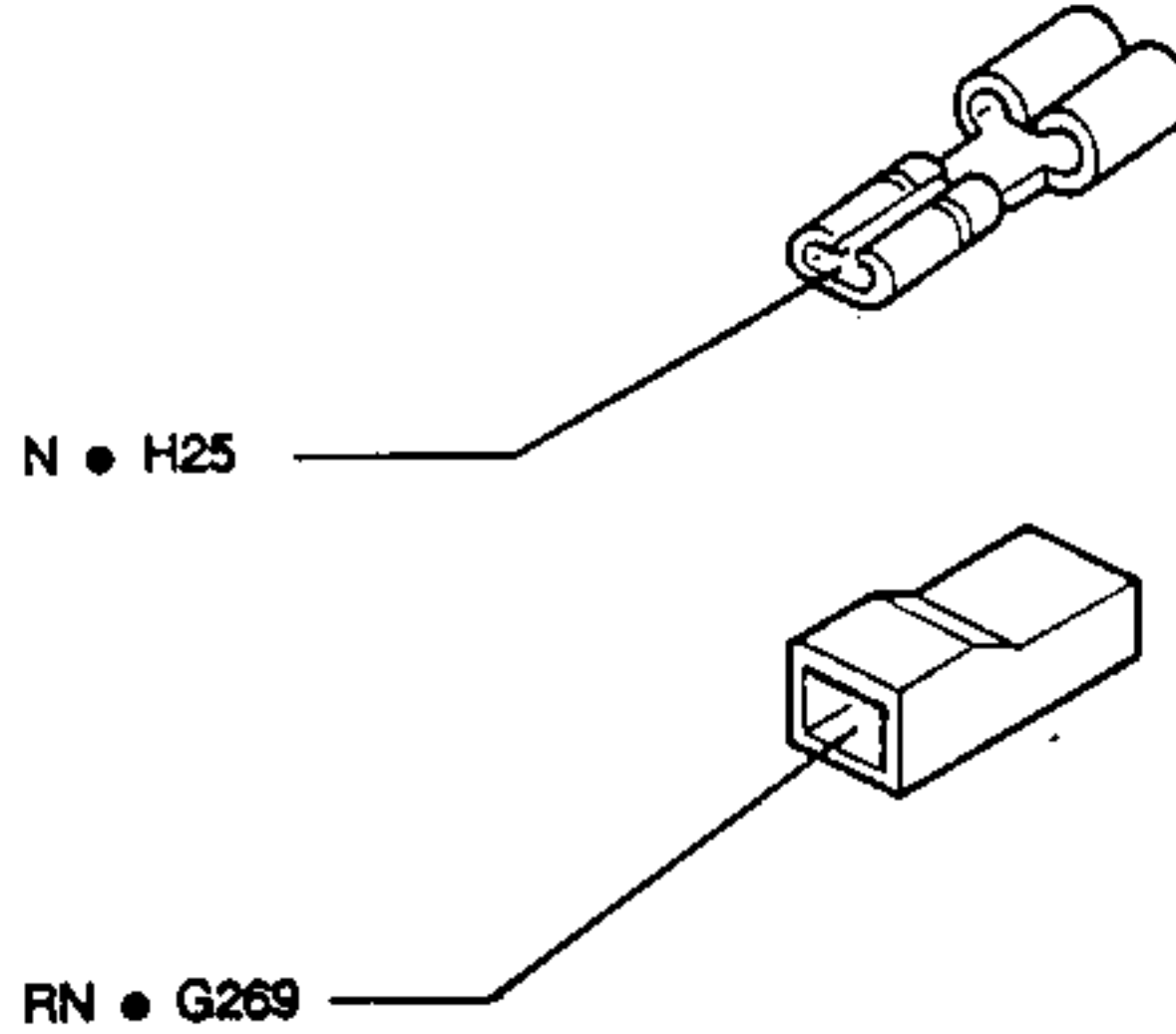
# ELECTRICAL SYSTEM

## Connectors

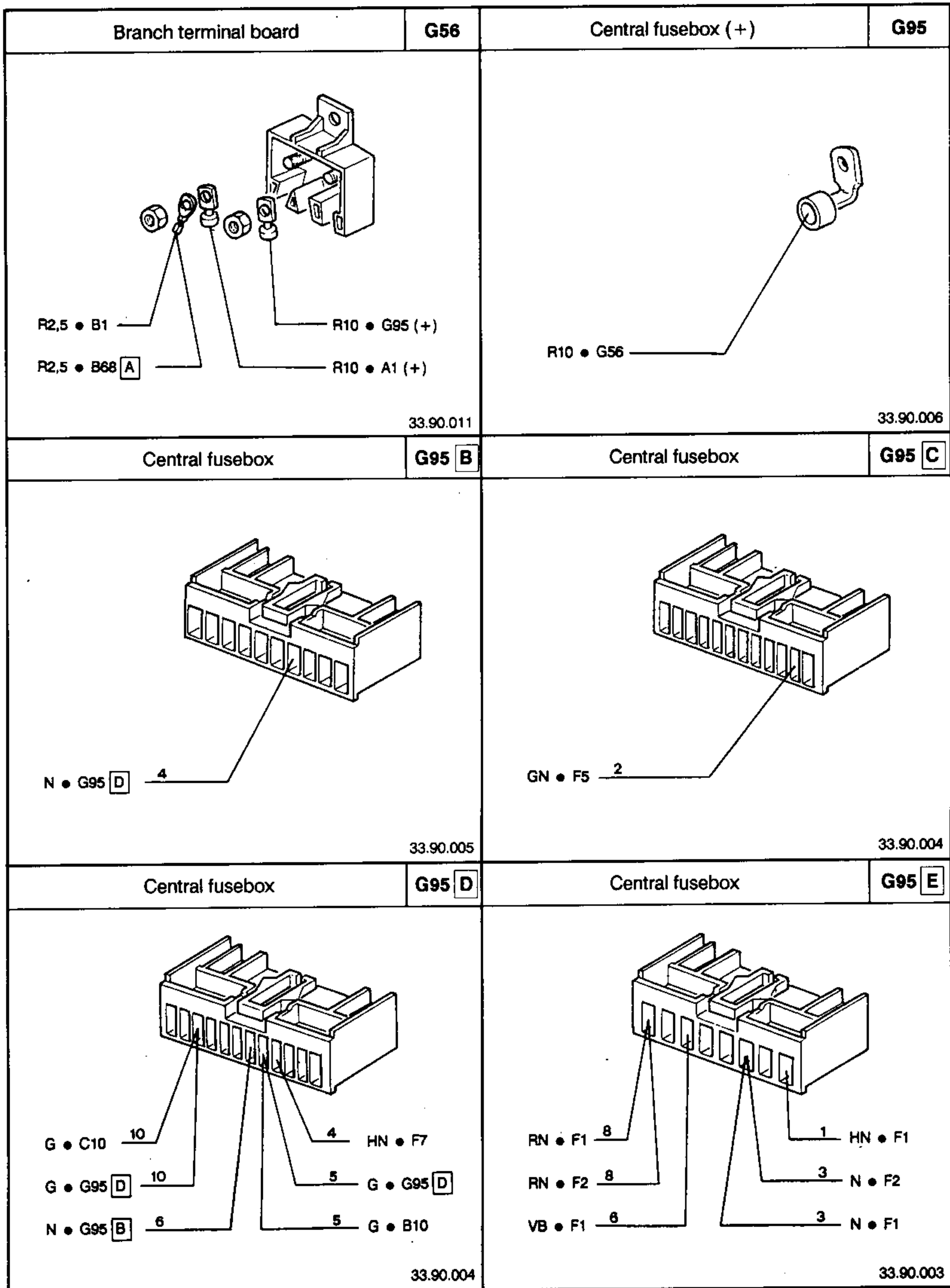
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
Fog lamp control switch	B10	Hazard warning lights control switch	B12
 <p>G • G95 [D] 8 G • B10 8 5 G • N41 5 G • B10</p>		 <p>N • I12 9 N • G95 [F] 9</p>	
33.90.008		33.90.008	
Turn signal switch unit	B68 A	Turn signal switch unit	B68 D
 <p>R2,5 • G56 2</p>		 <p>G1,5 • G95 [H] 3</p>	
33.90.027		33.90.027	



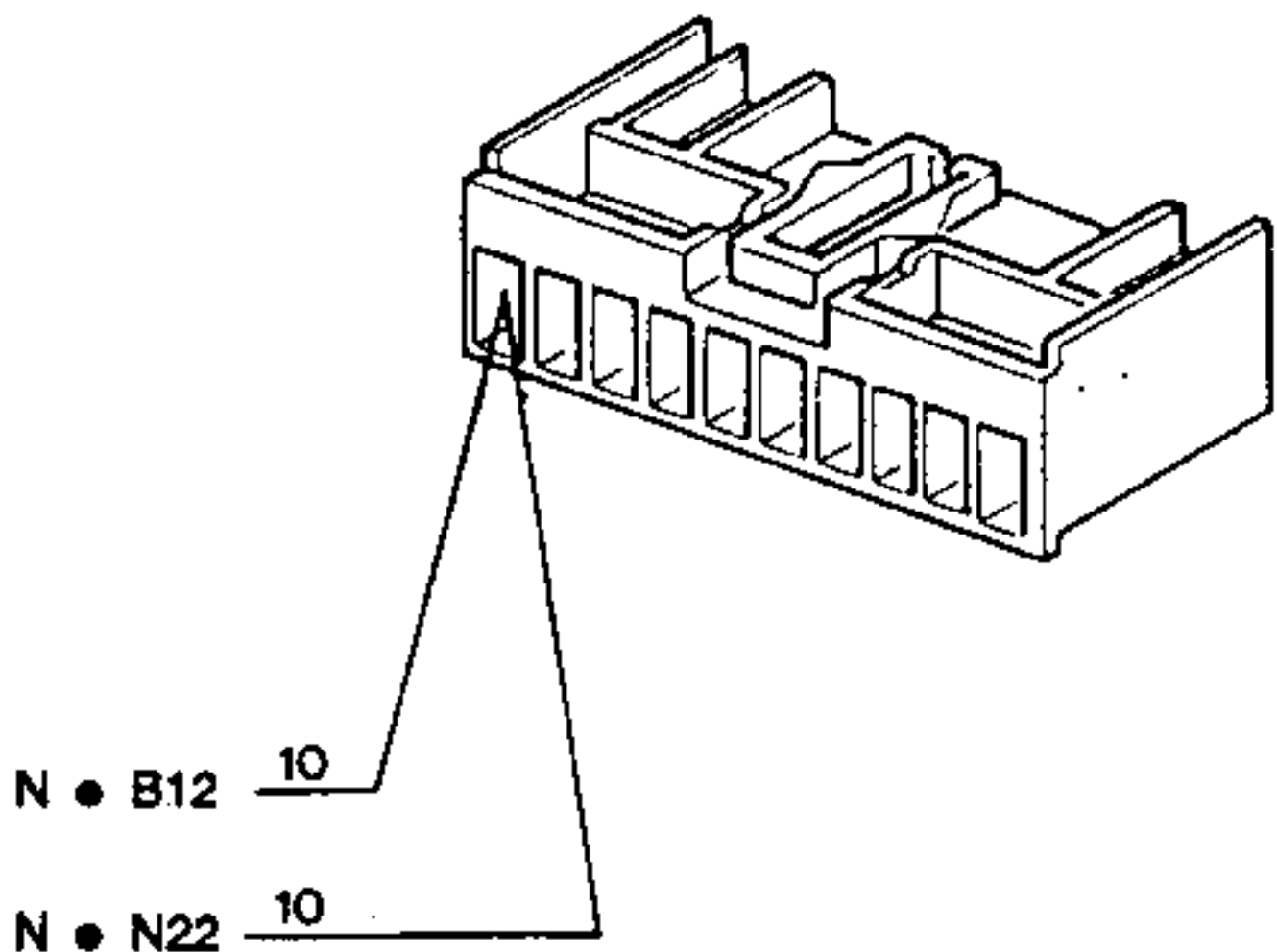
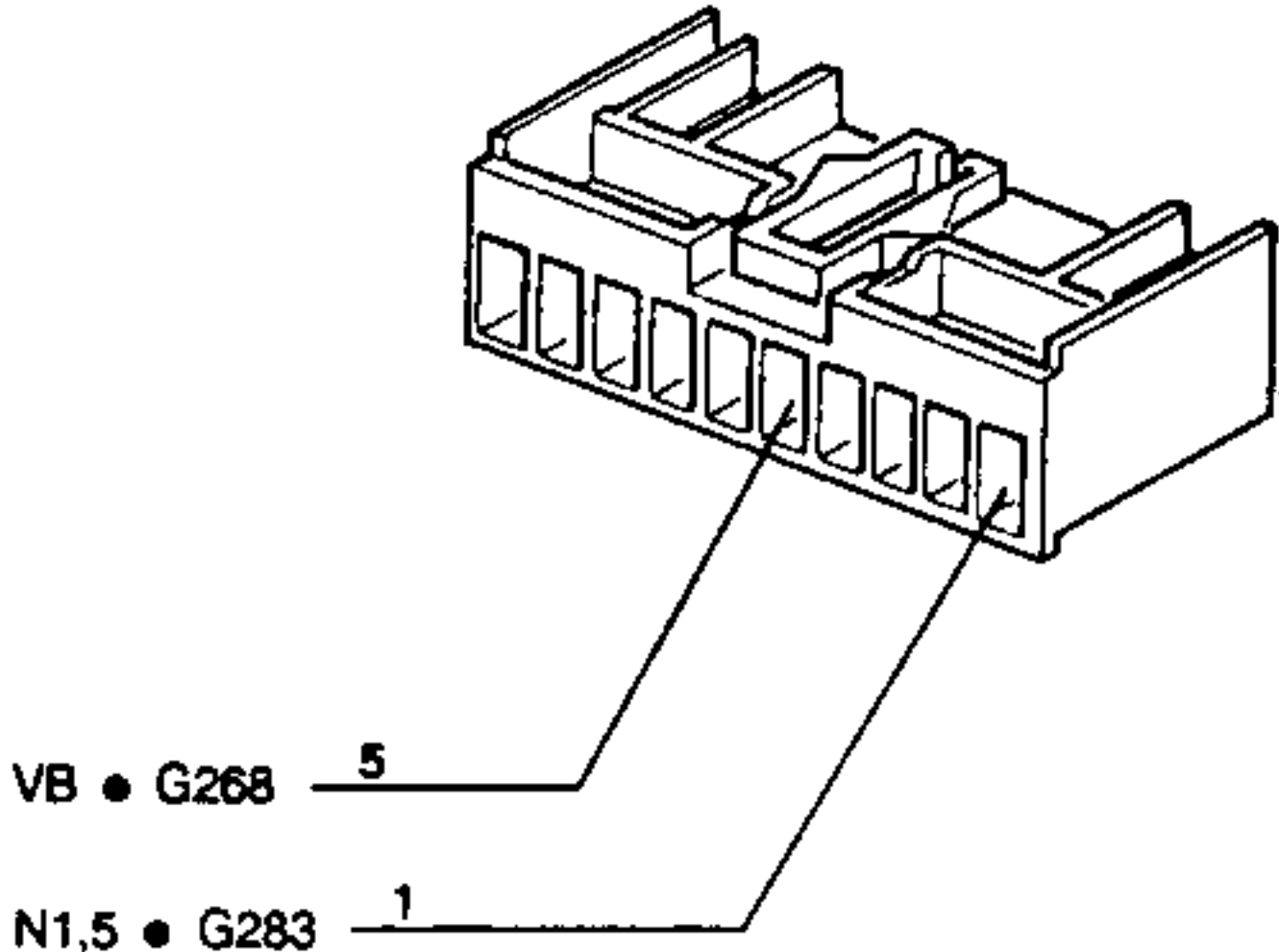
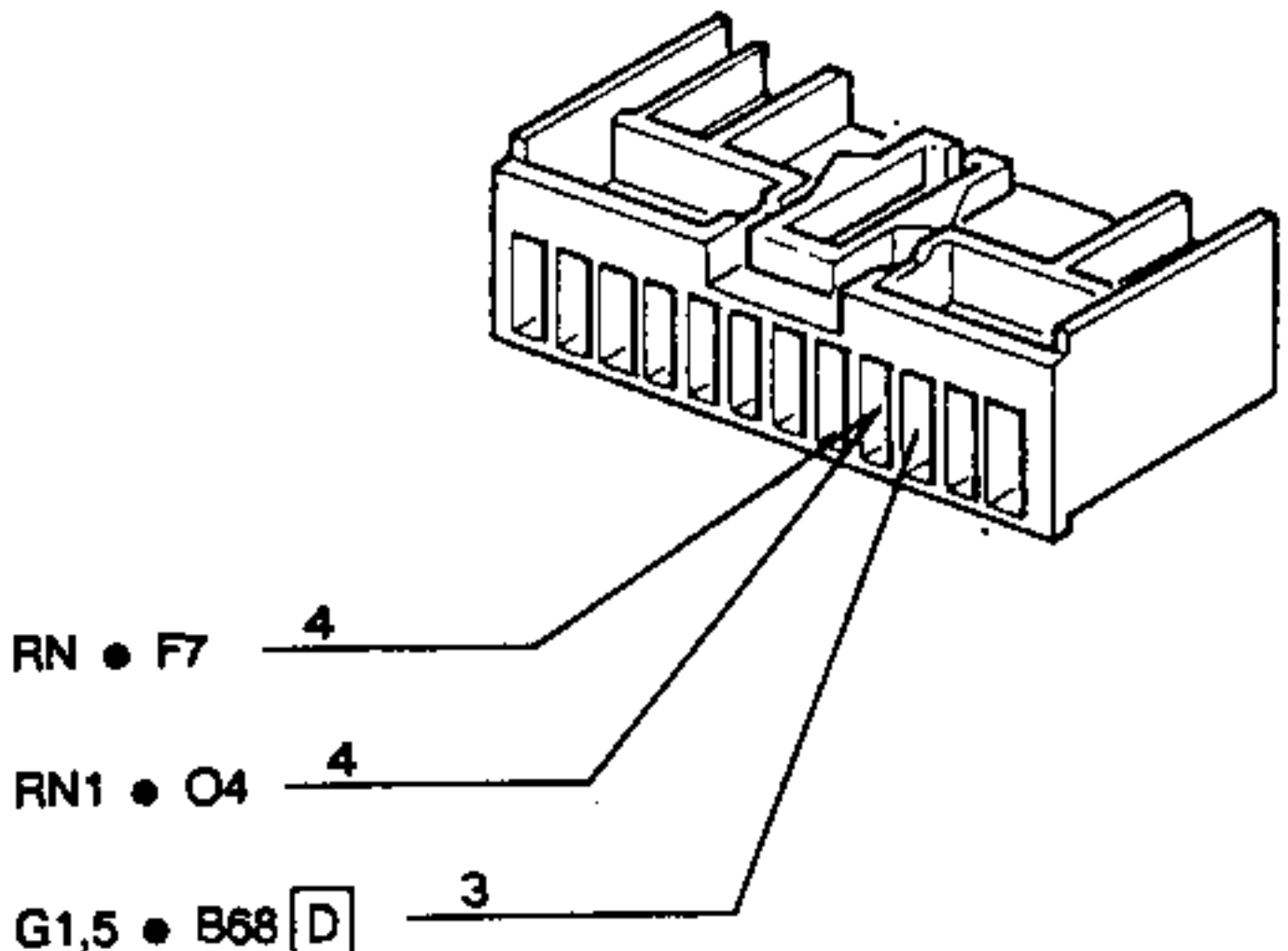
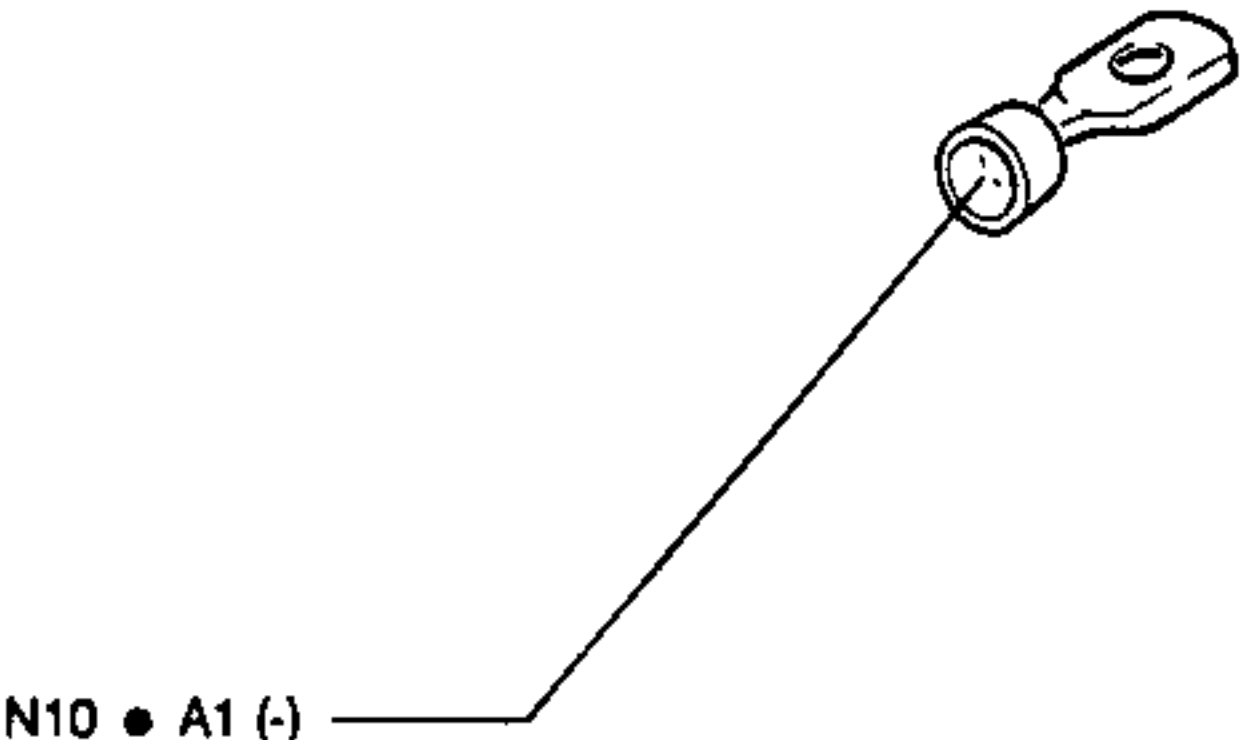
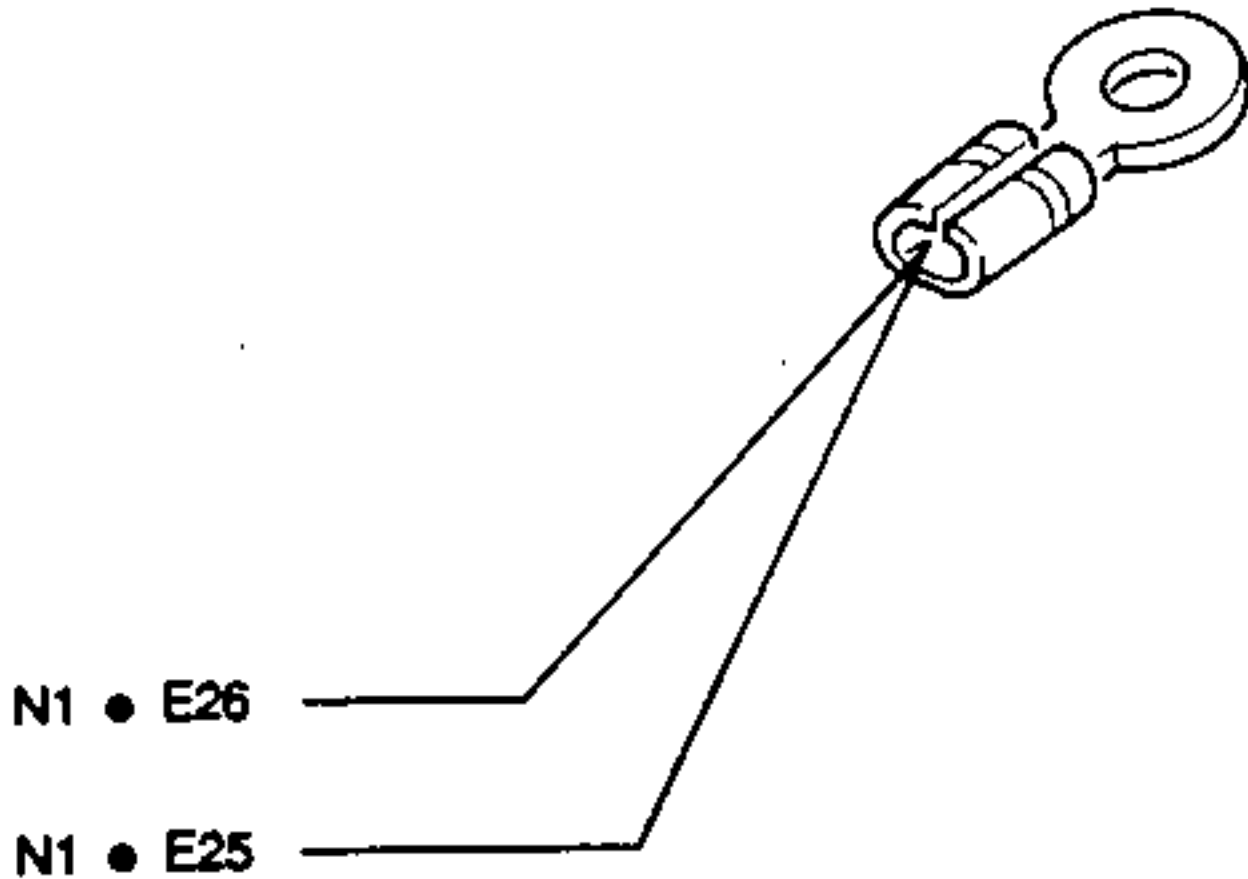
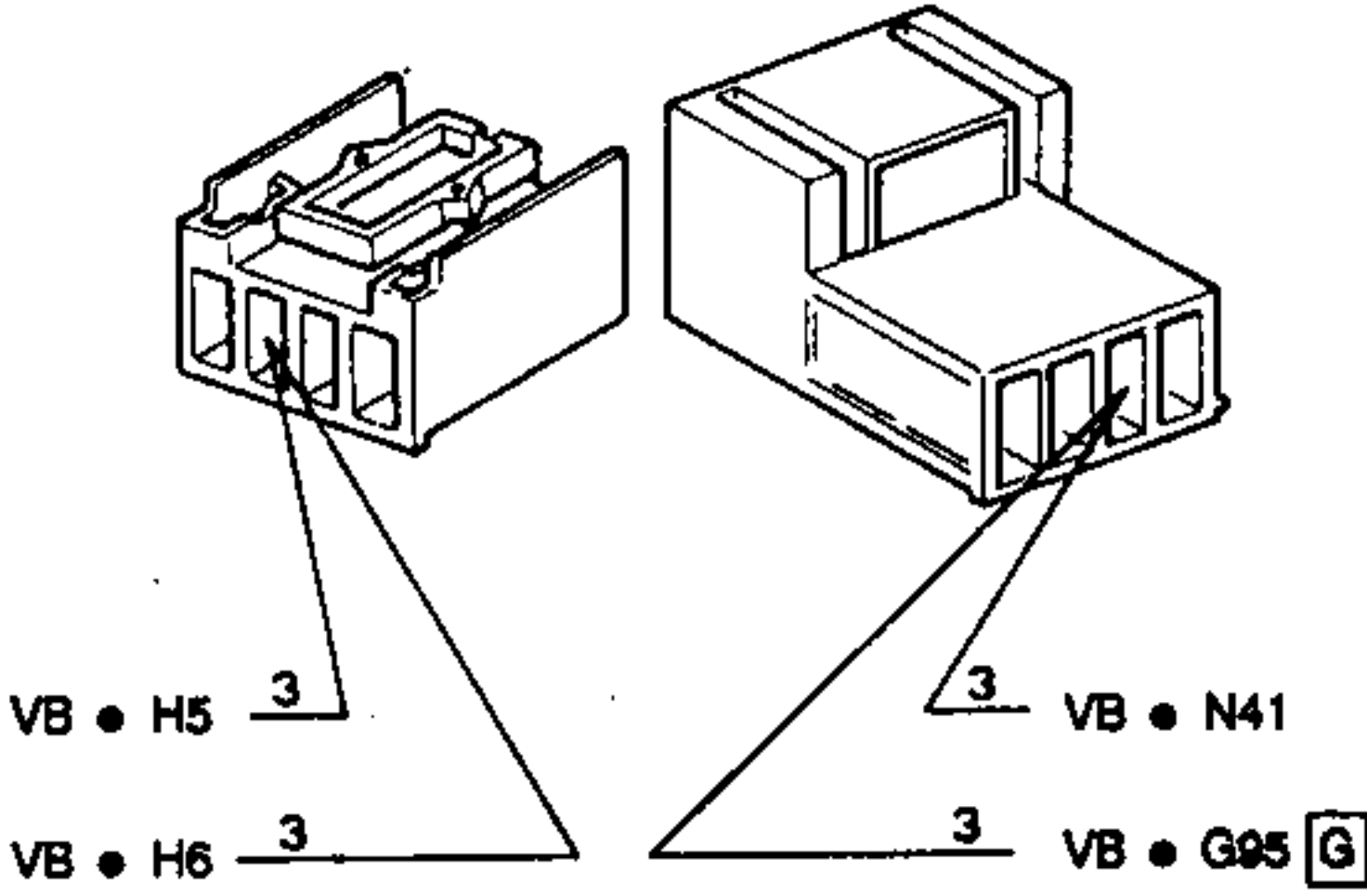
# ELECTRICAL SYSTEM

Right tail light	E25	Passenger compartment front roof lamp	F1
 <p>N1 • G185 6 N • F5 6</p> <p style="text-align: right;">33.90.033</p>		 <p>RN • C7 RN • G95 [E] VB • G95 [E] VB • F2 N • G95 [E] N • C7 HN • G95 [E]</p> <p style="text-align: right;">33.90.062 - 33.90.021 - 33.90.015</p>	
Passenger compartment rear roof lamp	F2	Luggage compartment lamp	F5
 <p>VB • F1 N • G95 [E] RN • G95 [E]</p> <p style="text-align: right;">33.90.021 - 33.90.015</p>		 <p>N • E25 GN • G95 [C]</p> <p style="text-align: right;">33.90.015 - 33.90.021</p>	
Fuse light	F7	Glovebox light	F9
 <p>RN • G95 [H] HN • G95 [D]</p> <p style="text-align: right;">33.90.063</p>		 <p>N • H25 RN • G269</p> <p style="text-align: right;">33.90.015 - 33.90.021</p>	

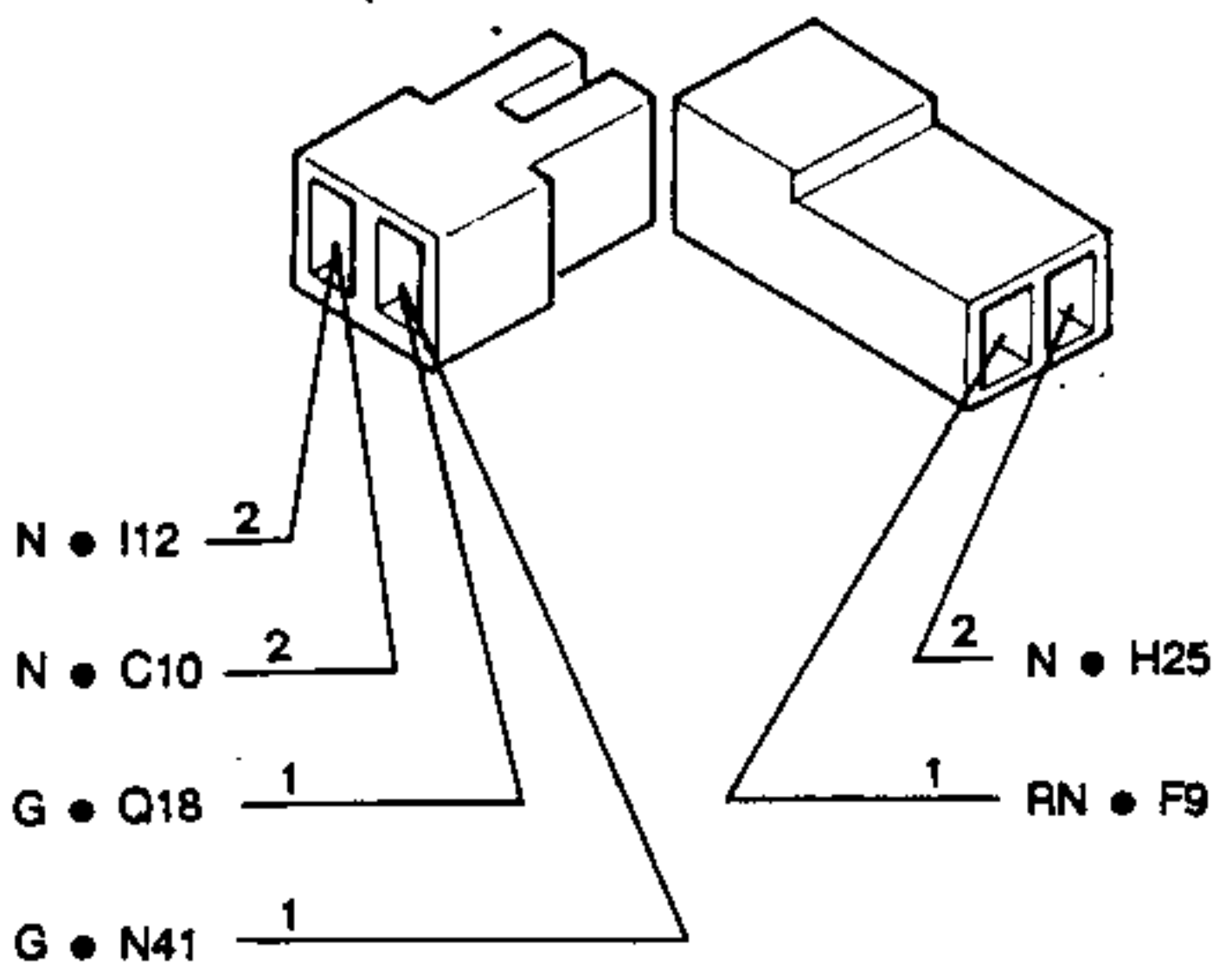
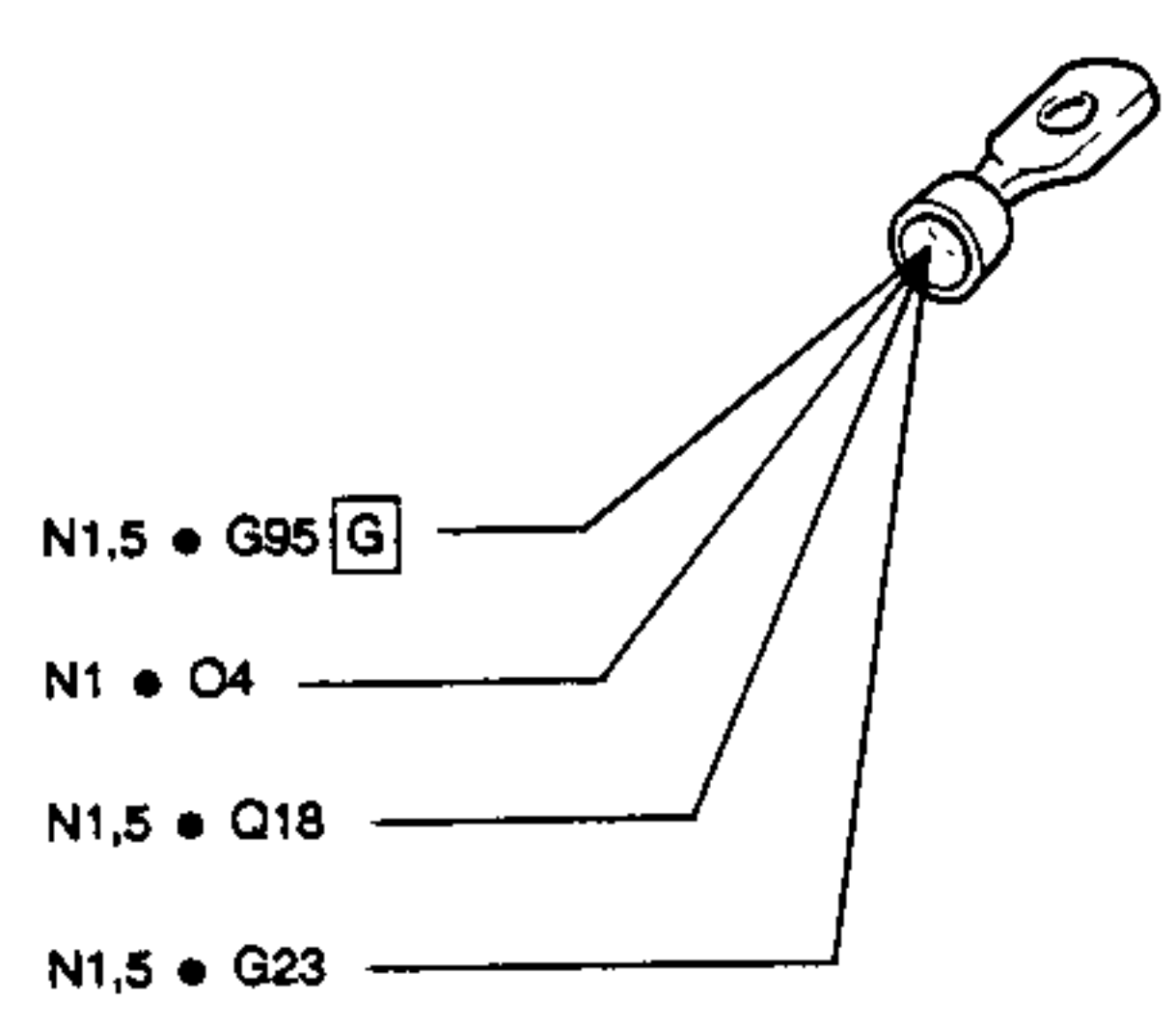
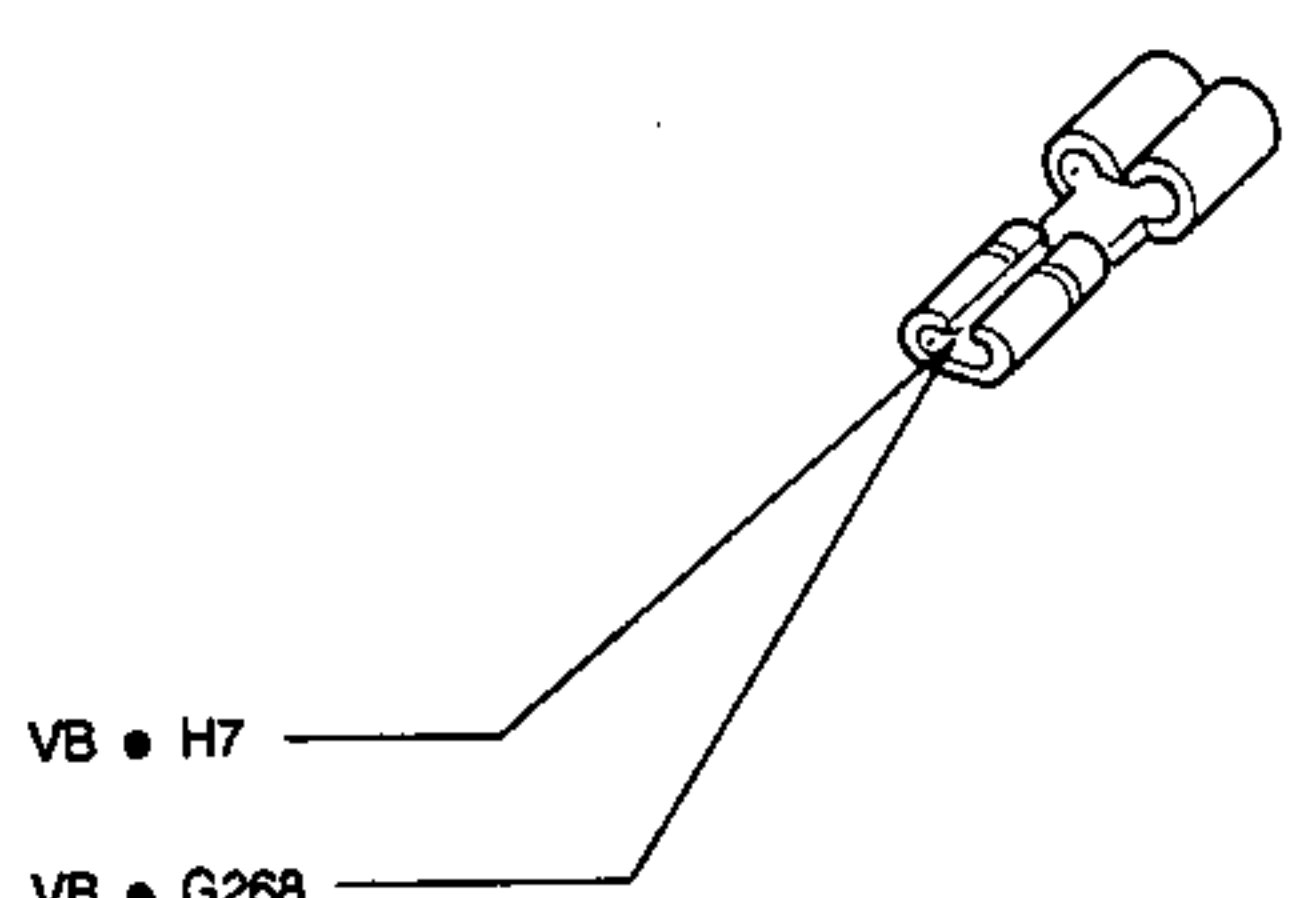
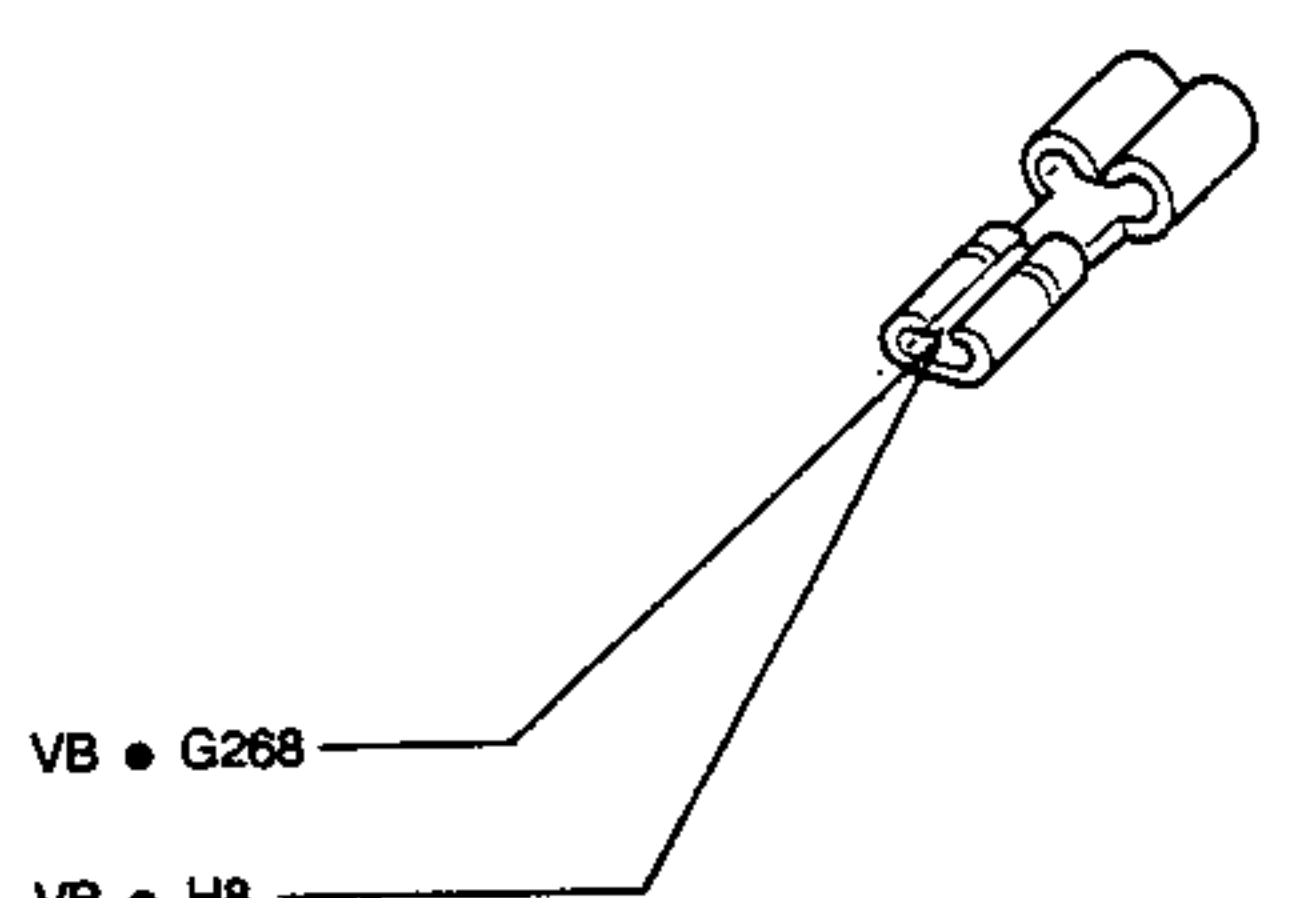
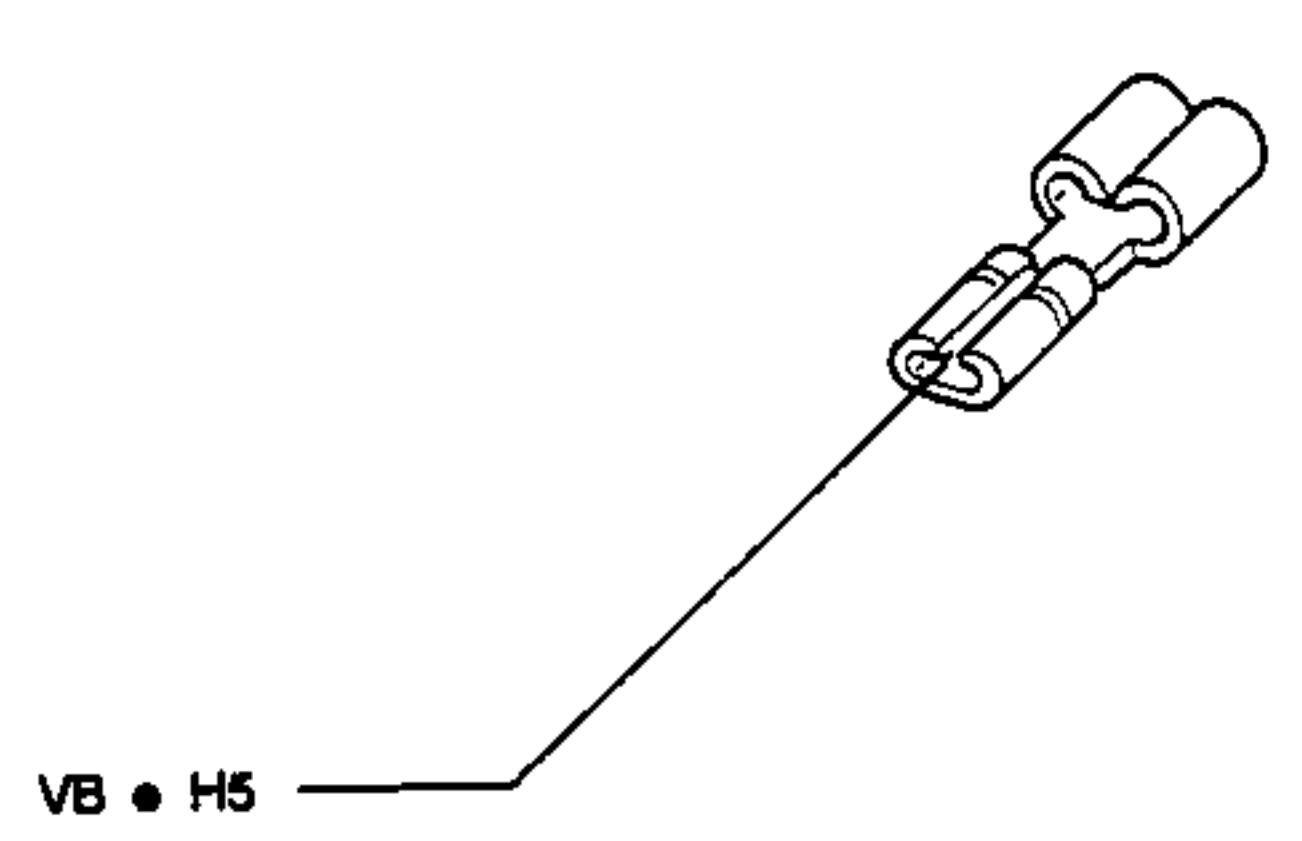
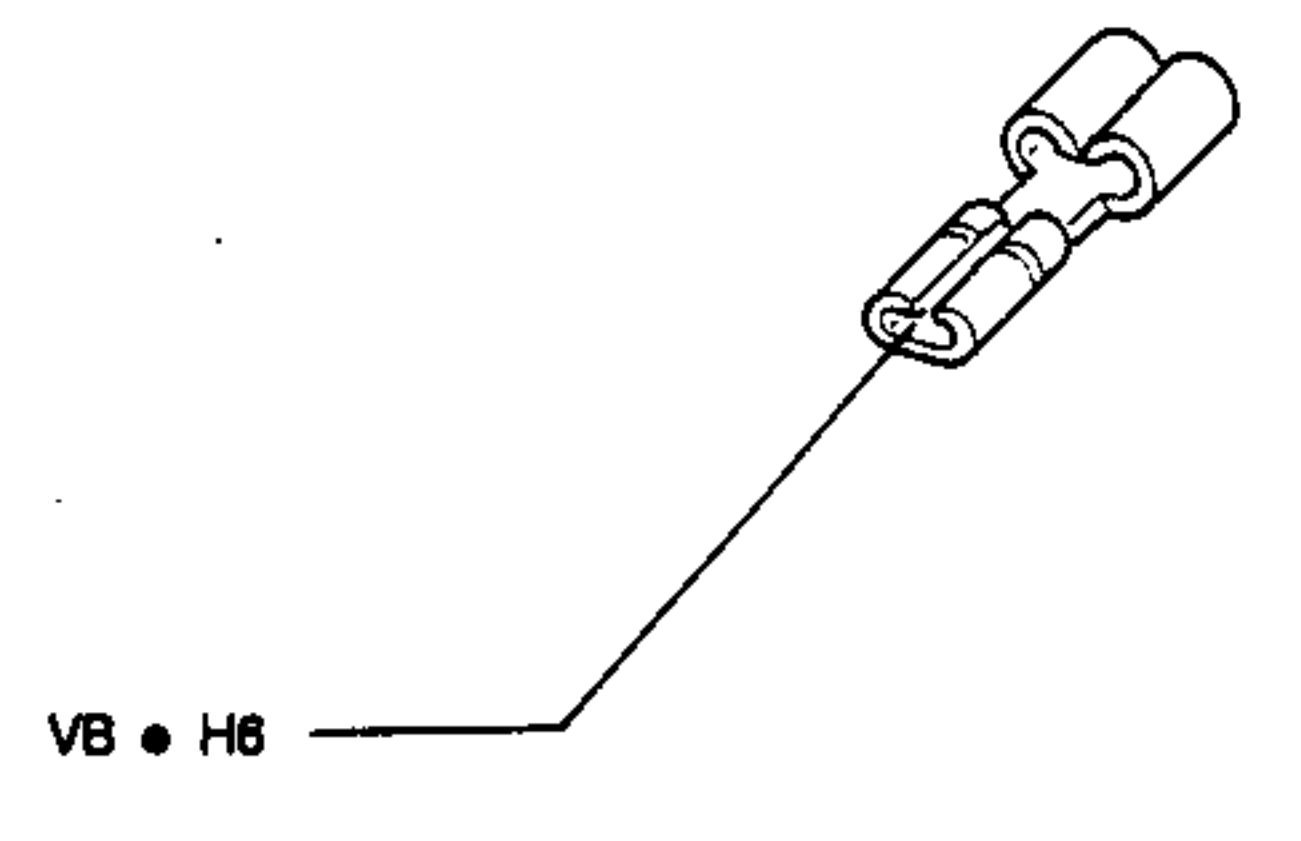
# ELECTRICAL SYSTEM



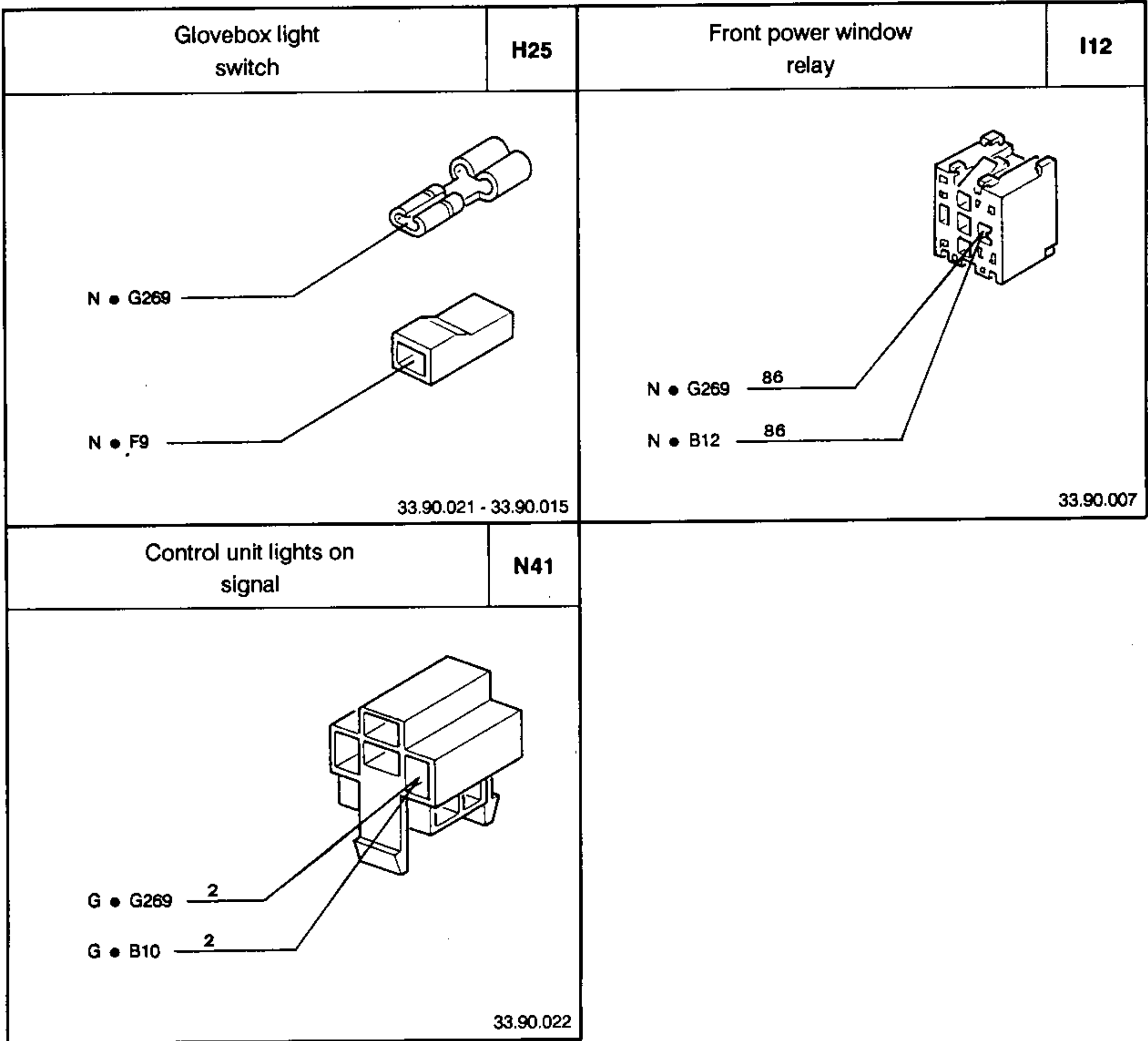
ELECTRICAL SYSTEM

<p>Central fusebox</p>	<p>G95 F</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N • B12 10</p> <p>N • N22 10</p> <p>33.90.005</p>		 <p>VB • G268 5</p> <p>N1.5 • G283 1</p> <p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 H</p>	<p>Central service compartment earth</p>	<p>G143</p>
 <p>RN • F7 4</p> <p>RN1 • O4 4</p> <p>G1,5 • B68 D 3</p> <p>33.90.004</p>		 <p>N10 • A1 (-)</p> <p>33.90.001</p>	
<p>Luggage compartment earth - left side</p>	<p>G185</p>	<p>Door lock wiring and handbrake switch wiring connector</p>	<p>G268</p>
 <p>N1 • E26</p> <p>N1 • E25</p> <p>33.90.032</p>		 <p>VB • H5 3</p> <p>VB • H6 3</p> <p>VB • N41 3</p> <p>VB • G95 G 3</p> <p>33.90.018</p>	

**ELECTRICAL SYSTEM**

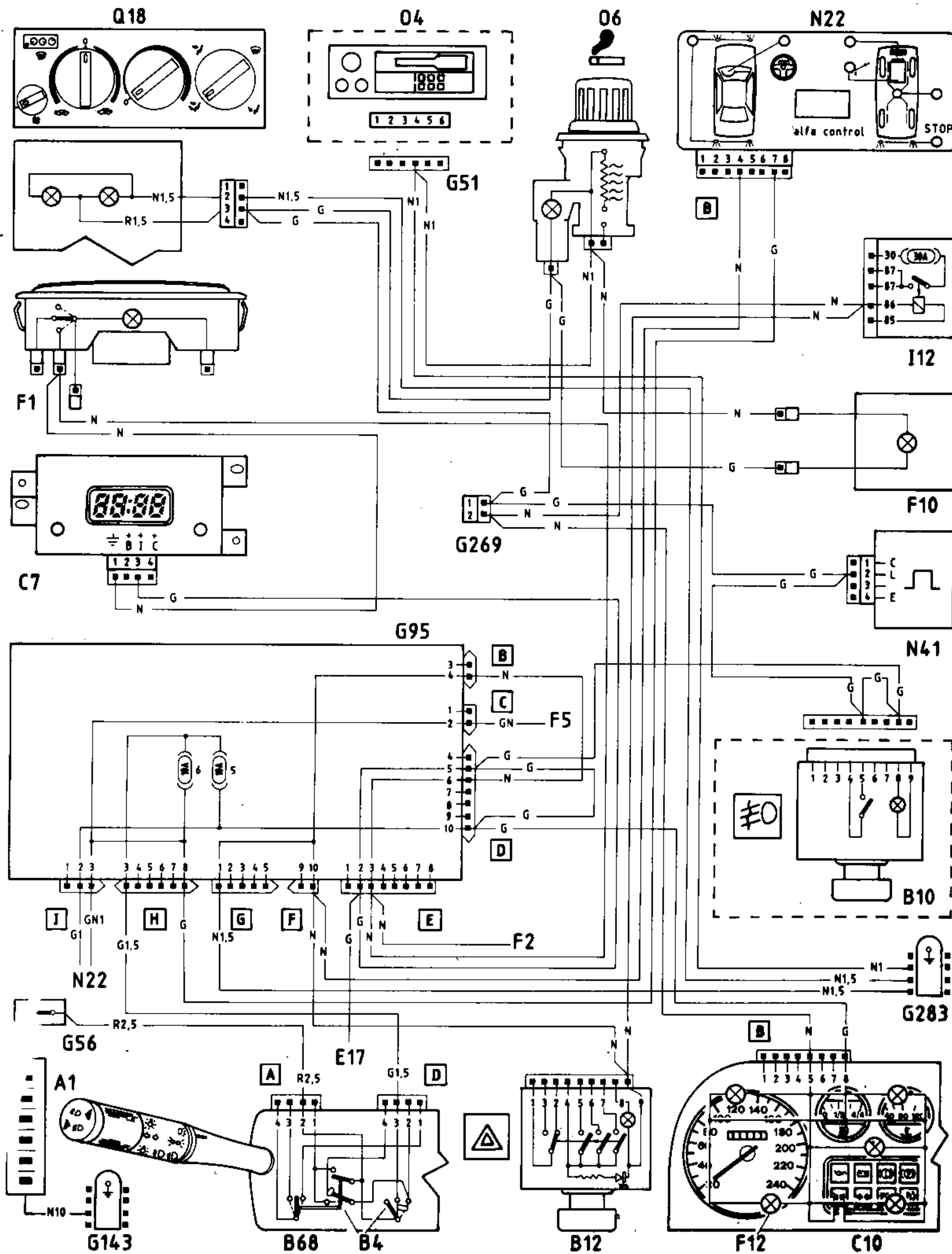
<p>Glove compartment lamp connection</p>	<p><b>G269</b></p>	<p>Earth on left service compartment</p>	<p><b>G283</b></p>
 <p>N • I12 2 N • C10 2 G • Q18 1 G • N41 1</p> <p>N • H25 2 RN • F9 1</p> <p align="right">33.90.013</p>		 <p>N1,5 • G95 G N1 • O4 N1,5 • Q18 N1,5 • G23</p> <p align="right">33.90.001</p>	
<p>Left front door open indicator switch</p>	<p><b>H5</b></p>	<p>Right front door open indicator switch</p>	<p><b>H6</b></p>
 <p>VB • H7 VB • G268</p> <p align="right">33.90.021</p>		 <p>VB • G268 VB • H8</p> <p align="right">33.90.021</p>	
<p>Left rear door open indicator switch</p>	<p><b>H7</b></p>	<p>Right rear door open indicator switch</p>	<p><b>H8</b></p>
 <p>VB • H5</p> <p align="right">33.90.021</p>		 <p>VB • H6</p> <p align="right">33.90.021</p>	

ELECTRICAL SYSTEM

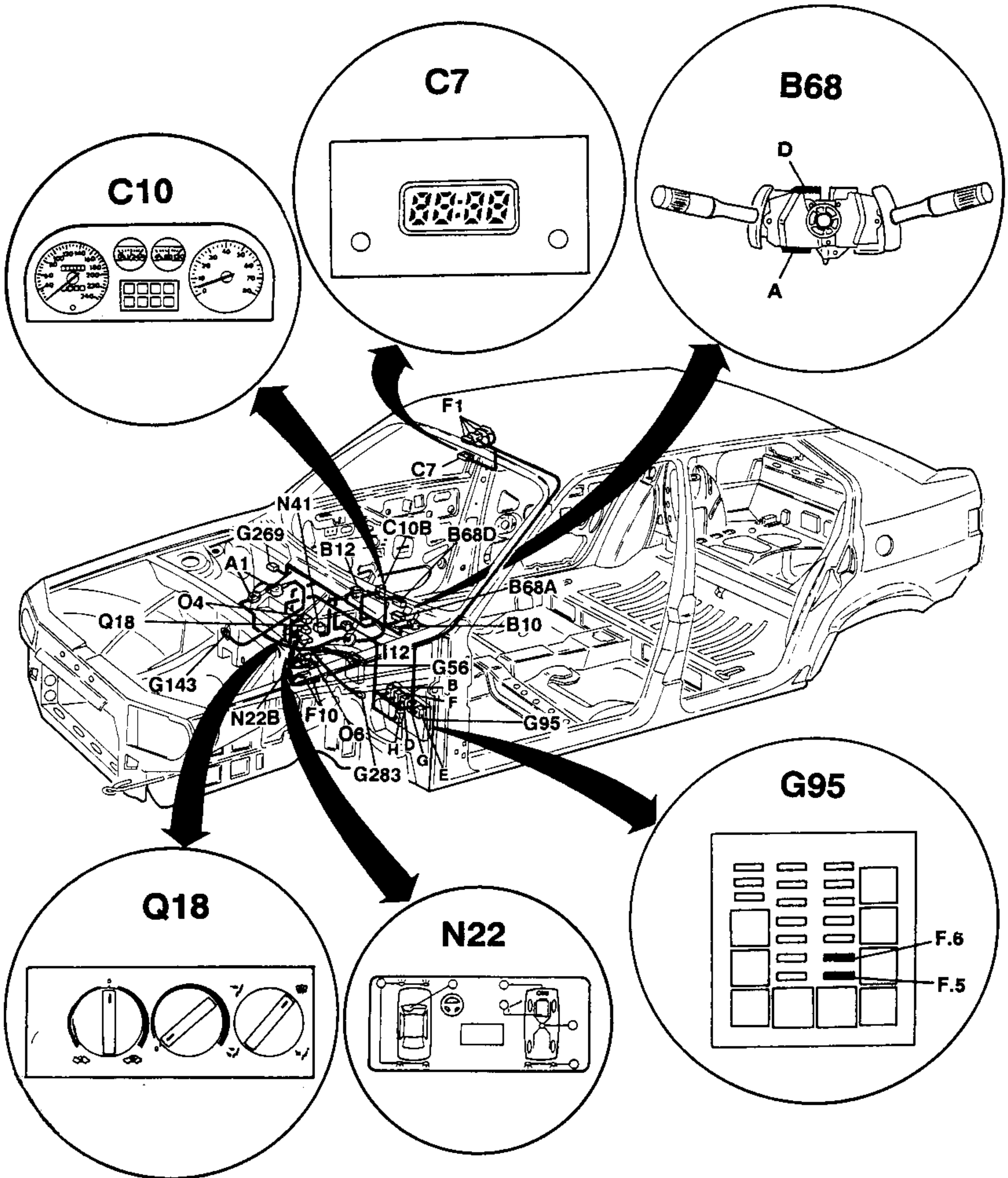


INSTRUMENT LIGHTING

Wiring diagram

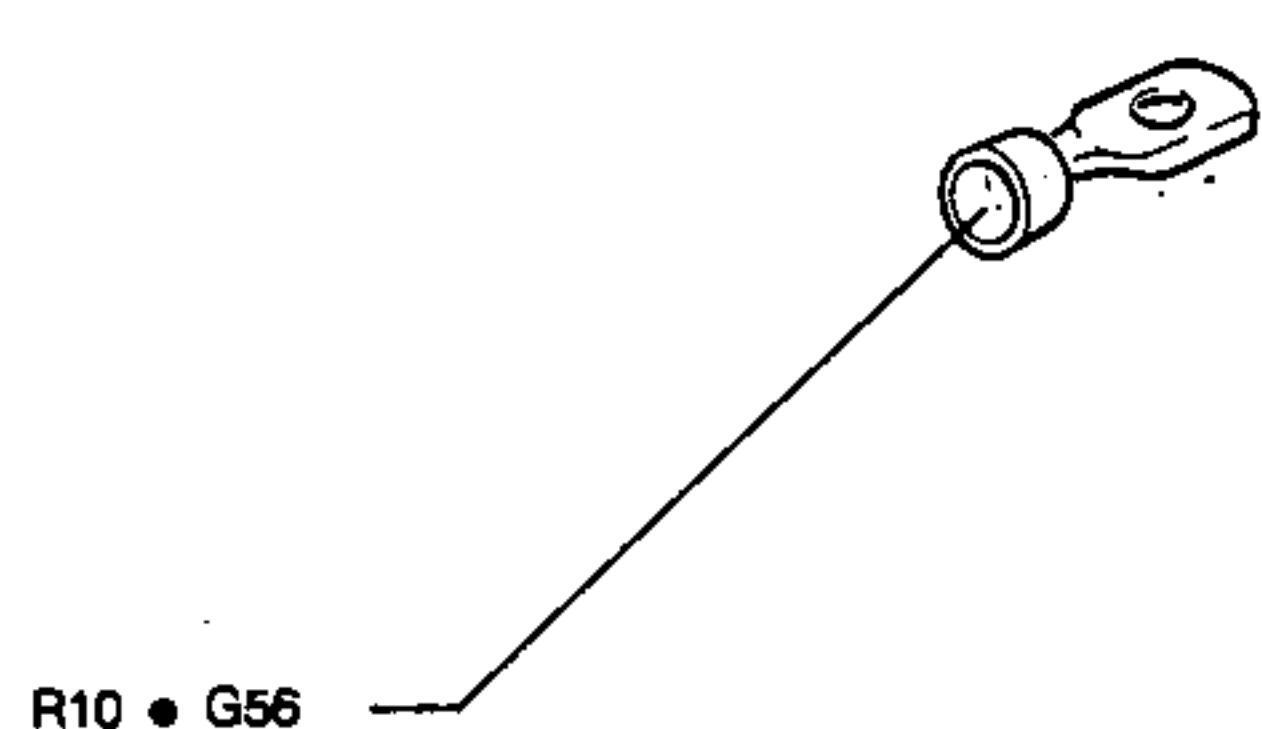
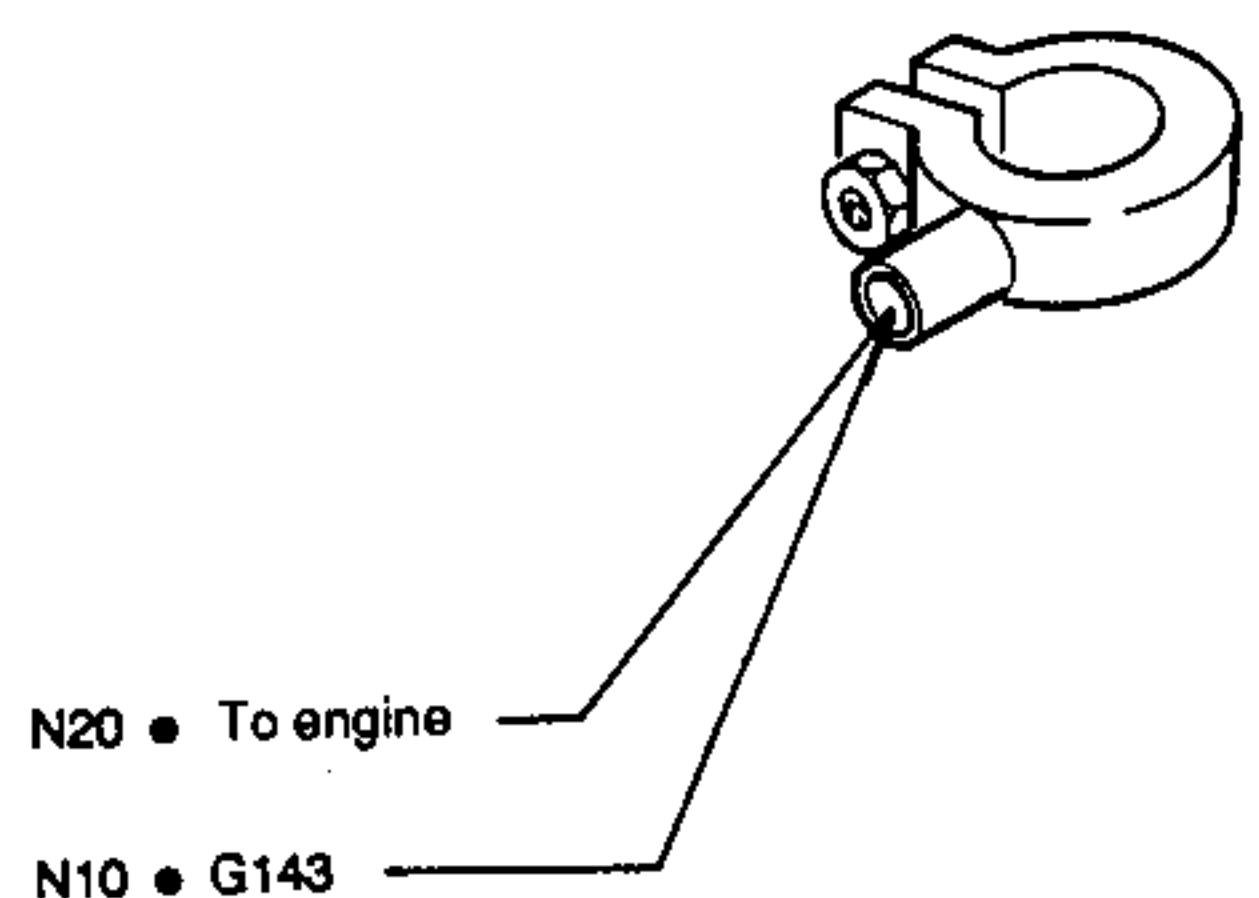
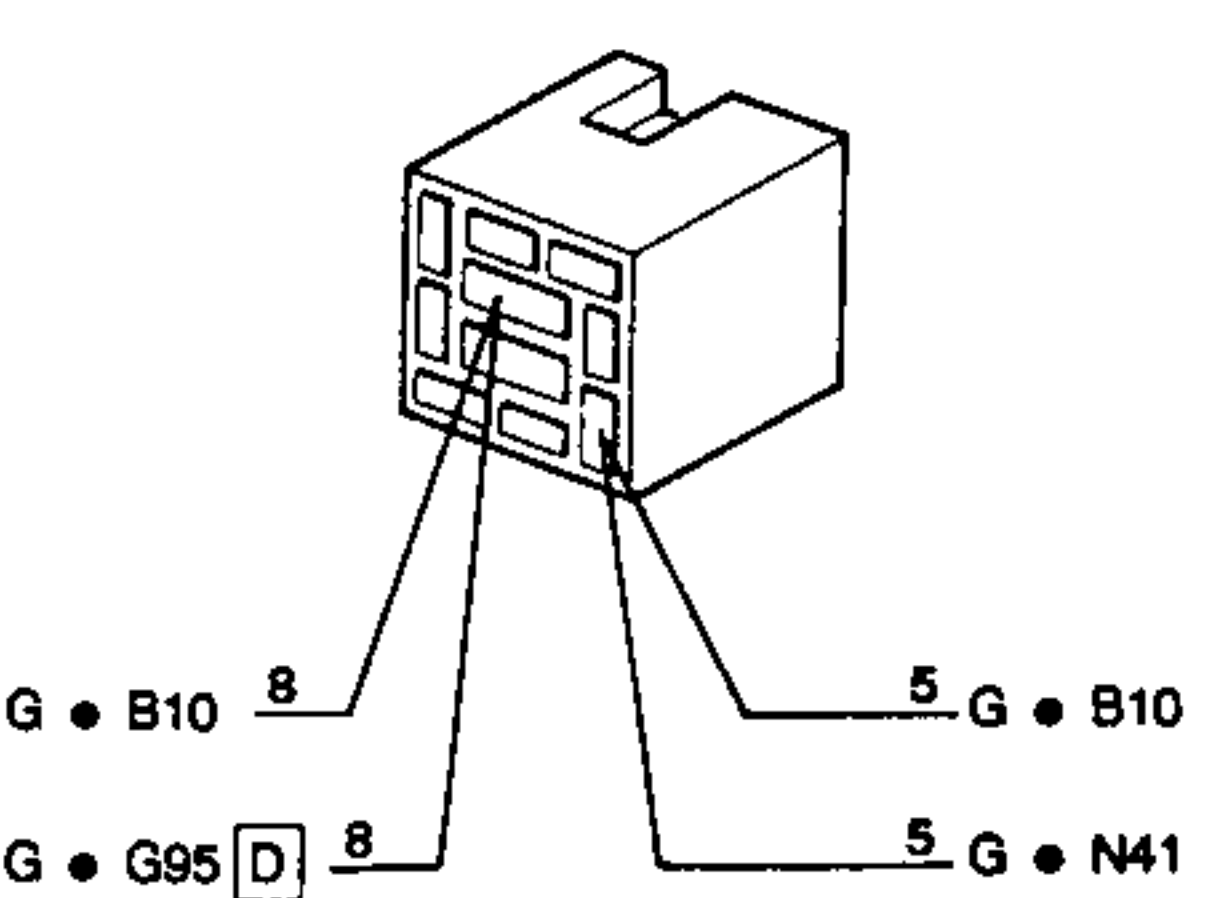
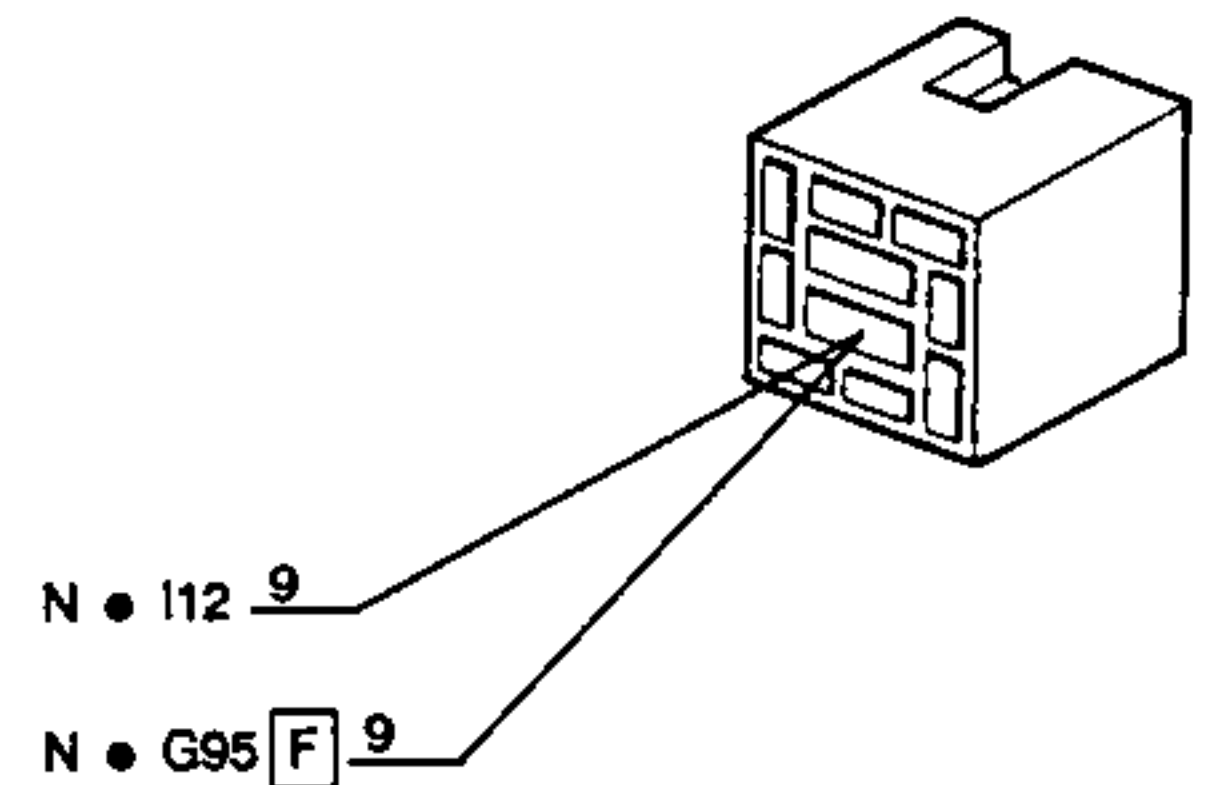
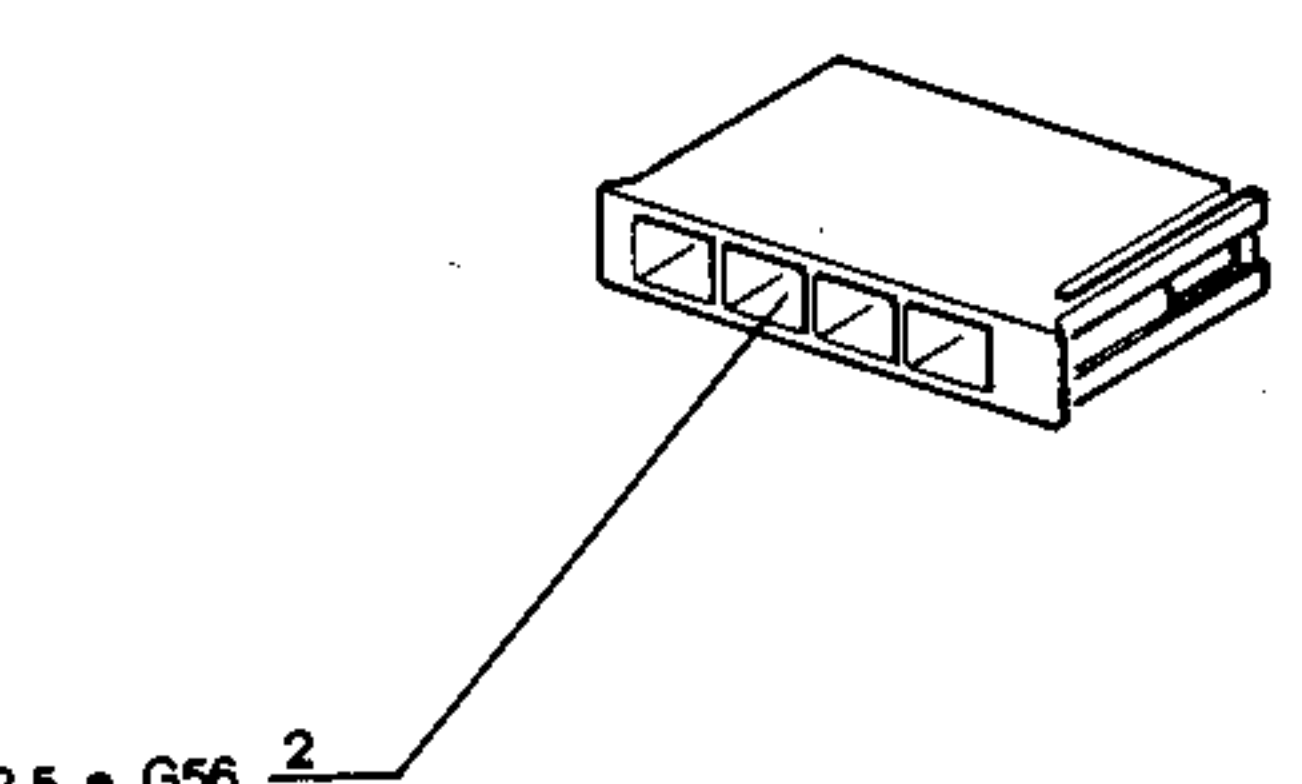
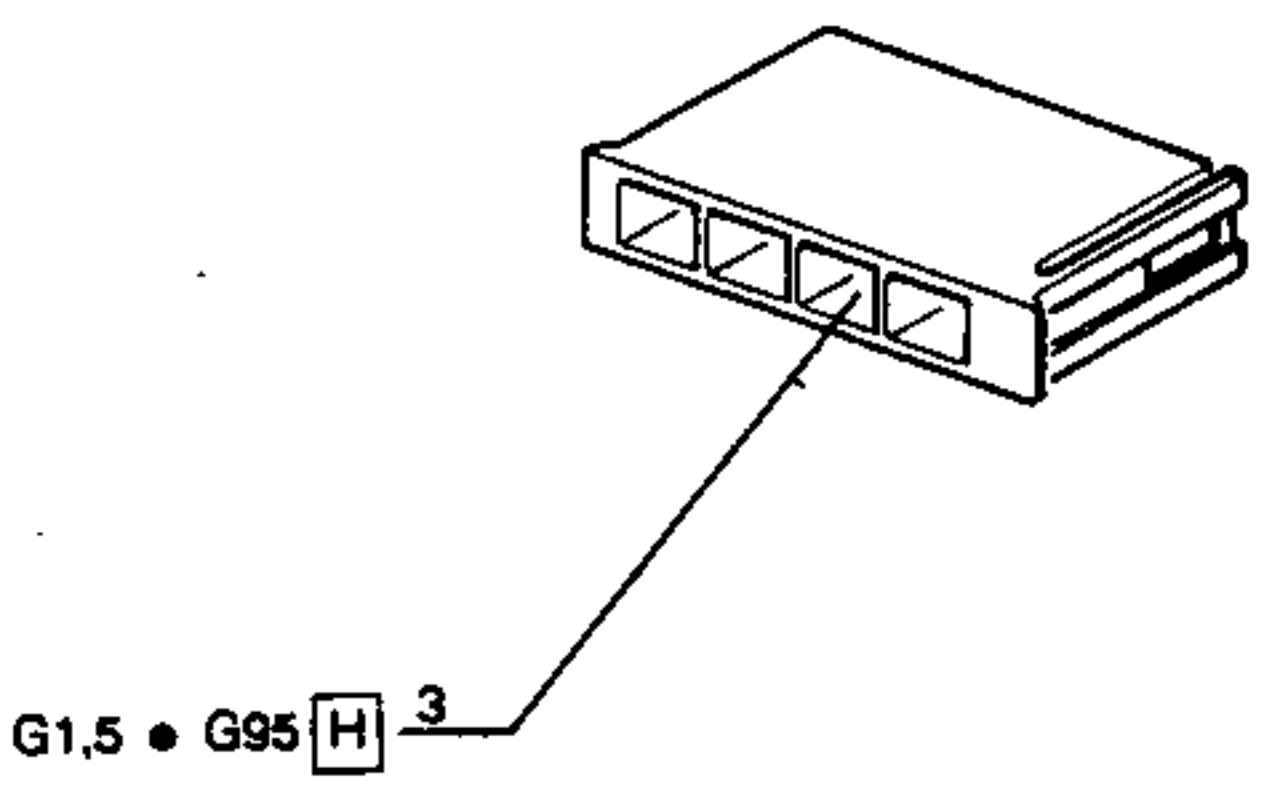


Wiring



# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N20 • To engine N10 • G143</p>	33.90.002
Fog light control switch	B10	Hazard warning lights control switch	B12
 <p>G • B10 8 G • G95 <span style="border: 1px solid black; padding: 0 2px;">D</span> 8 G • B10 5 G • N41 5</p>	33.90.008	 <p>N • 112 9 N • G95 <span style="border: 1px solid black; padding: 0 2px;">F</span> 9</p>	33.90.008
Turn signal switch unit	B68 <span style="border: 1px solid black; padding: 0 2px;">A</span>	Turn signal switch unit	B68 <span style="border: 1px solid black; padding: 0 2px;">D</span>
 <p>22,5 • G56 2</p>	33.90.027	 <p>G1,5 • G95 <span style="border: 1px solid black; padding: 0 2px;">H</span> 3</p>	33.90.027

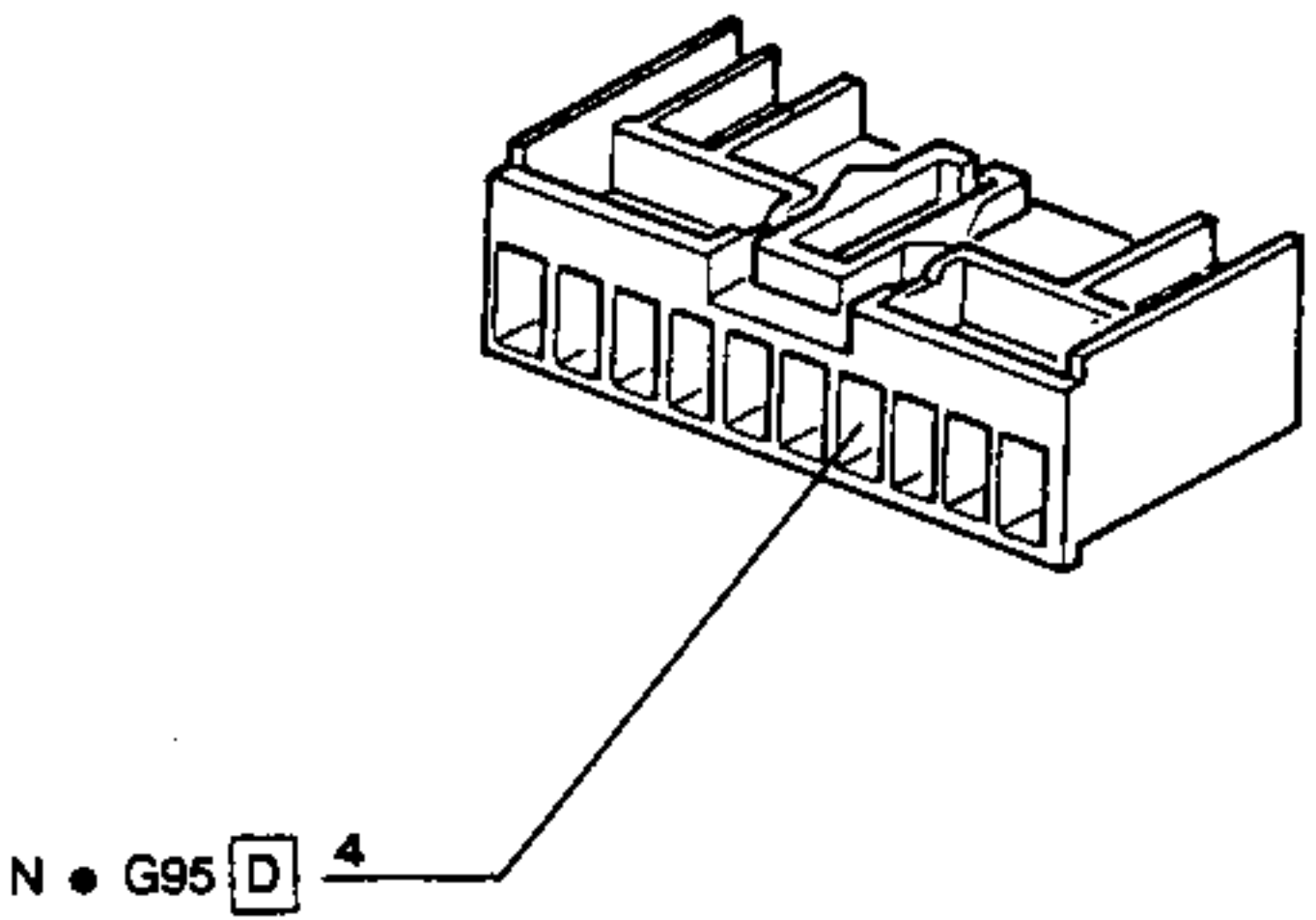
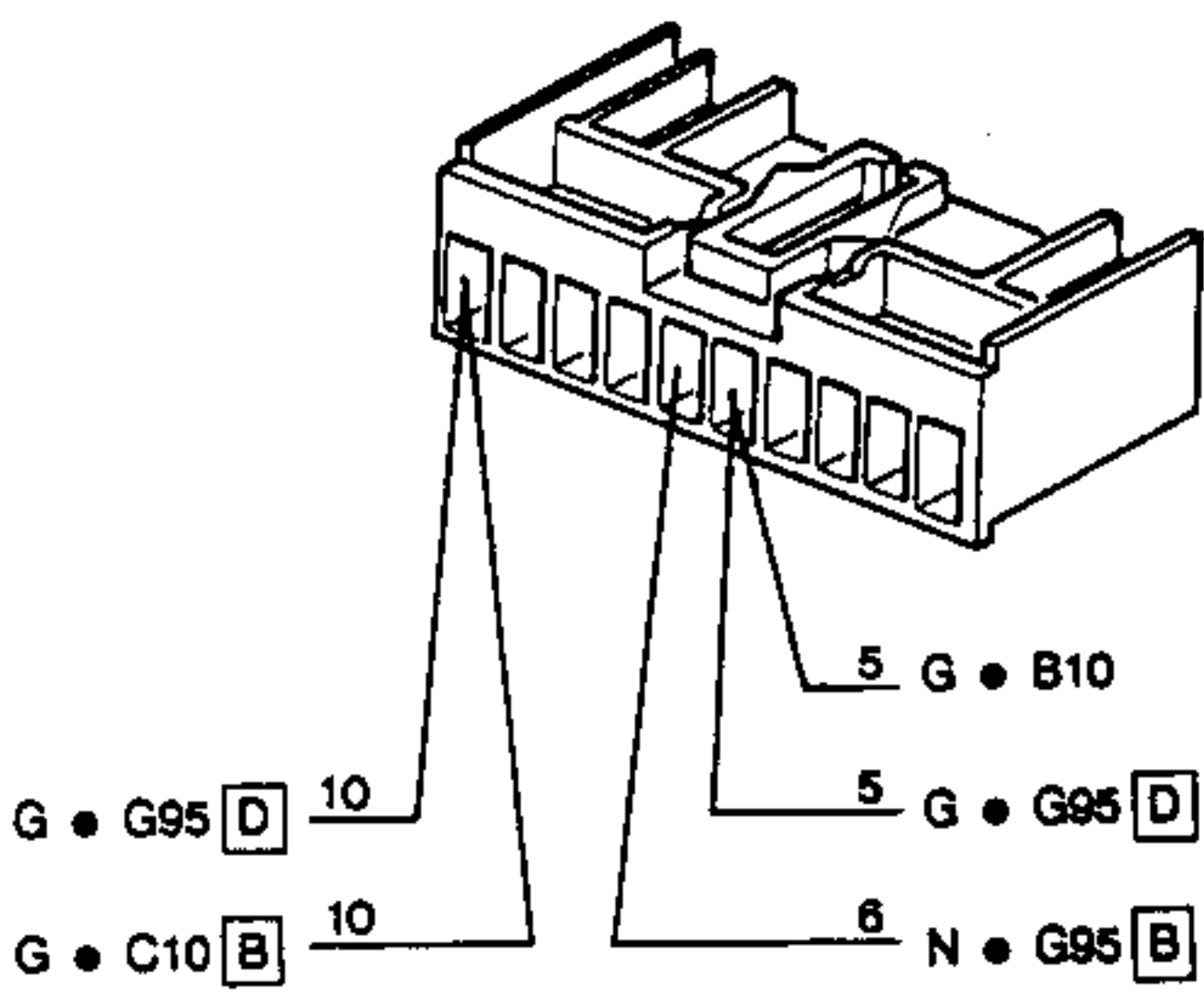
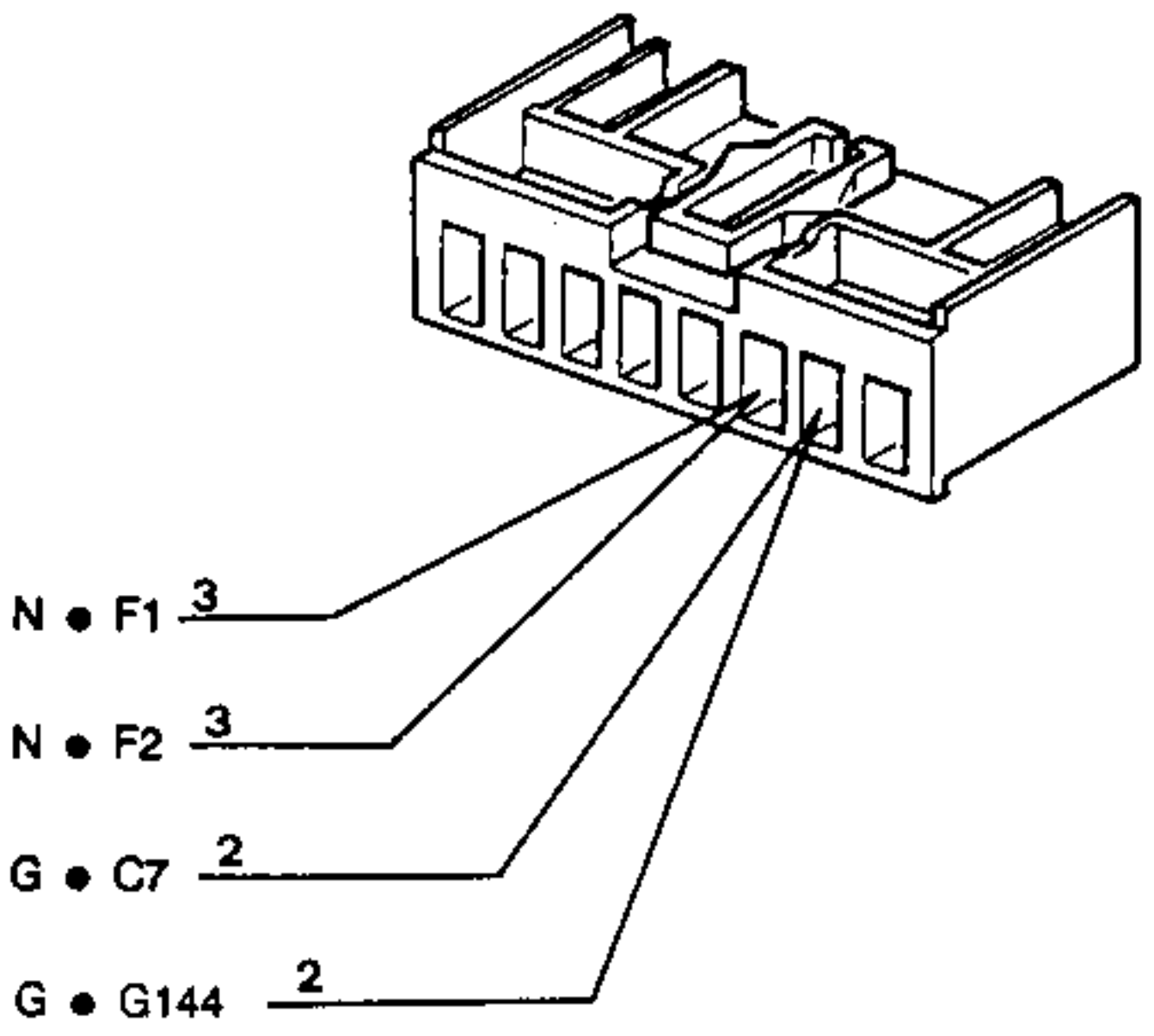
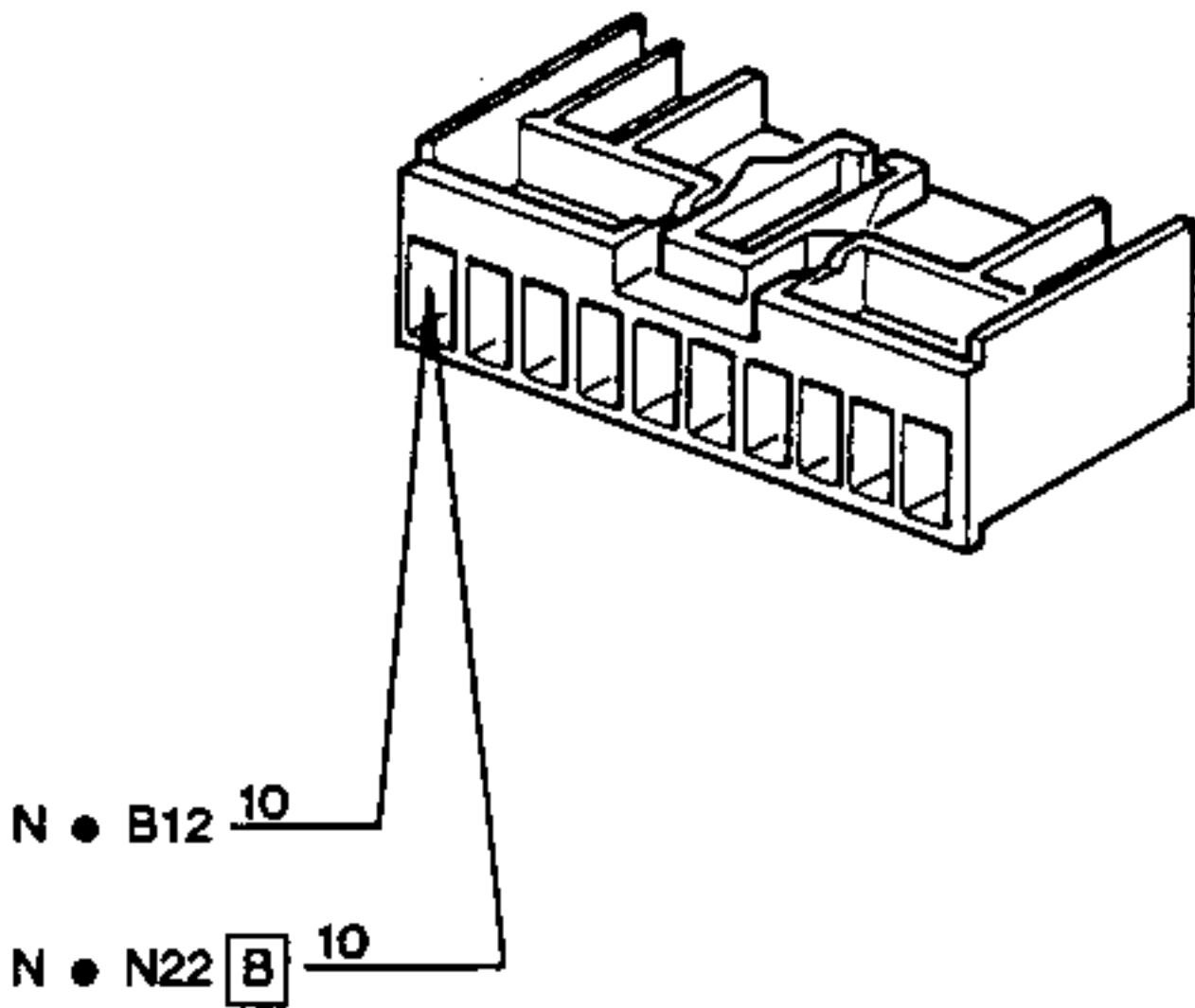
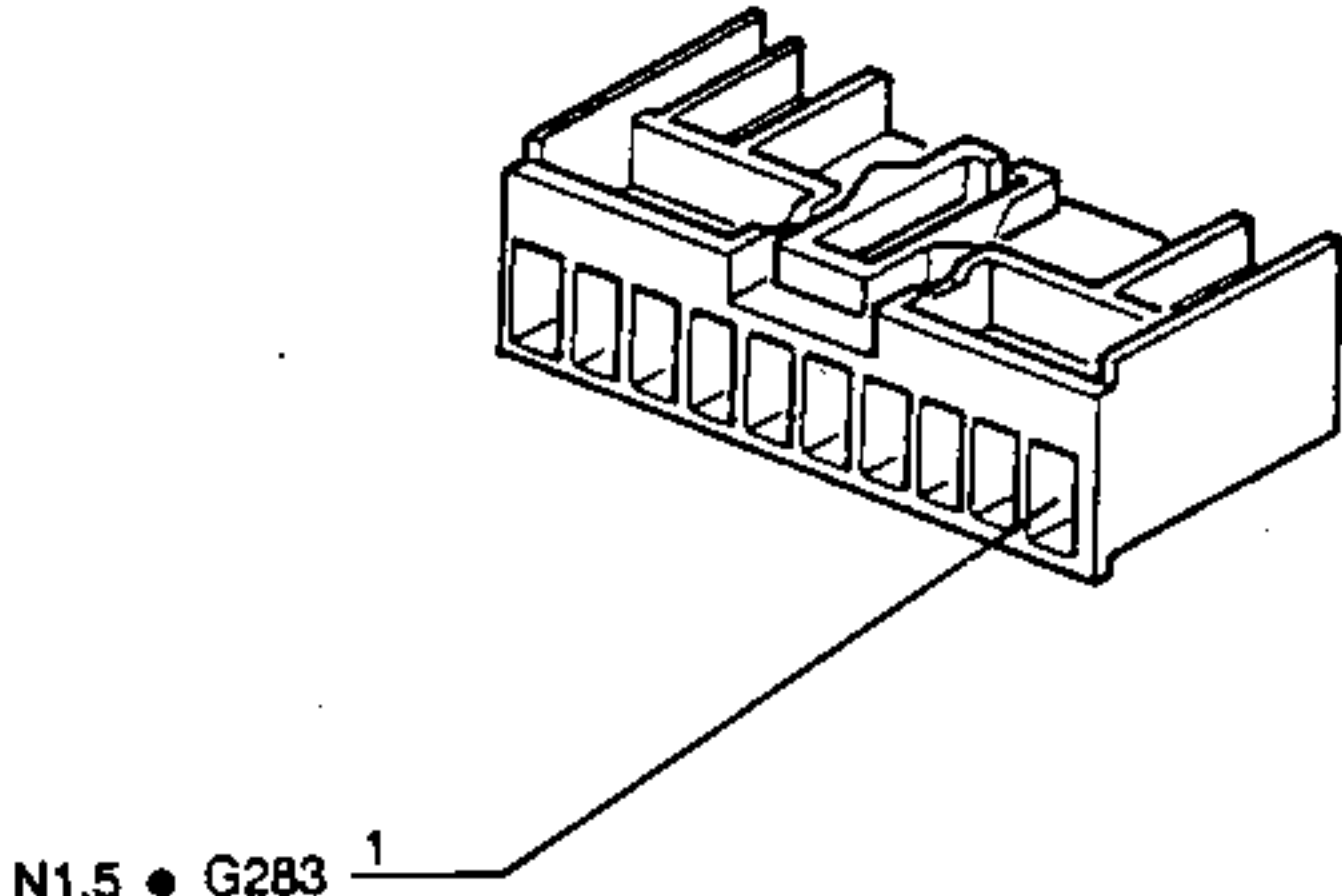
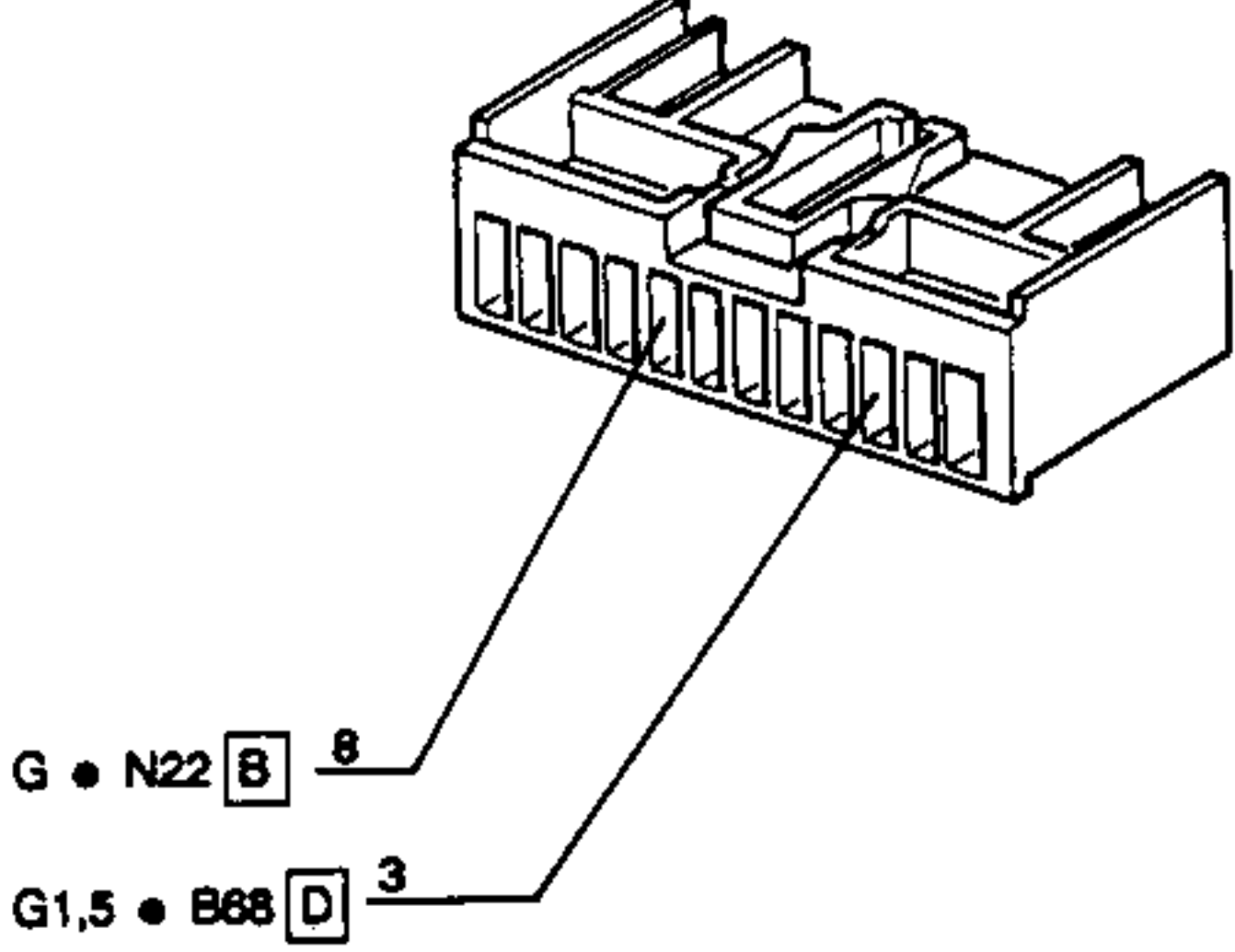


# ELECTRICAL SYSTEM

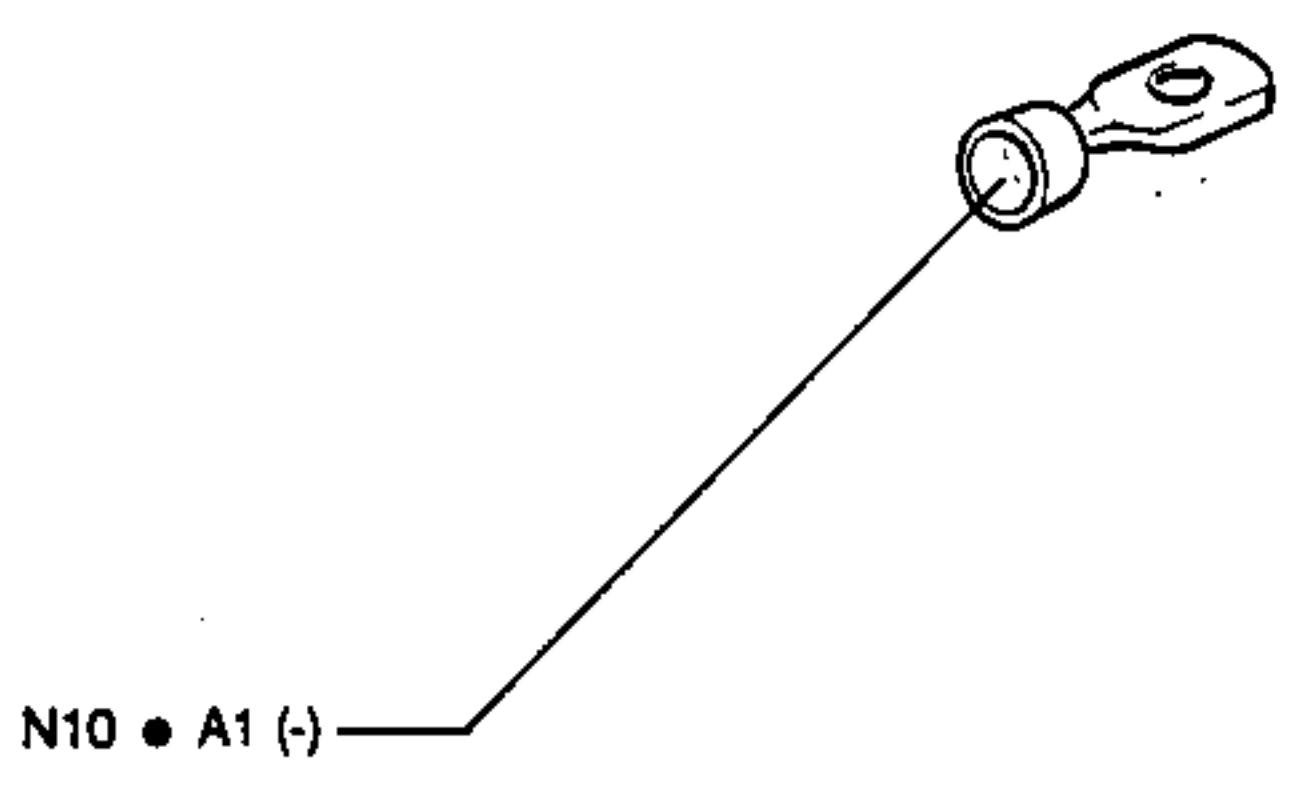
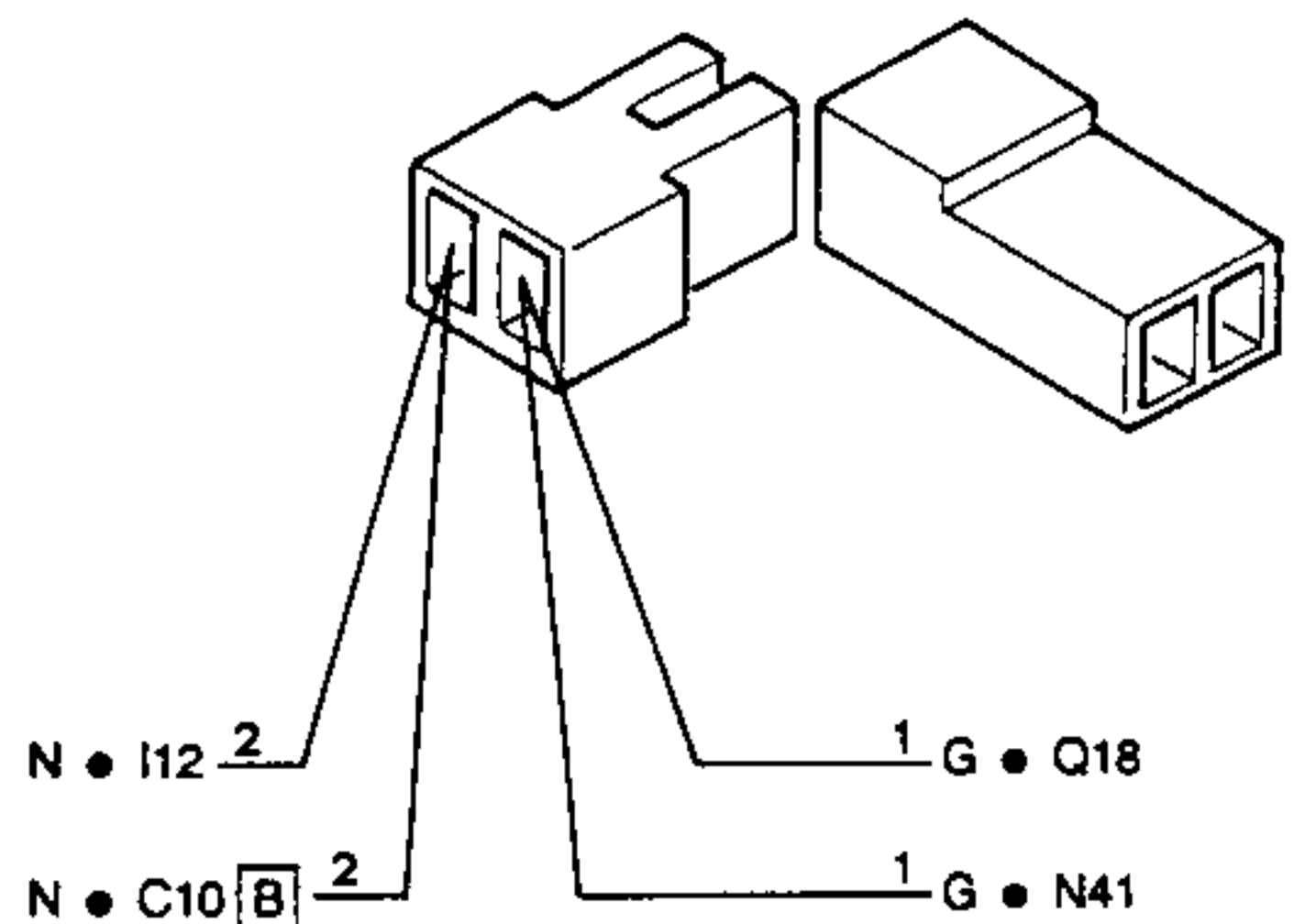
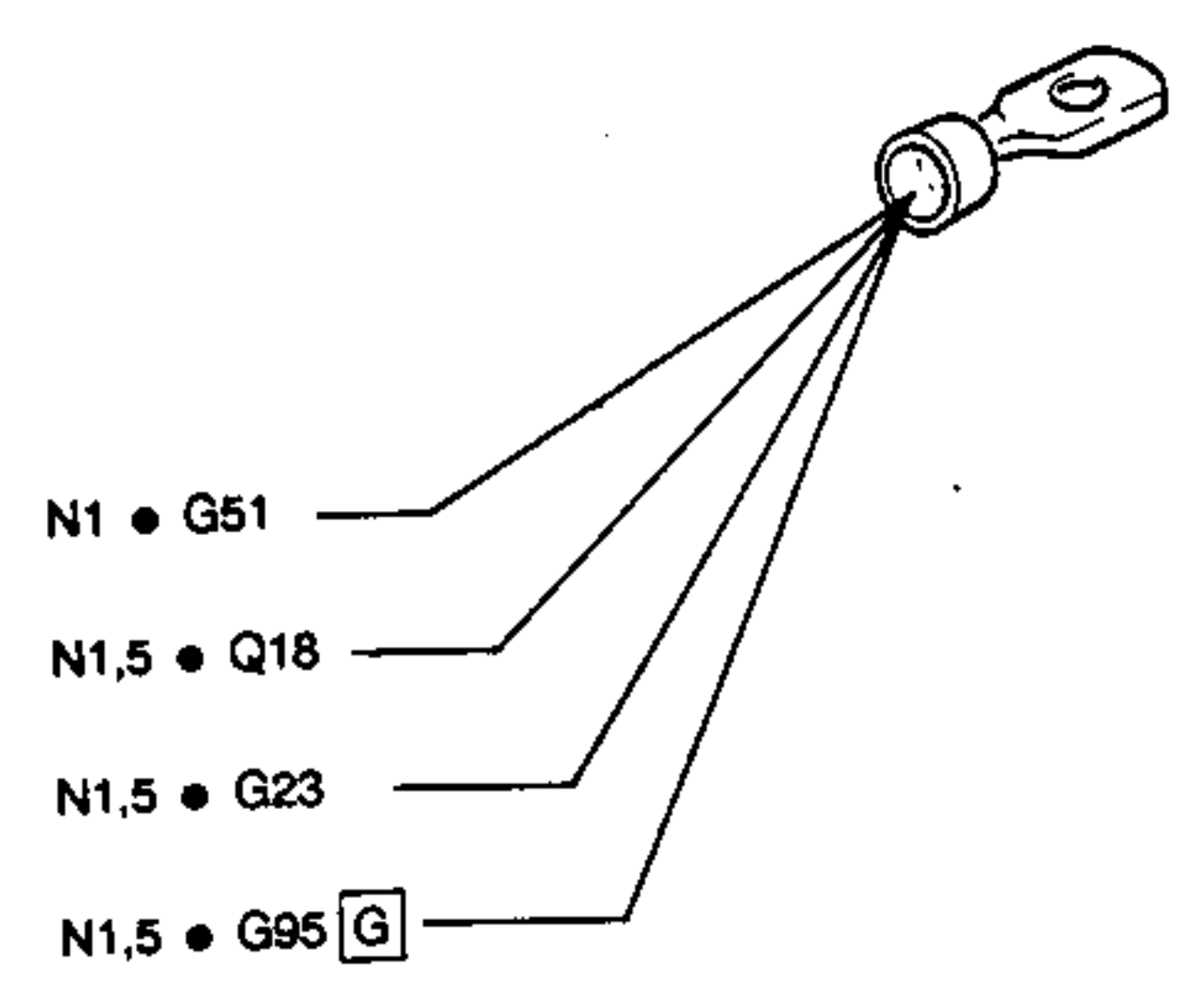
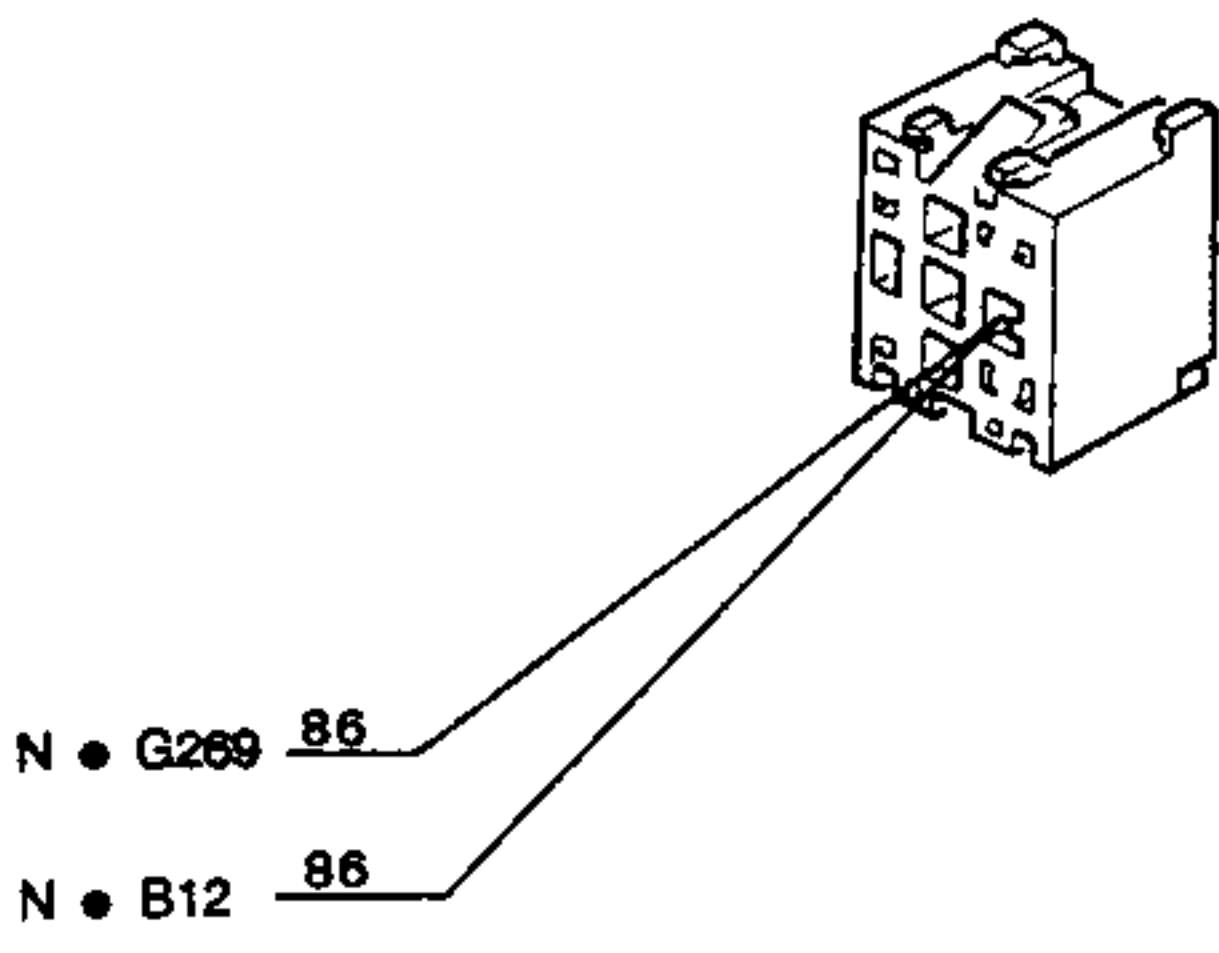
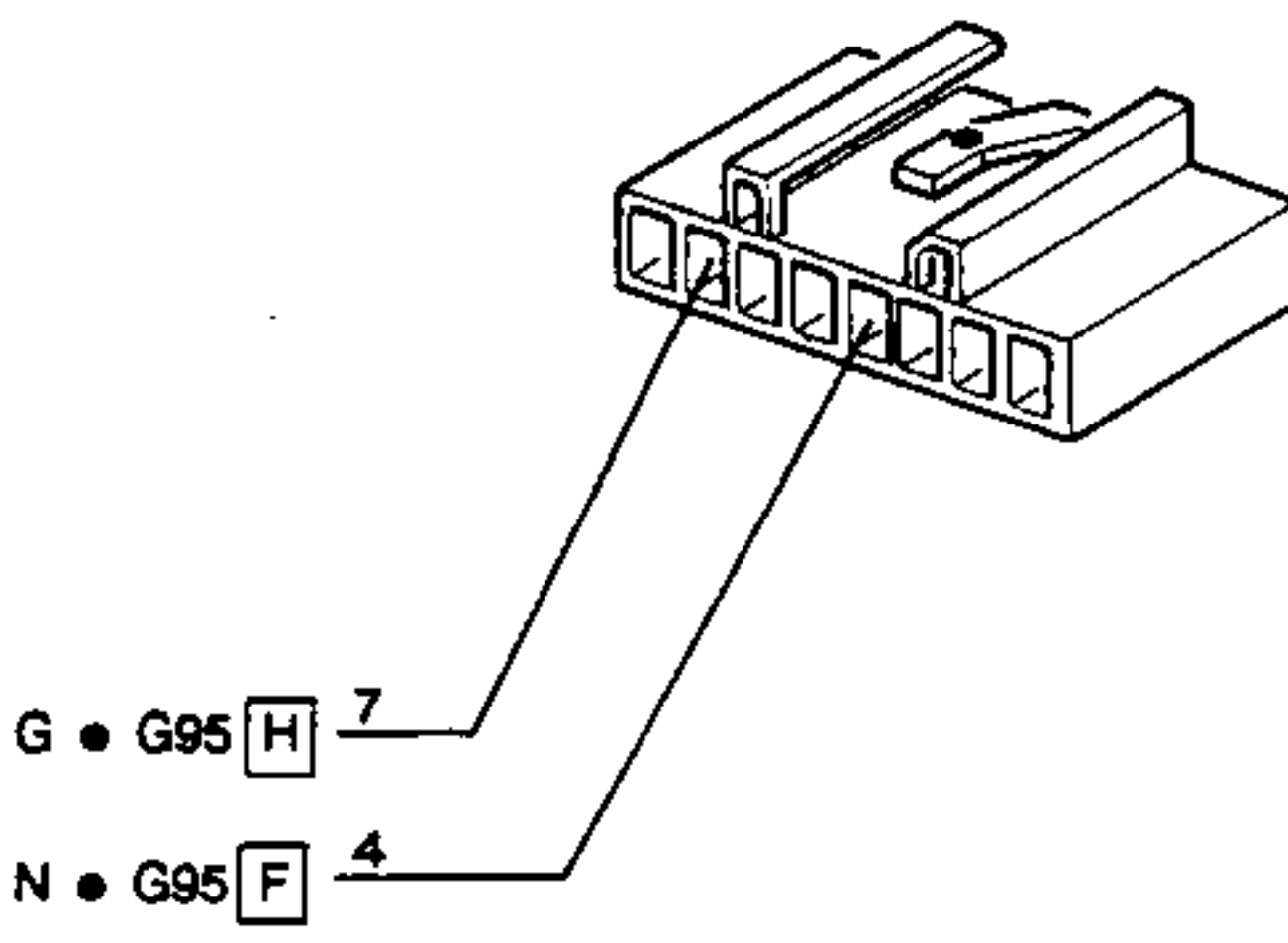
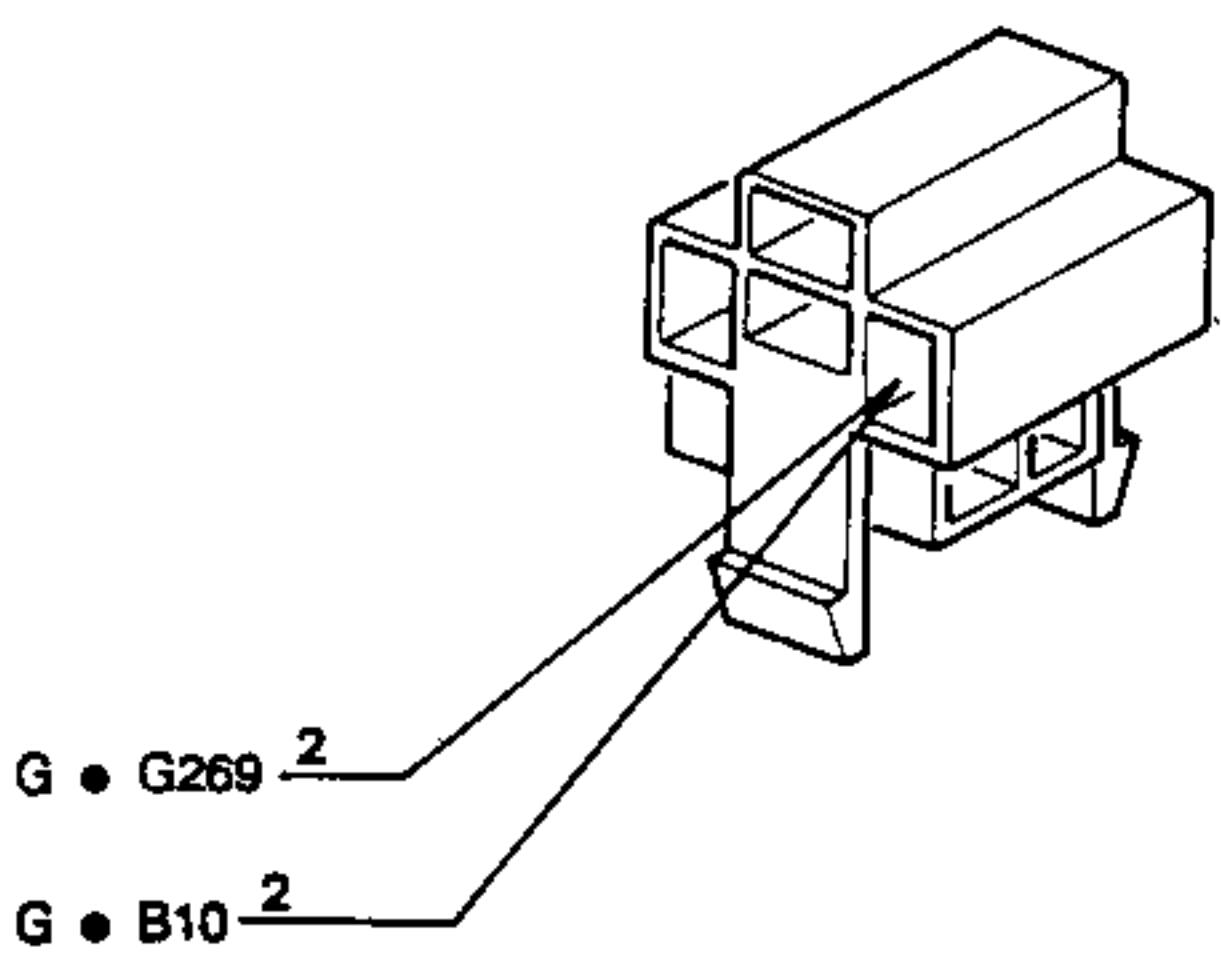
Clock <b>C7</b>	Instrument panel <b>C10 B</b>
<p>N • F1 1 G • G95 E 3</p> <p style="text-align: right;">33.90.061</p>	<p>G • G95 D 8 N • G269 5 B0,35 • G270b (*) 5</p> <p style="text-align: right;">33.90.024</p>
Passenger compartment front roof panel <b>F1</b>	Ashtray light <b>F10</b>
<p>N • C7 N • G95 E</p> <p style="text-align: right;">33.90.062 - 33.90.021 - 33.90.015</p>	<p>G • O6 N • O6</p> <p style="text-align: right;">33.90.021 - 33.90.015</p>
Provision for car radio cables (O4) <b>G51</b>	Branch terminal point <b>G56</b>
<p>N1 • O6 4 N1 • G283 4</p> <p style="text-align: right;">33.90.093</p>	<p>R2,5 • B68 A R2,5 • B1 R10 • A1 (+)</p> <p style="text-align: right;">33.90.066</p>

(\*) Specific to versions 4 x 4

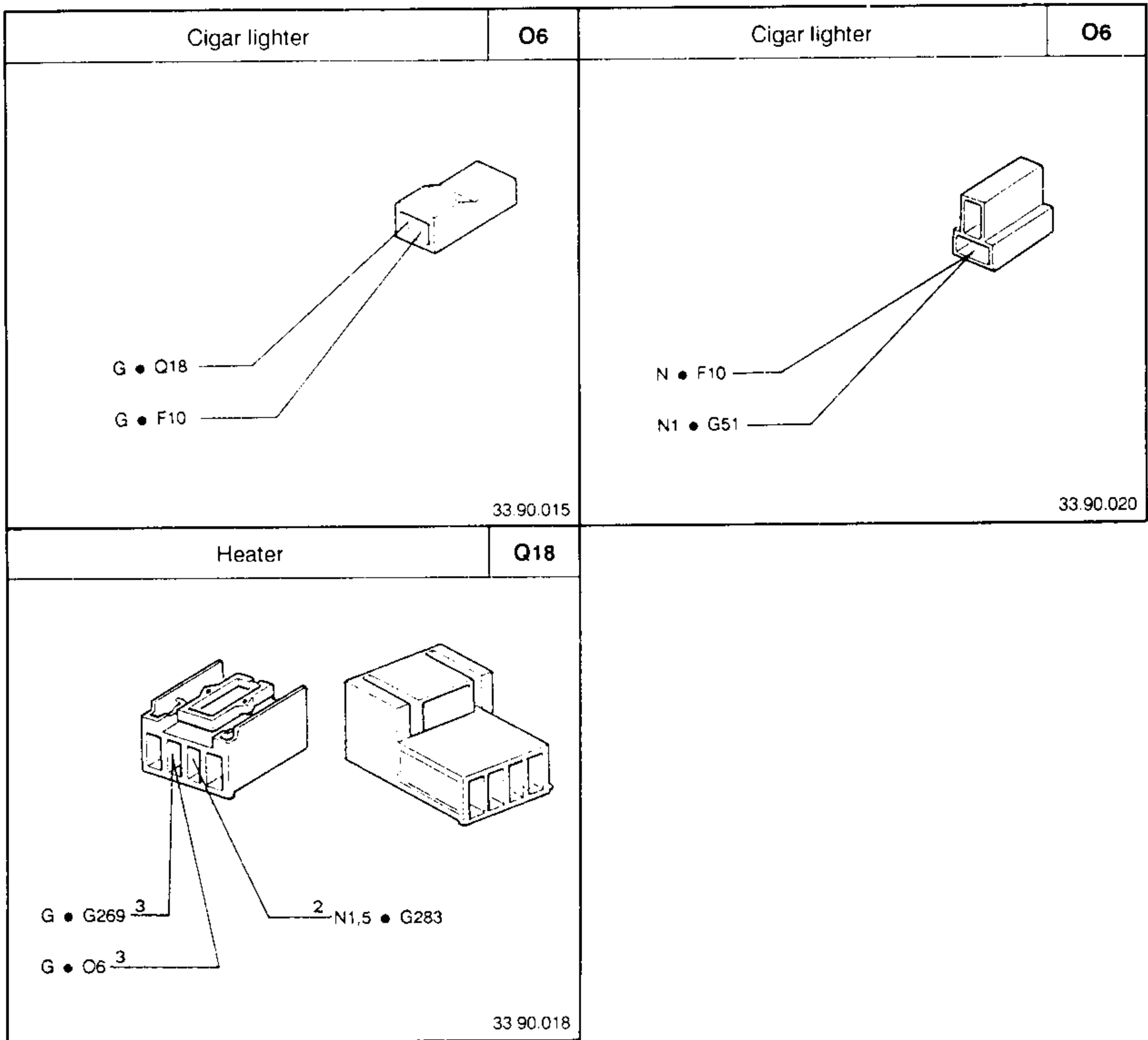
ELECTRICAL SYSTEM

<p>Central fusebox</p>	<p>G95 B</p>	<p>Central fusebox</p>	<p>G95 D</p>
 <p>N • G95 D 4</p>	<p>33.90.005</p>	 <p>G • G95 D 10 G • C10 B 10 5 G • B10 5 G • G95 D 6 N • G95 B</p>	<p>33.90.005</p>
<p>Central fusebox</p>	<p>G95 E</p>	<p>Central fusebox</p>	<p>G95 F</p>
 <p>N • F1 3 N • F2 3 G • C7 2 G • G144 2</p>	<p>33.90.003</p>	 <p>N • B12 10 N • N22 B 10</p>	<p>33.90.005</p>
<p>Central fusebox</p>	<p>G95 G</p>	<p>Central fusebox</p>	<p>G95 H</p>
 <p>N1,5 • G283 1</p>	<p>33.90.005</p>	 <p>G • N22 B 8 G1,5 • B68 D 3</p>	<p>33.90.004</p>

# ELECTRICAL SYSTEM

<p style="text-align: center;">Central service compartment earth</p> <p style="text-align: right;"><b>G143</b></p>	<p style="text-align: center;">Glove compartment lamp connection</p> <p style="text-align: right;"><b>G269</b></p>
 <p>N10 ● A1 (-)</p> <p style="text-align: right;">33.90.001</p>	 <p>N ● I12 [2]      1 G ● Q18</p> <p>N ● C10 [B] [2]      1 G ● N41</p> <p style="text-align: right;">33.90.013</p>
<p style="text-align: center;">Earth on left service compartment</p> <p style="text-align: right;"><b>G283</b></p>	<p style="text-align: center;">Front power window relay</p> <p style="text-align: right;"><b>I12</b></p>
 <p>N1 ● G51</p> <p>N1,5 ● Q18</p> <p>N1,5 ● G23</p> <p>N1,5 ● G95 [G]</p> <p style="text-align: right;">33.90.001</p>	 <p>N ● G269 86</p> <p>N ● B12 86</p> <p style="text-align: right;">33.90.007</p>
<p style="text-align: center;">ALFA ROMEO Control - control unit</p> <p style="text-align: right;"><b>N22 [B]</b></p>	<p style="text-align: center;">Control unit lights on signal</p> <p style="text-align: right;"><b>N41</b></p>
 <p>G ● G95 [H] 7</p> <p>N ● G95 [F] 4</p> <p style="text-align: right;">33.90.024</p>	 <p>G ● G269 2</p> <p>G ● B10 2</p> <p style="text-align: right;">33.90.022</p>

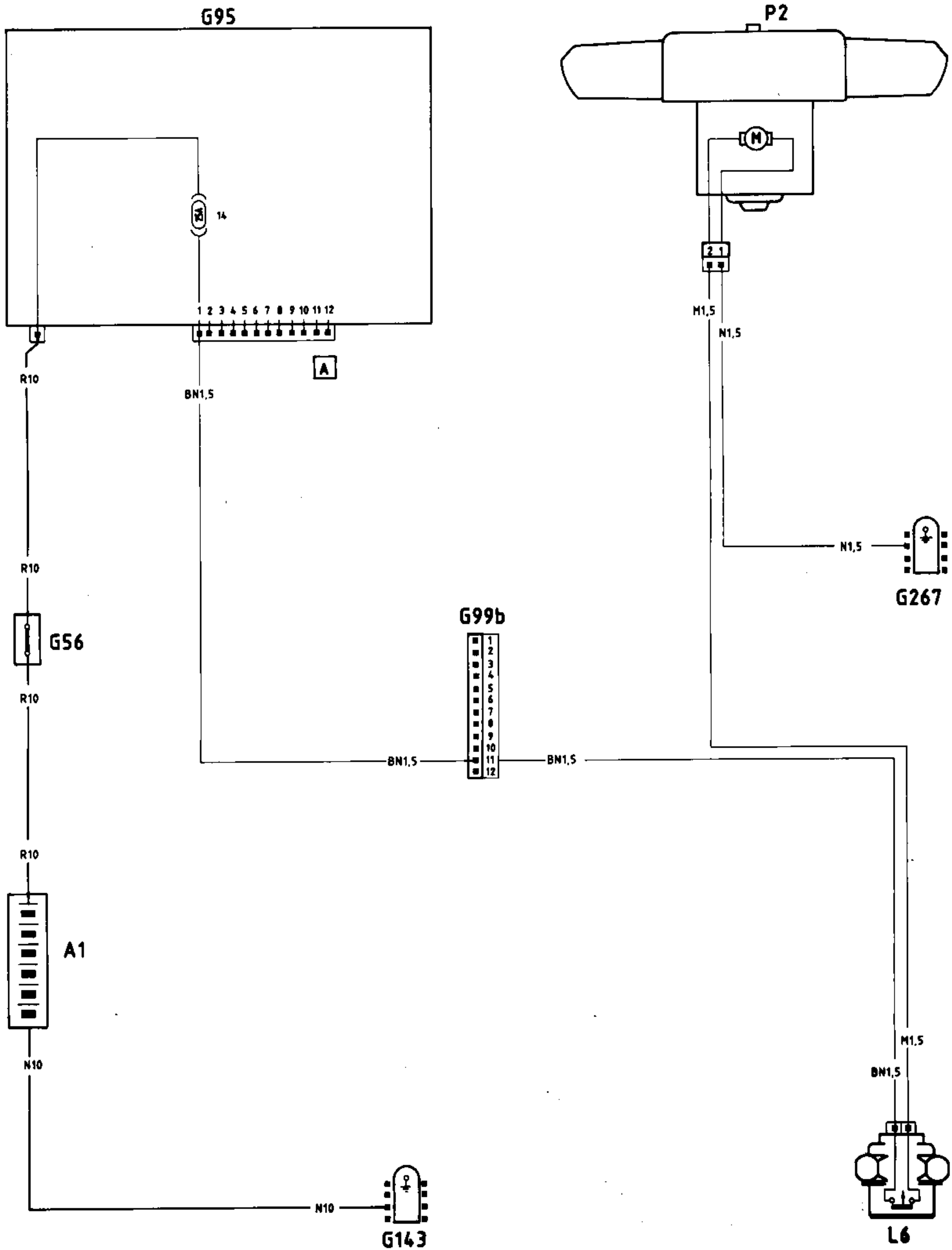
ELECTRICAL SYSTEM



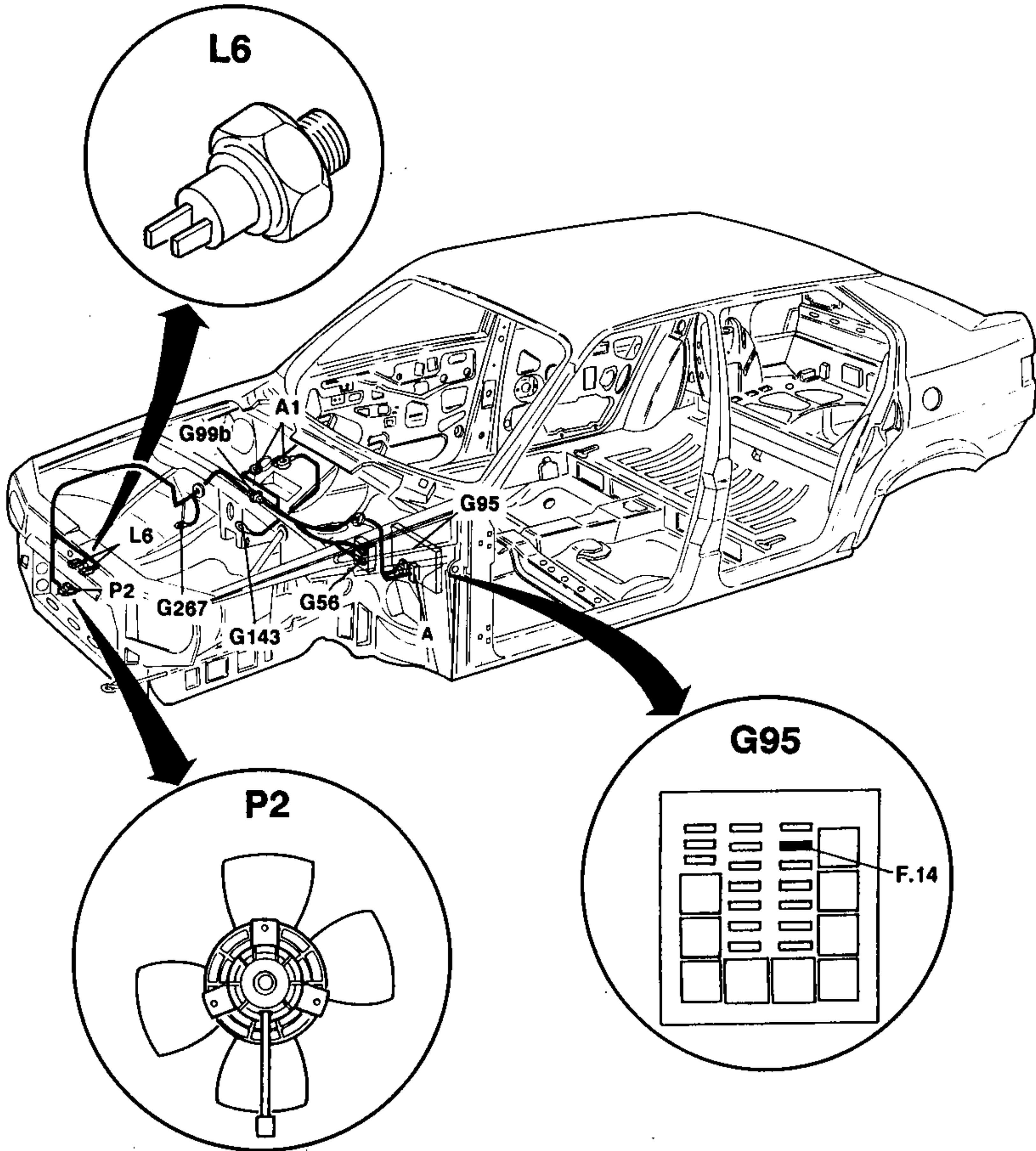
# SENSORS AND SENDERS

## ENGINE COOLING

### Wiring diagram

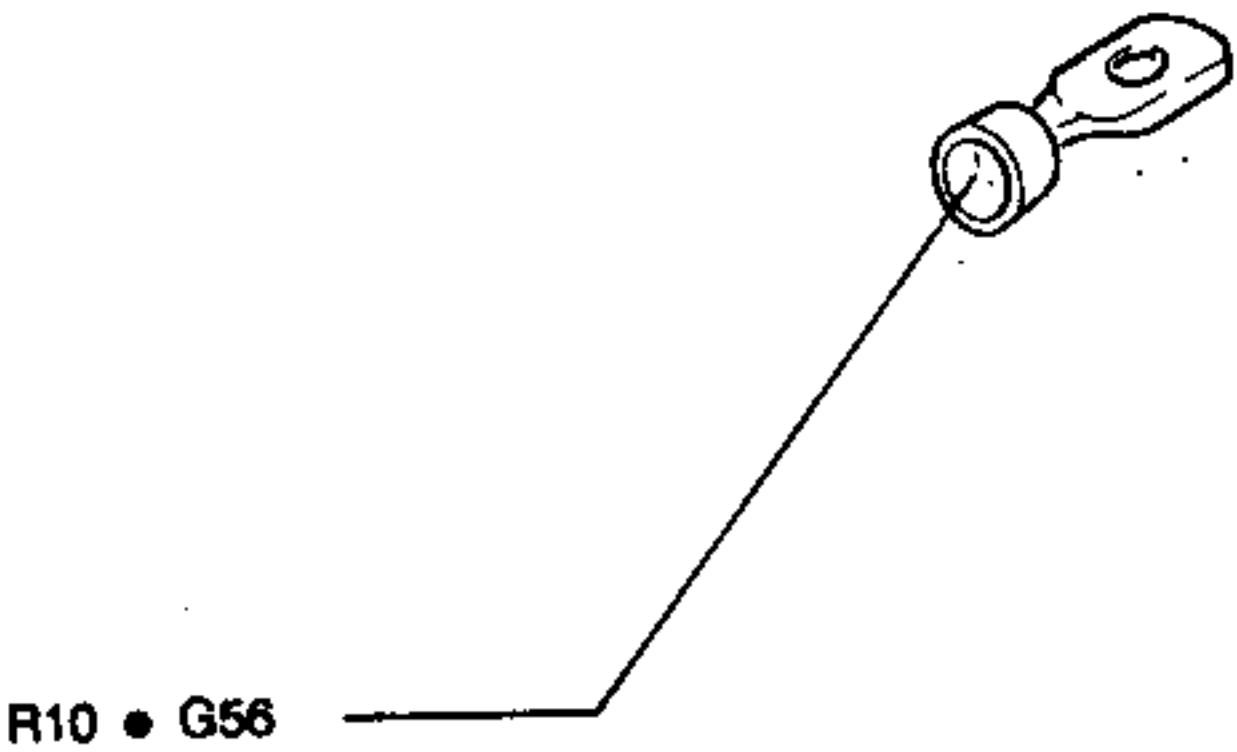
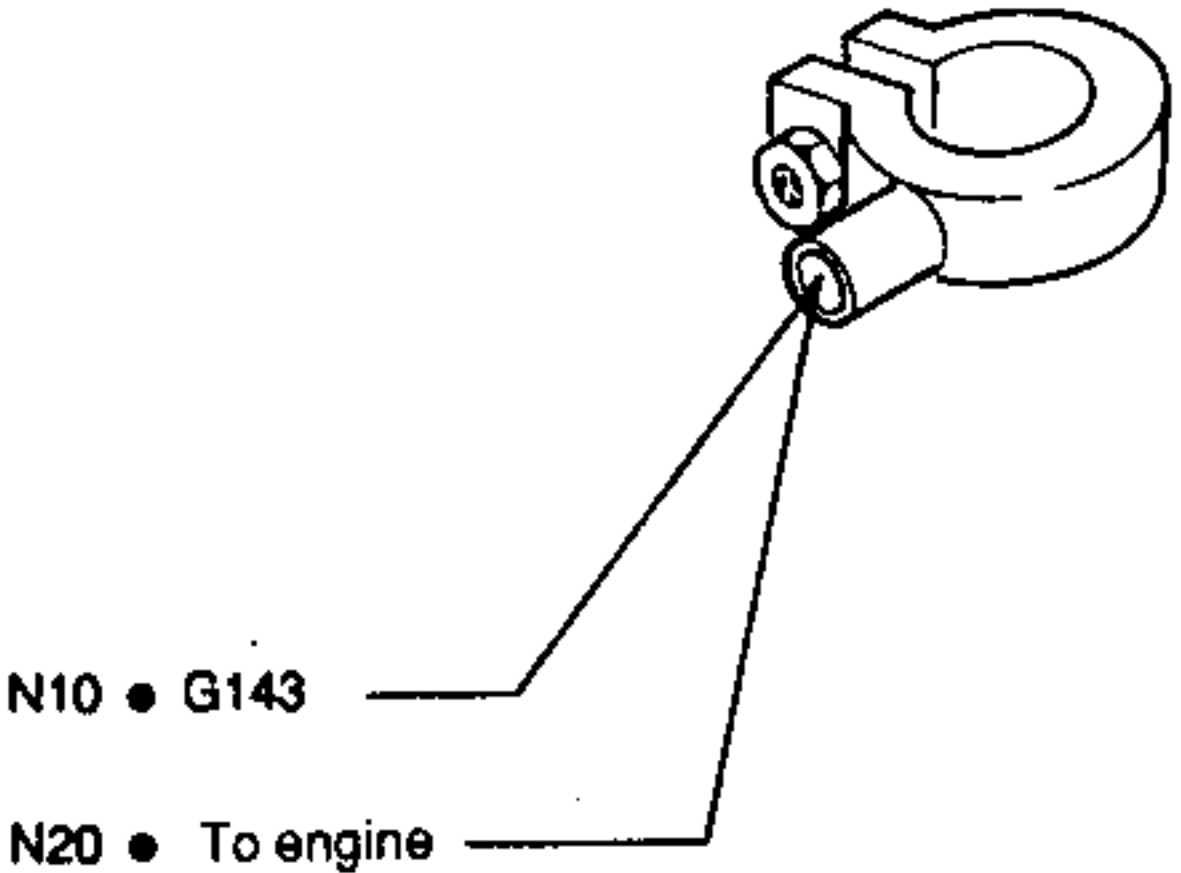
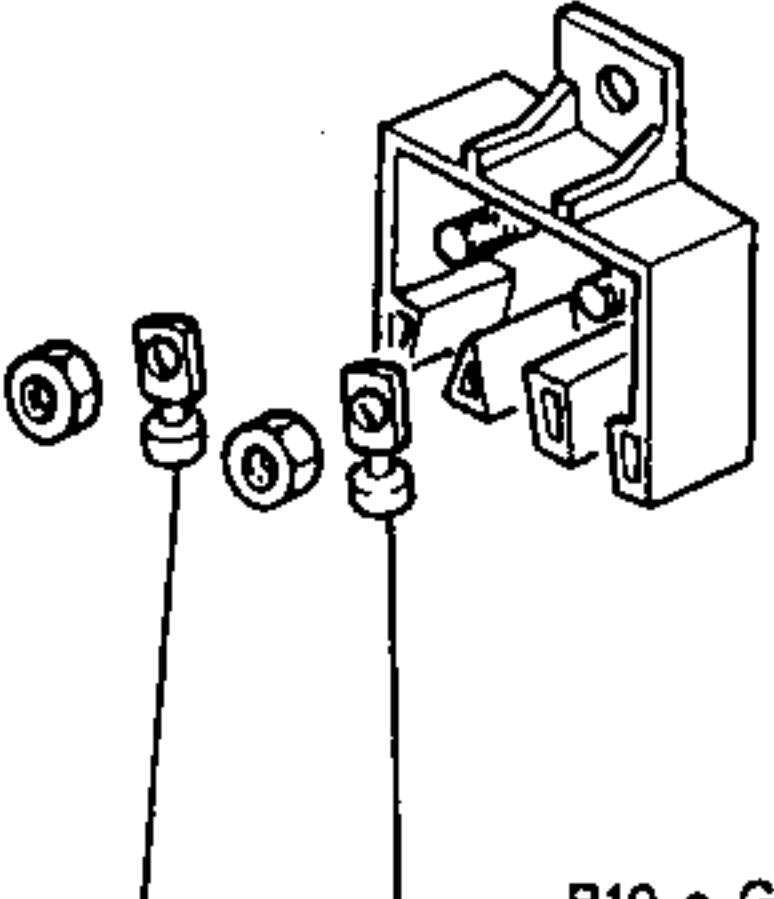
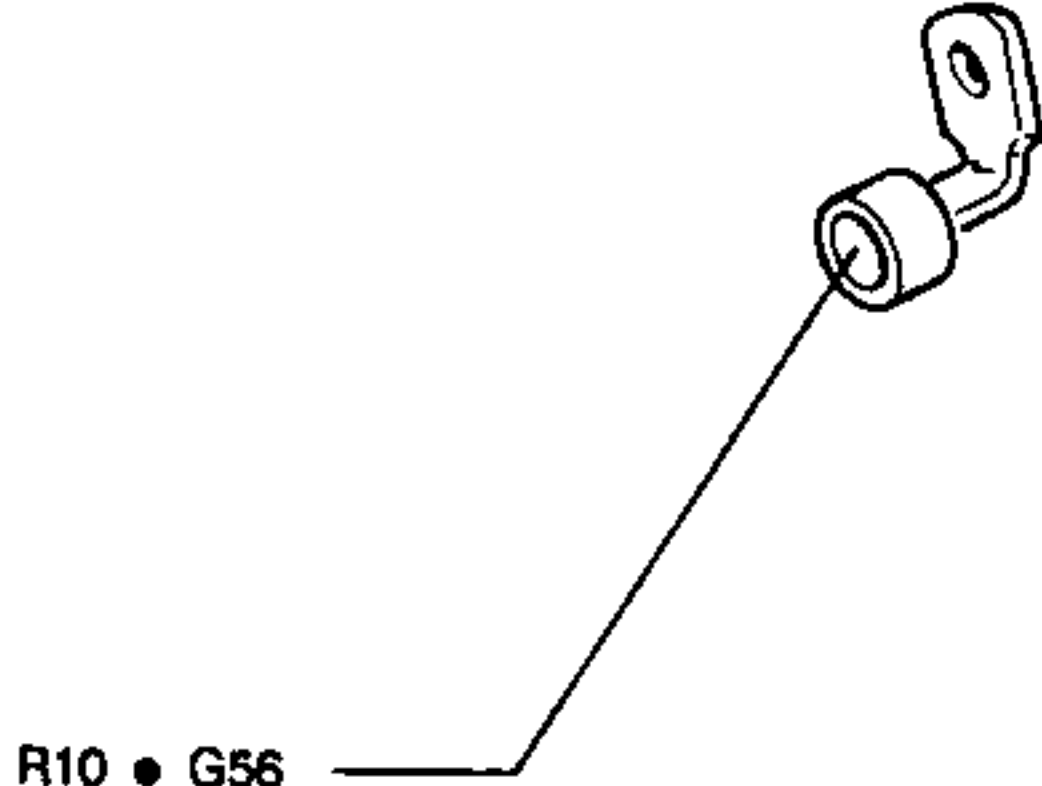
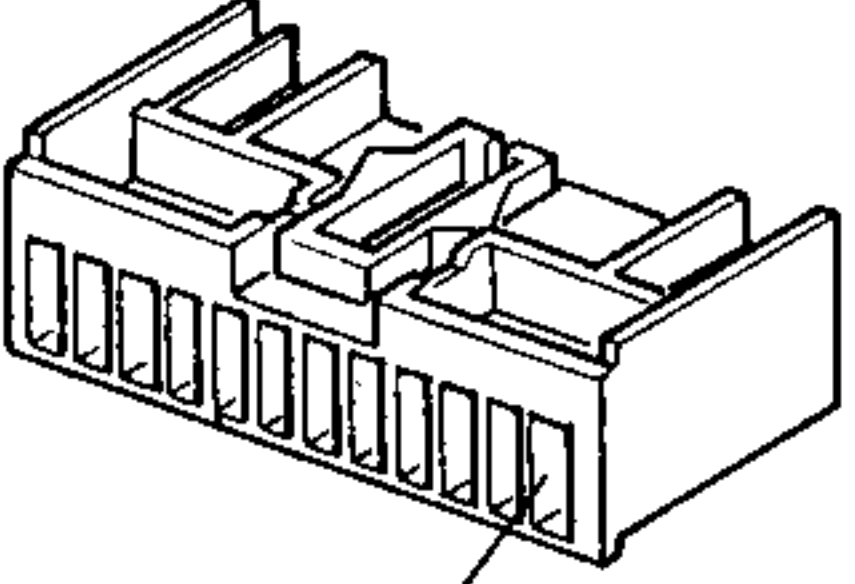
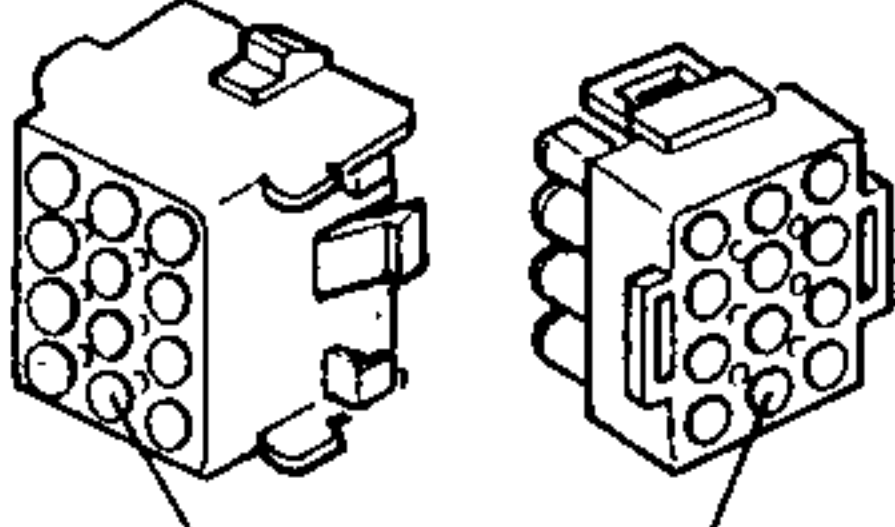


Wiring

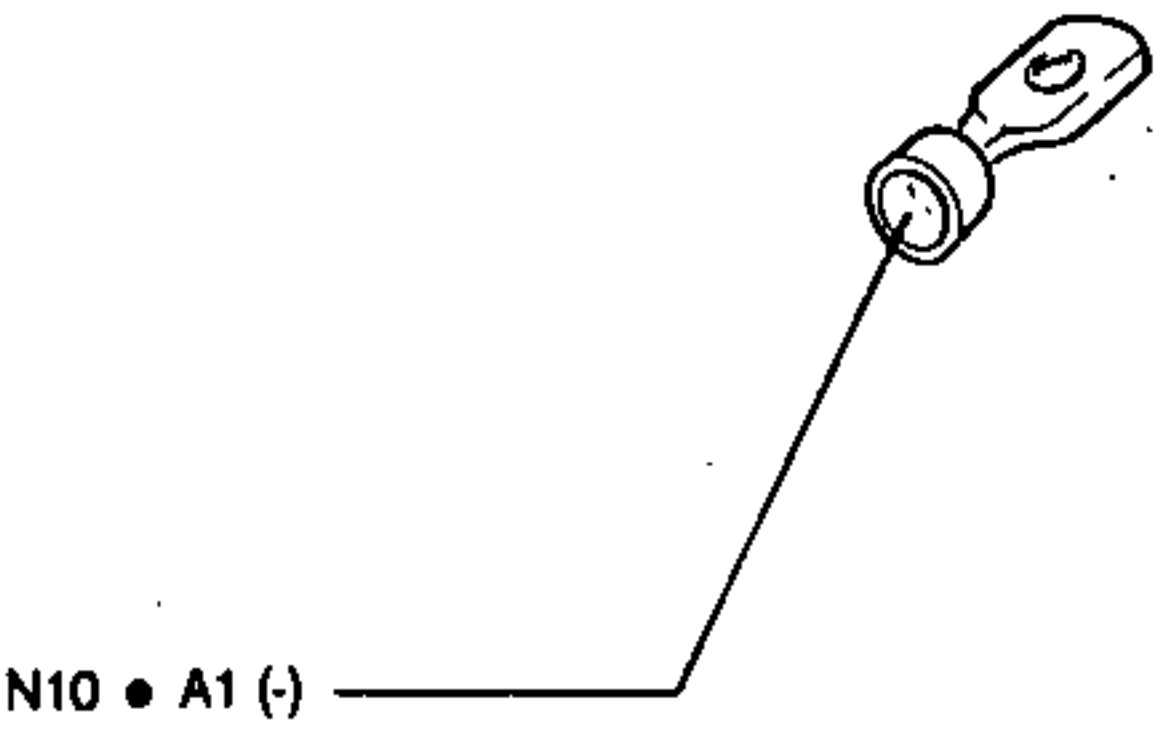
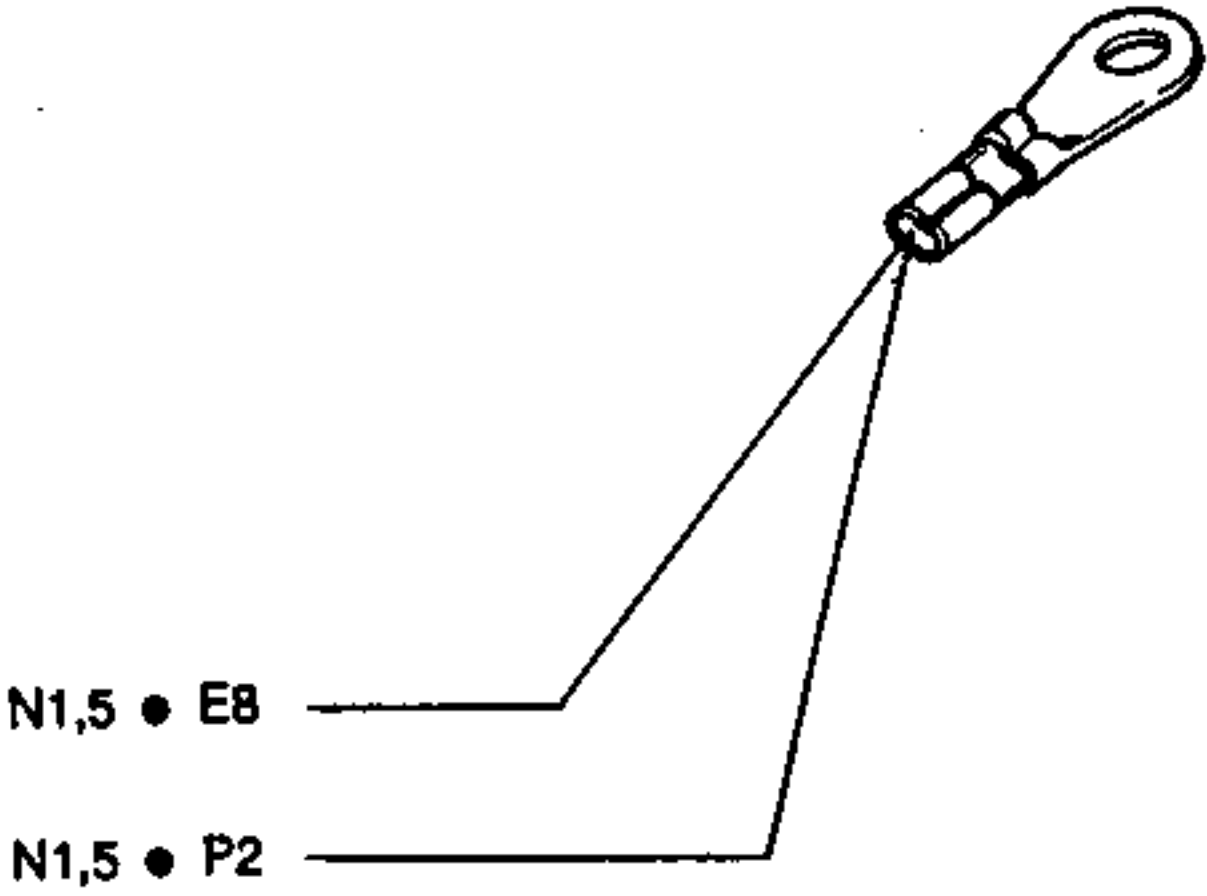
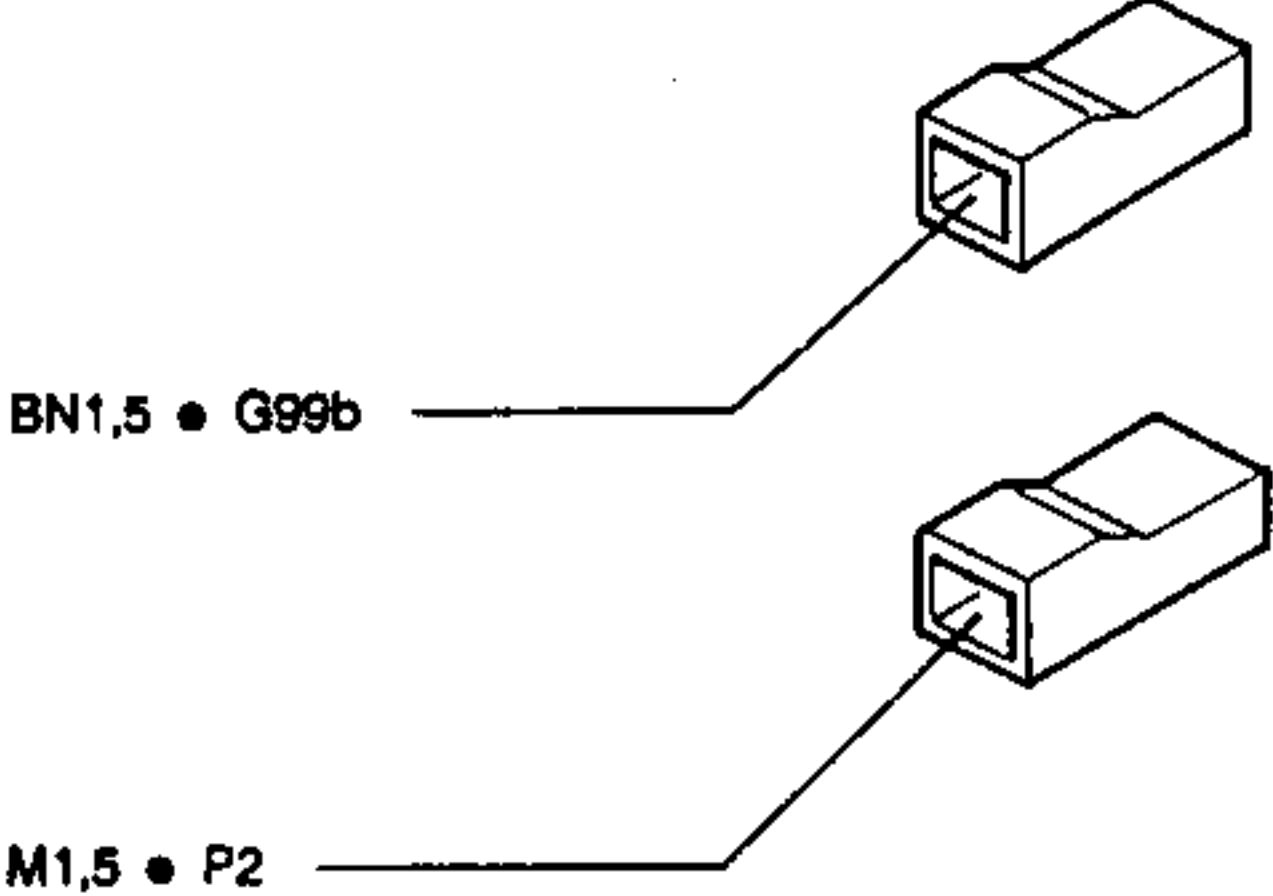
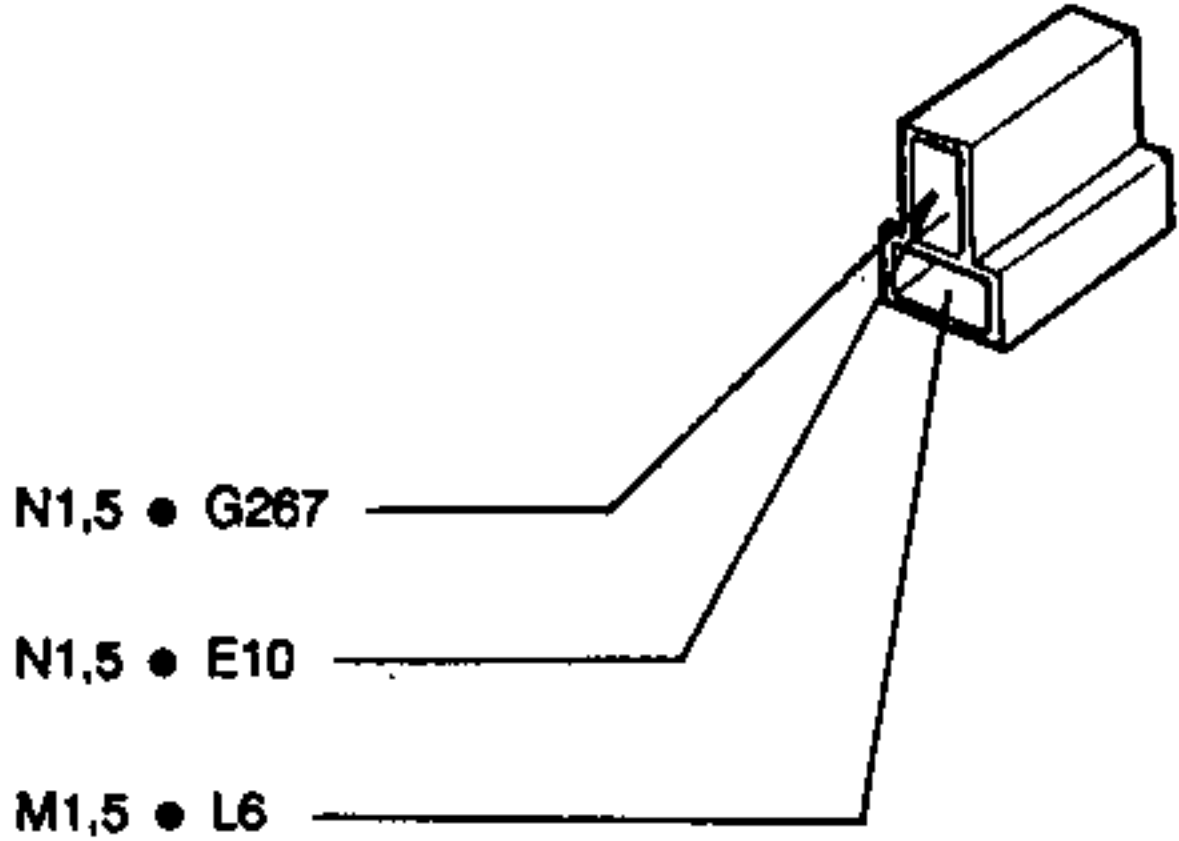


ELECTRICAL SYSTEM

Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p style="text-align: right;">33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p style="text-align: right;">33.90.002</p>	
<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox</p>	<p>G95</p>
 <p>R10 • A1 (+)</p> <p>R10 • G95 (+)</p> <p style="text-align: right;">33.90.009</p>		 <p>R10 • G56</p> <p style="text-align: right;">33.90.006</p>	
<p>Central fusebox</p>	<p>G95 A</p>	<p>Connector for engine dashboard B</p>	<p>G99b</p>
 <p>BN1,5 • G99b</p> <p style="text-align: right;">33.90.004</p>		 <p>BN1,5 • G95 A</p> <p>BN1,5 • L6</p> <p style="text-align: right;">33.90.016</p>	

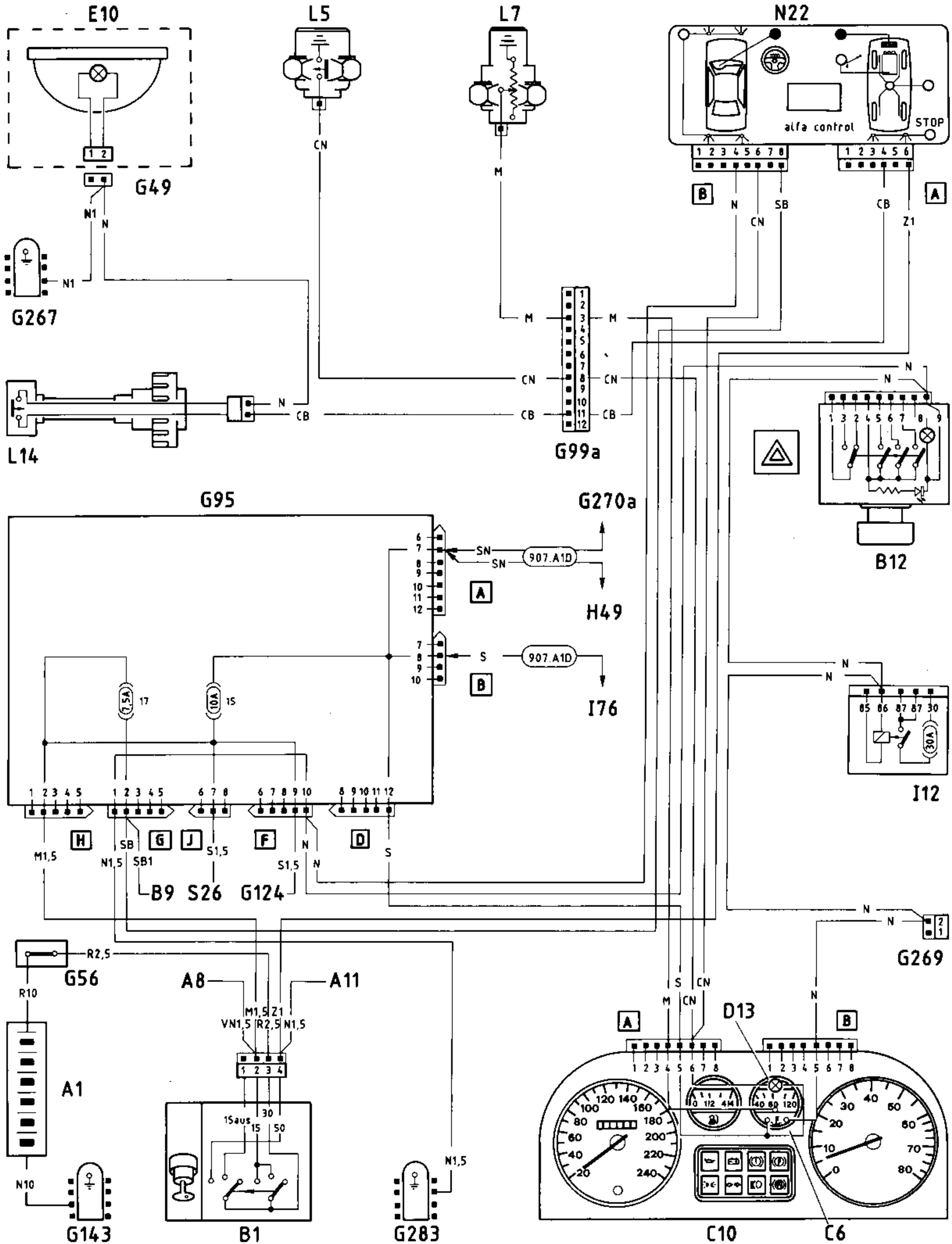
# ELECTRICAL SYSTEM

Central service compartment earth	G143	Earth on cylinder block (from right cylinder block)	G267
 <p>N10 • A1 (-)</p>	33.90.001	 <p>N1,5 • E8 N1,5 • P2</p>	33.90.014
Thermal switch for engine cooling electric fan	L6	Engine cooling fan motor	P2
 <p>BN1,5 • G99b M1,5 • P2</p>	33.90.015	 <p>N1,5 • G267 N1,5 • E10 M1,5 • L6</p>	33.90.020



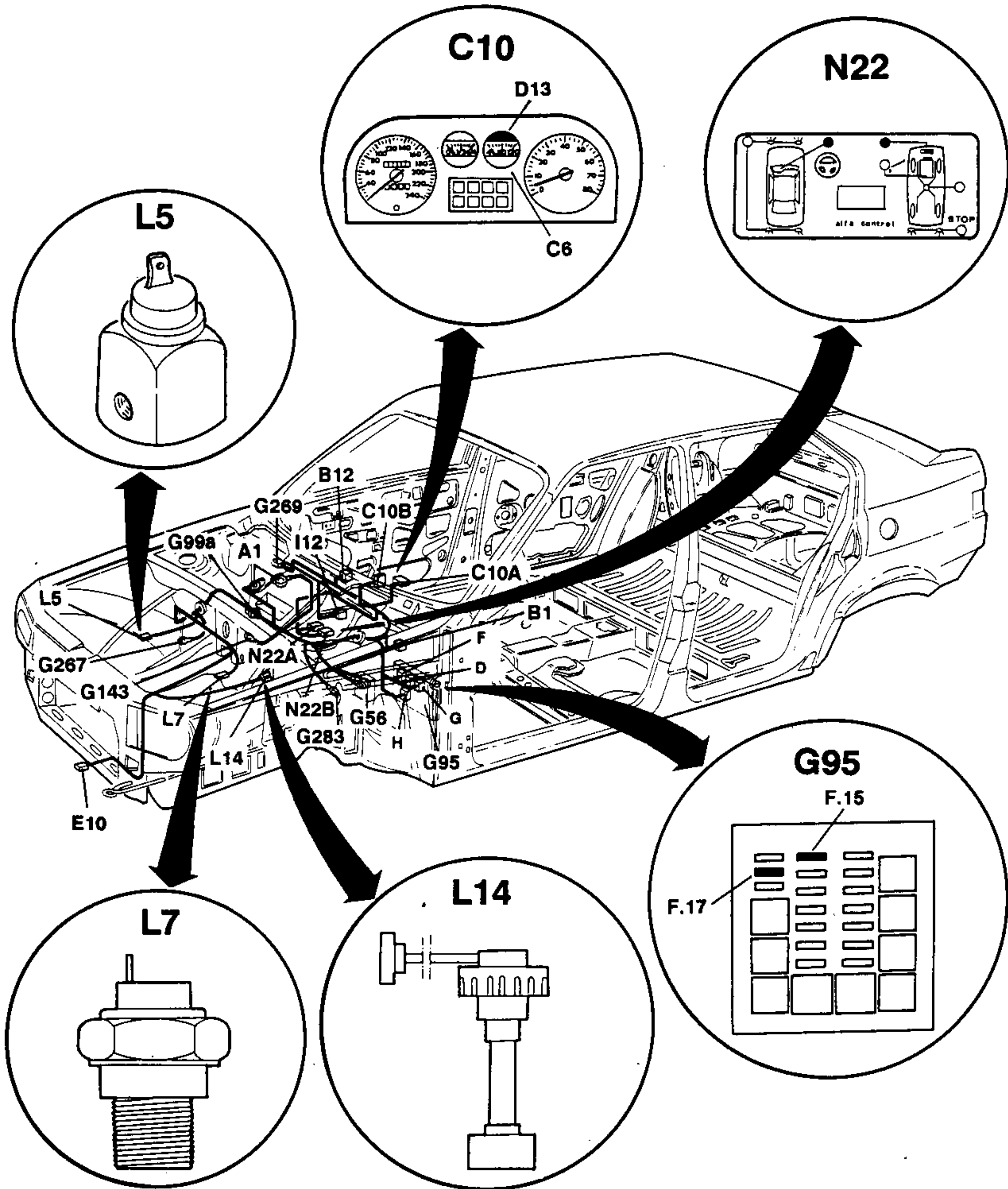
ENGINE COOLANT LEVEL AND TEMPERATURE

Wiring diagram

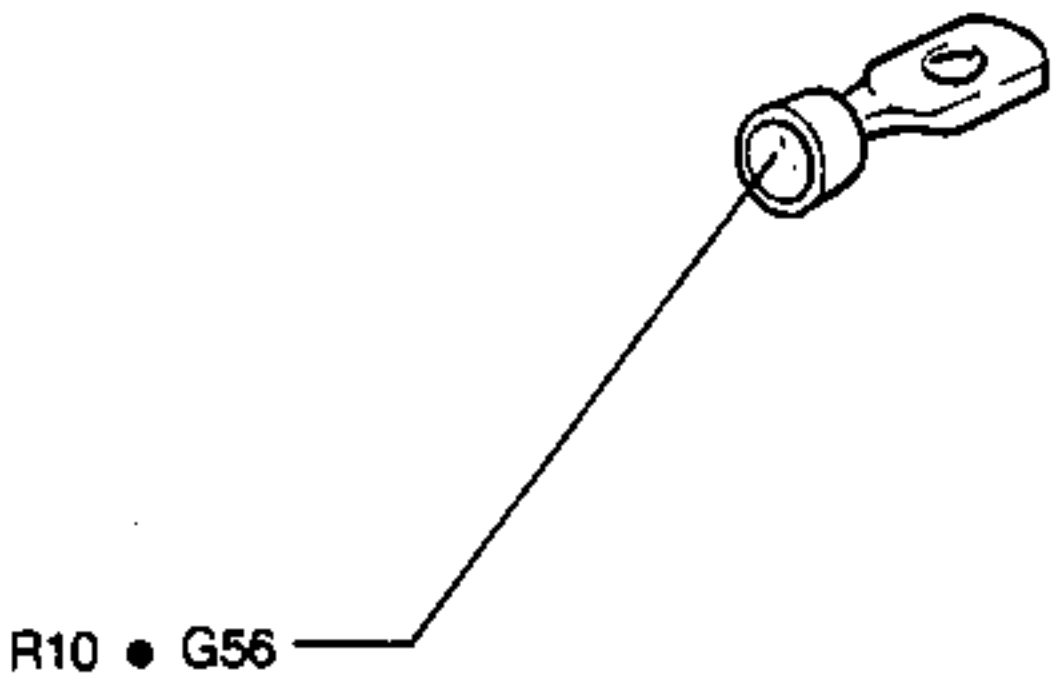
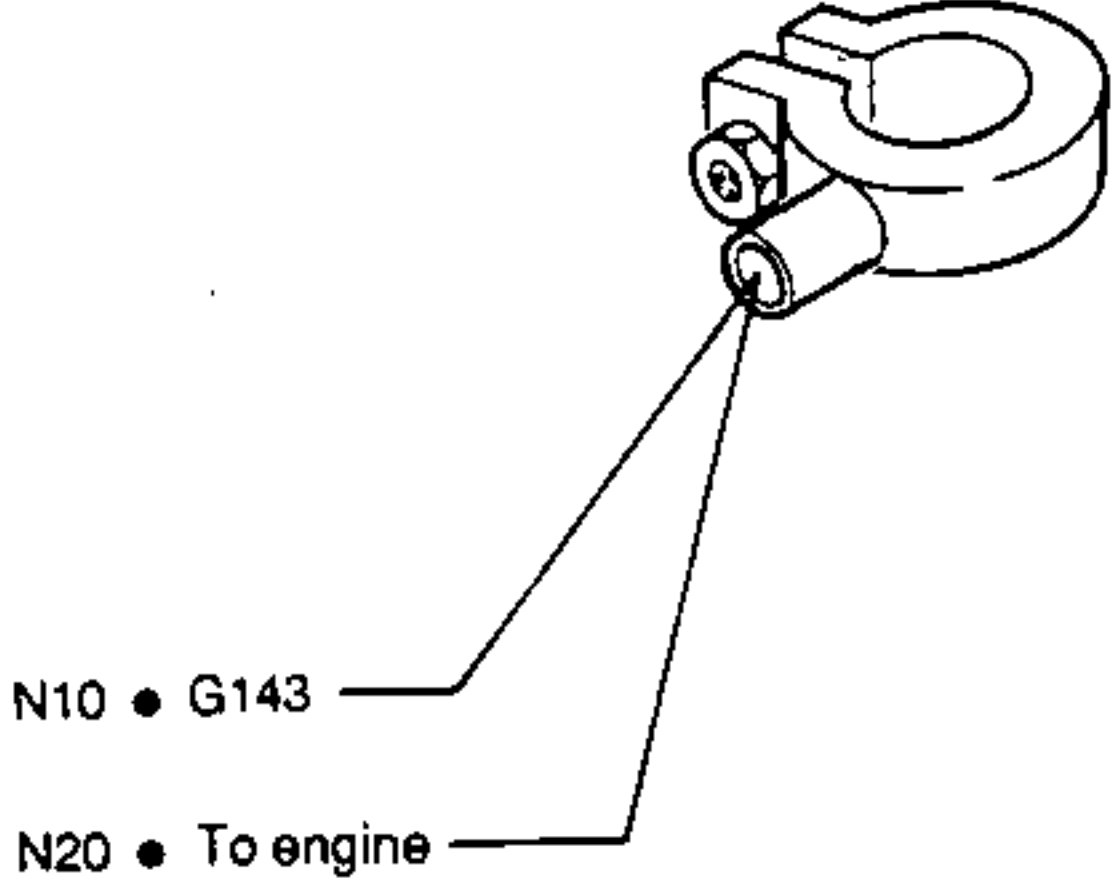
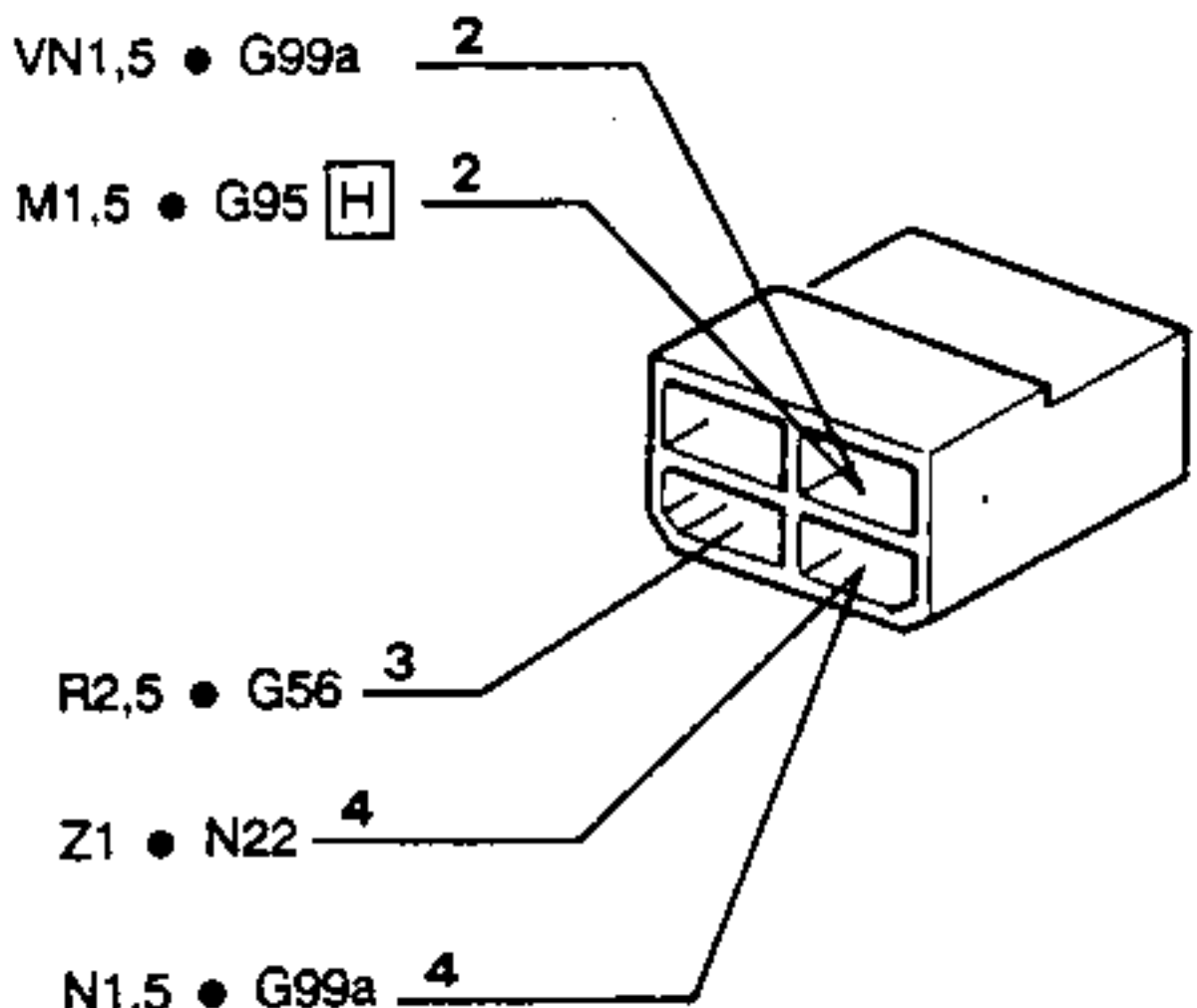
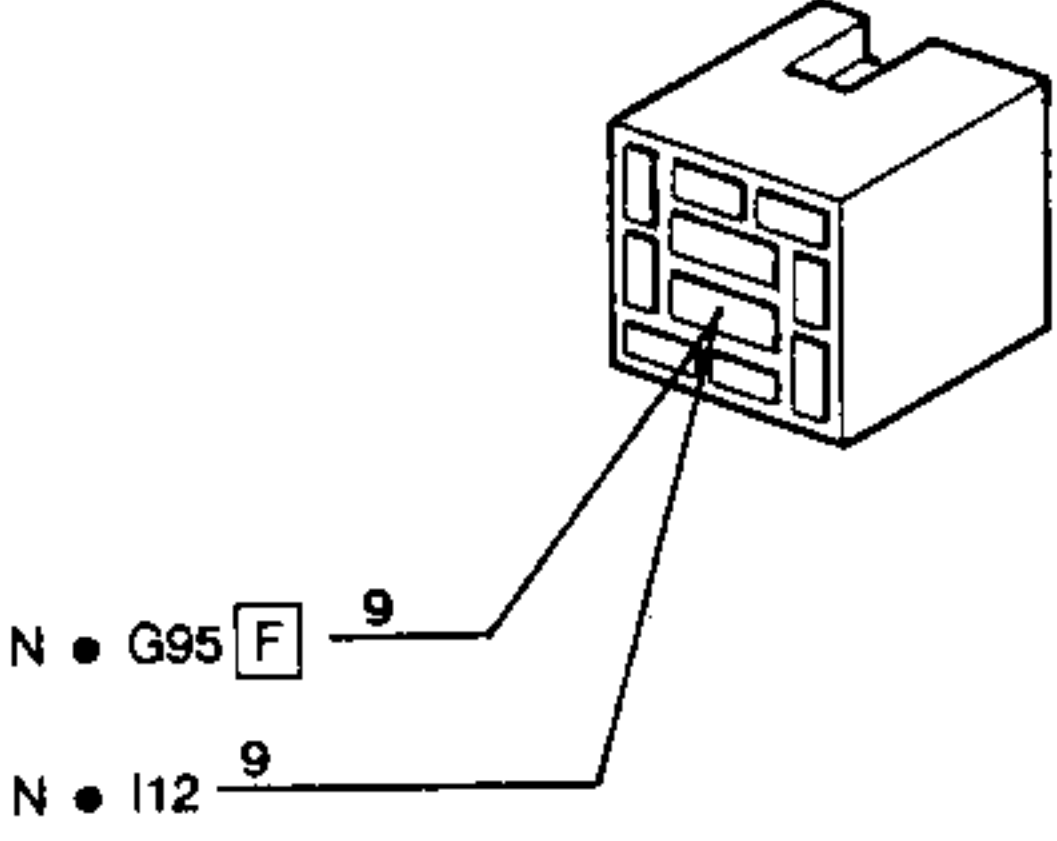
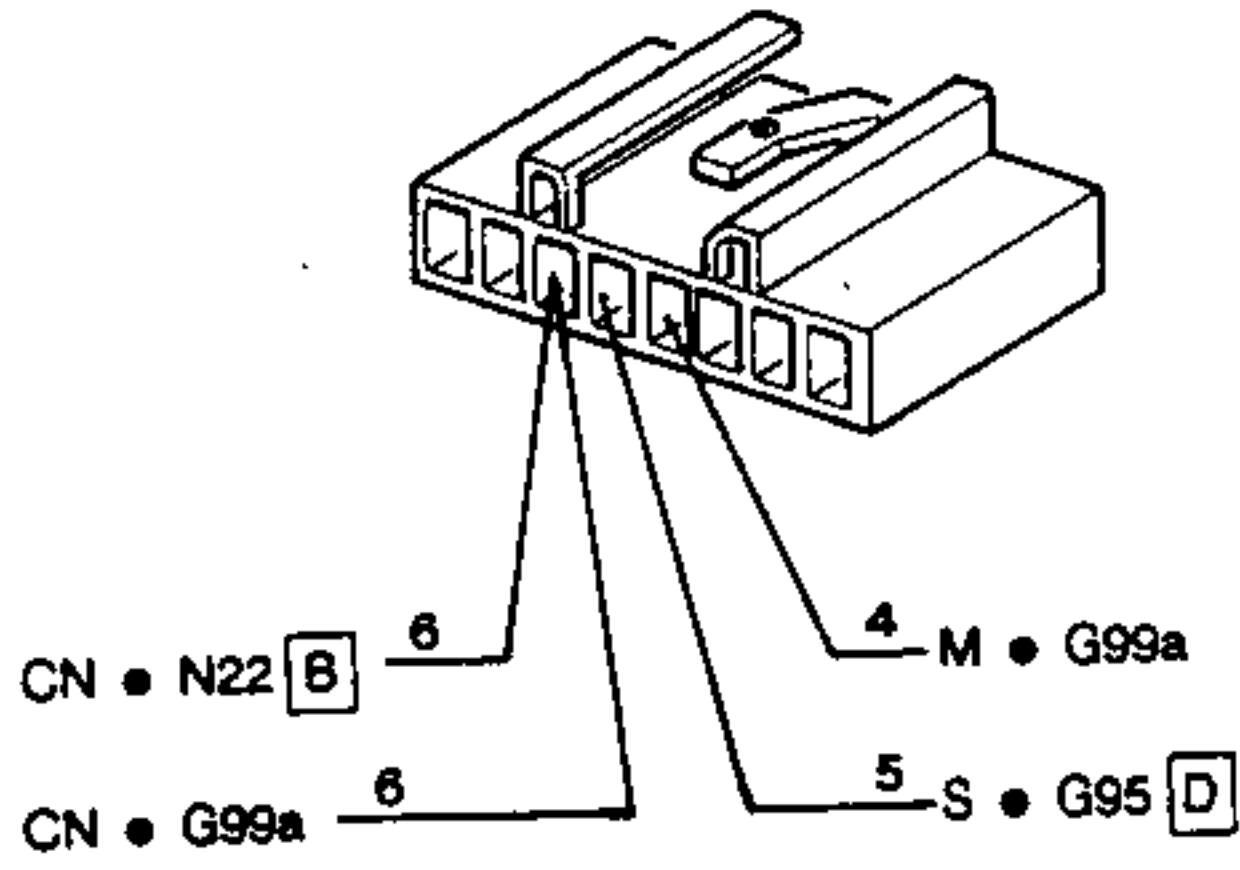
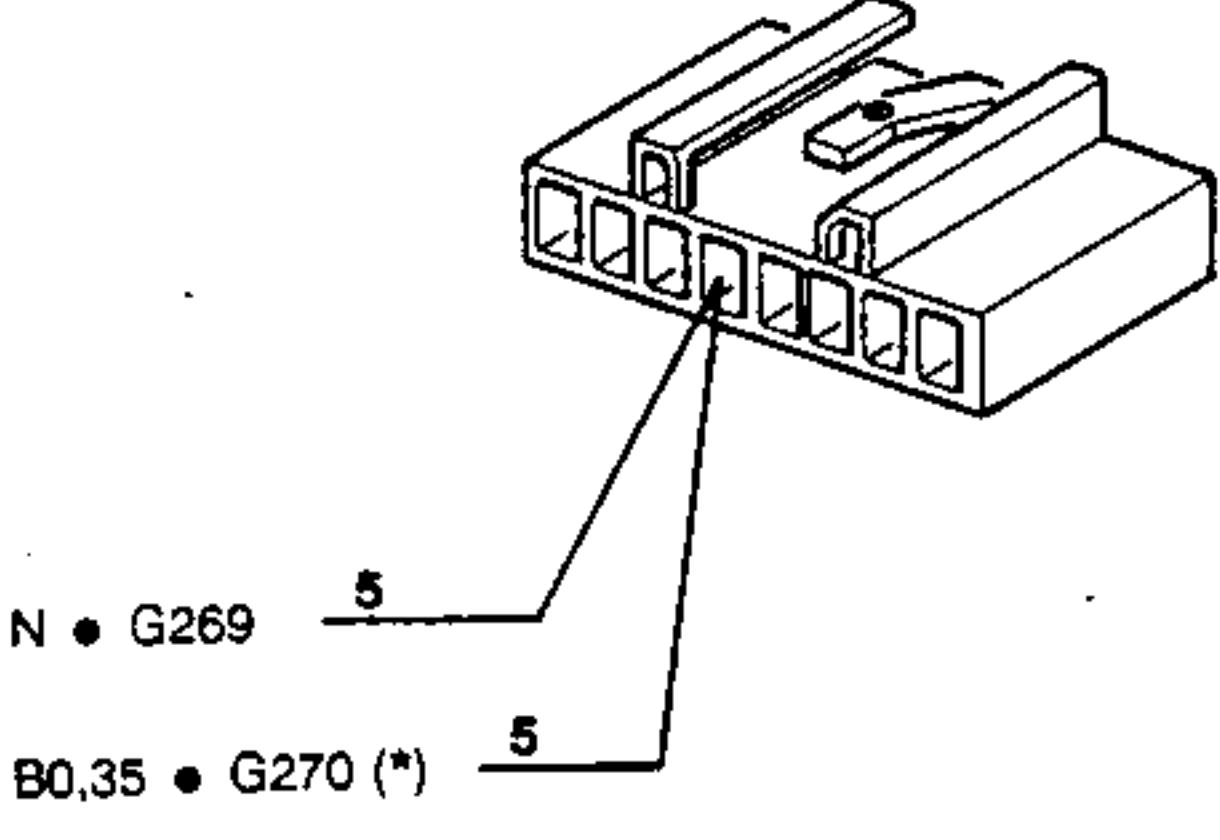


# ELECTRICAL SYSTEM

## Wiring

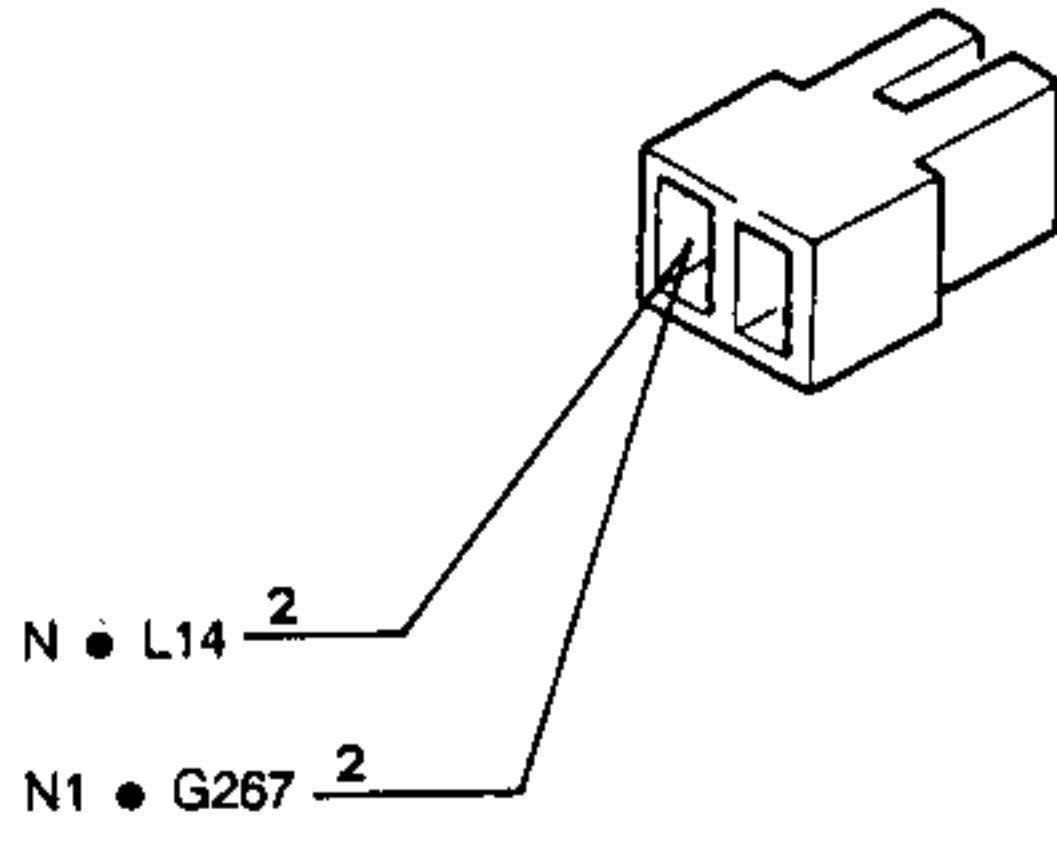
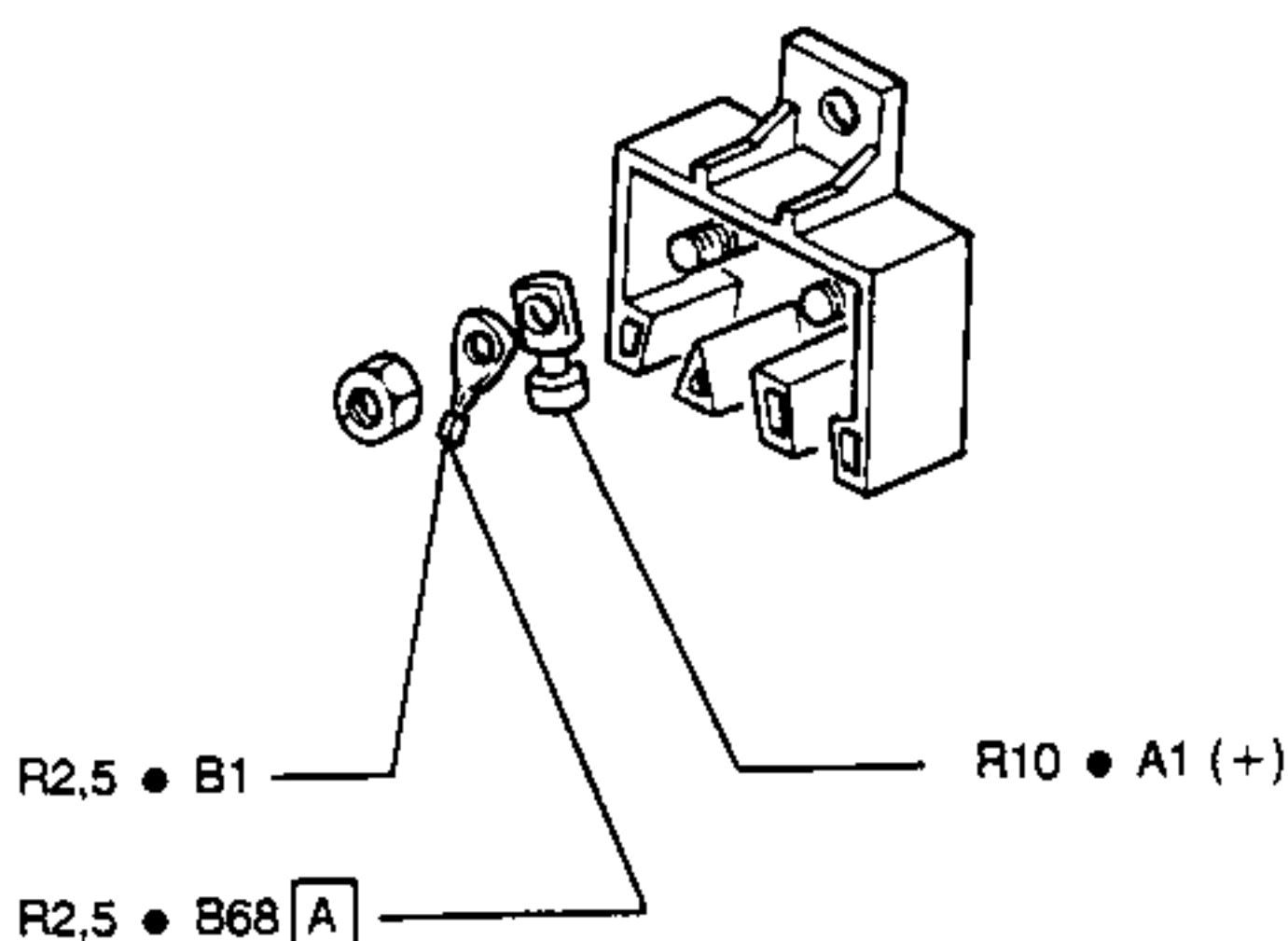
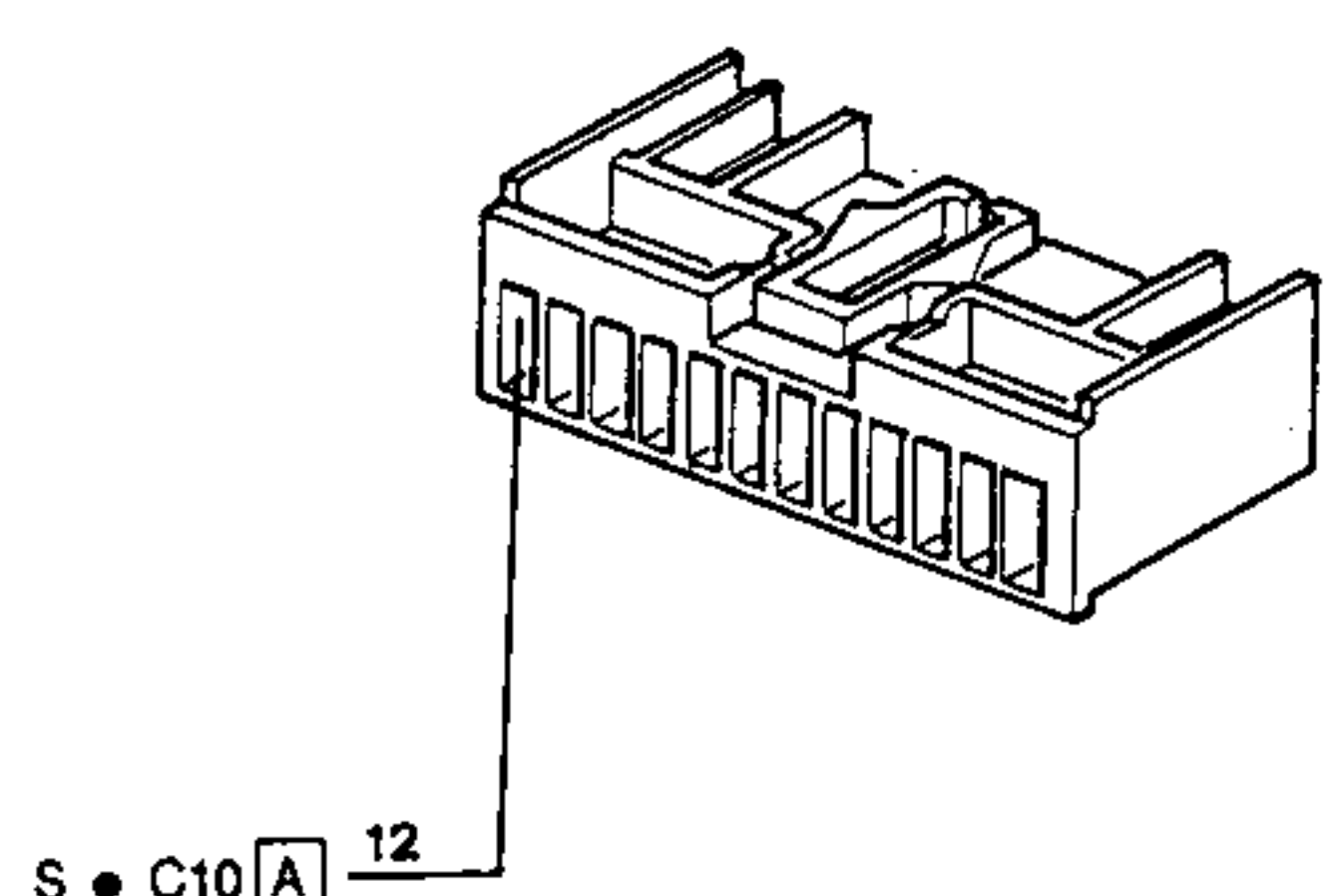
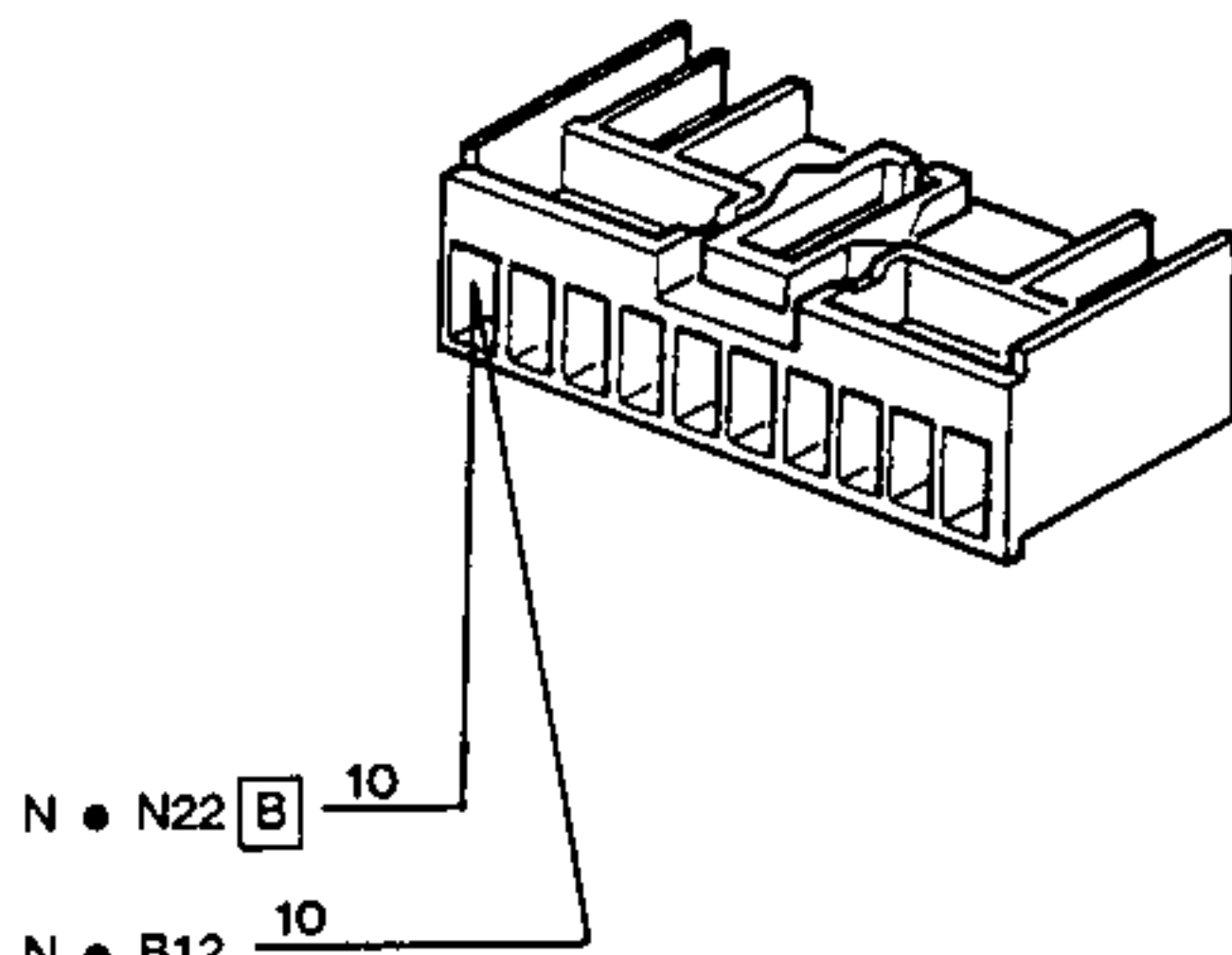
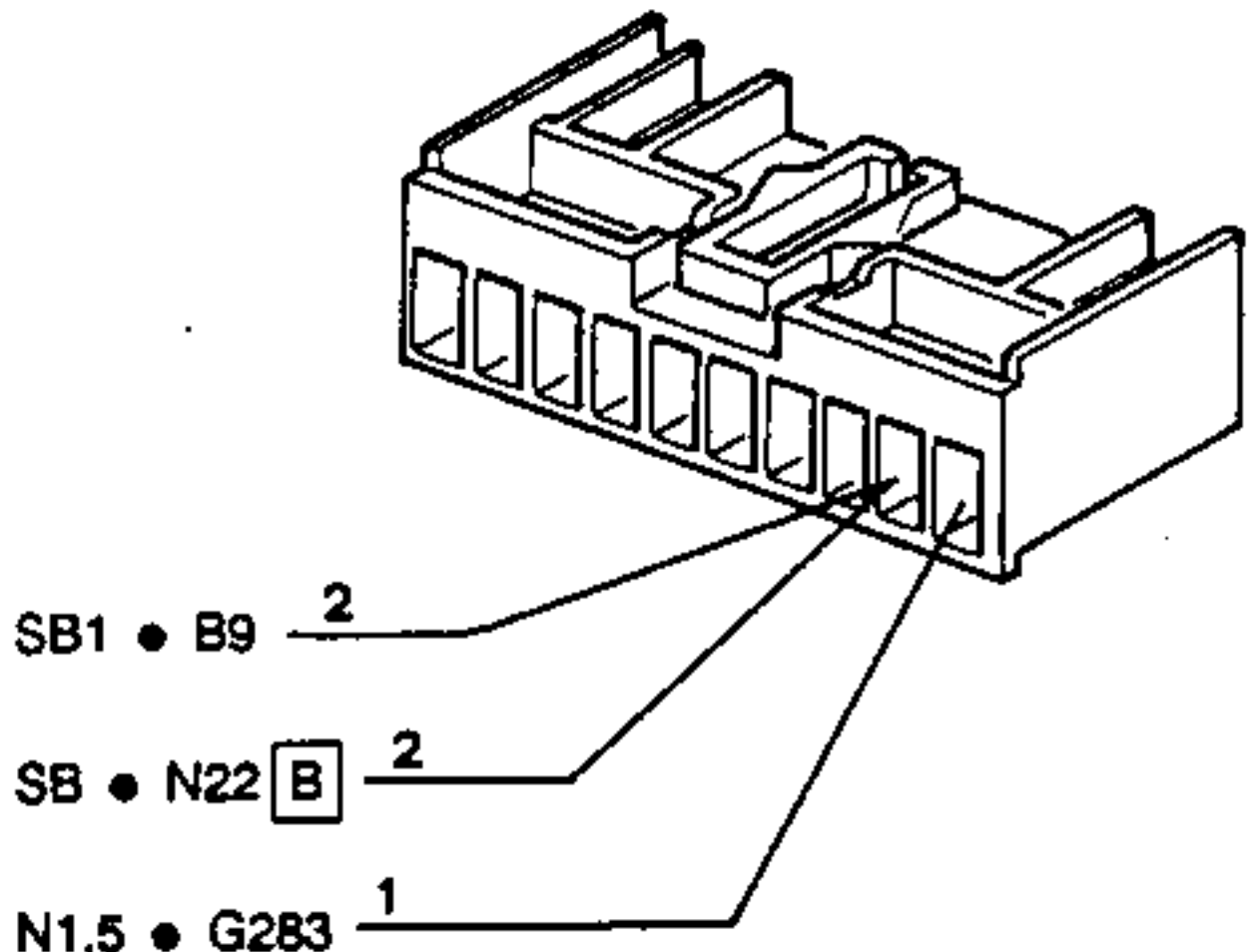
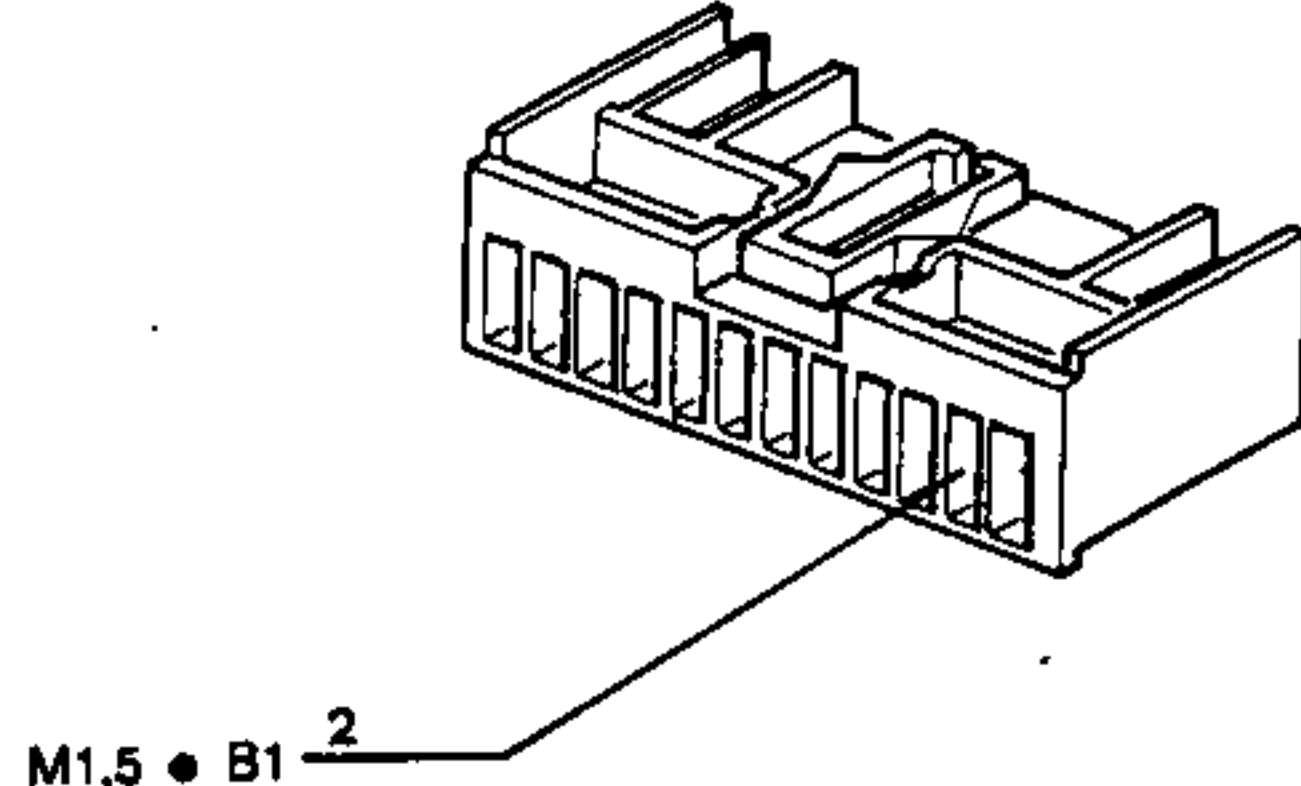


Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Hazard warning lights control switch</p>	<p>B12</p>
 <p>VN1,5 • G99a 2</p> <p>M1,5 • G95 [H] 2</p> <p>R2,5 • G56 3</p> <p>Z1 • N22 4</p> <p>N1,5 • G99a 4</p> <p>33.90.028</p>		 <p>N • G95 [F] 9</p> <p>N • I12 9</p> <p>33.90.008</p>	
<p>Instrument panel</p>	<p>C10 A</p>	<p>Instrument panel</p>	<p>C10 B</p>
 <p>CN • N22 [B] 6</p> <p>CN • G99a 6</p> <p>M • G99a 4</p> <p>S • G95 [D] 5</p> <p>33.90.024</p>		 <p>N • G269 5</p> <p>B0,35 • G270 (*) 5</p> <p>33.90.024</p>	

(\*) Specific to version 4 x 4

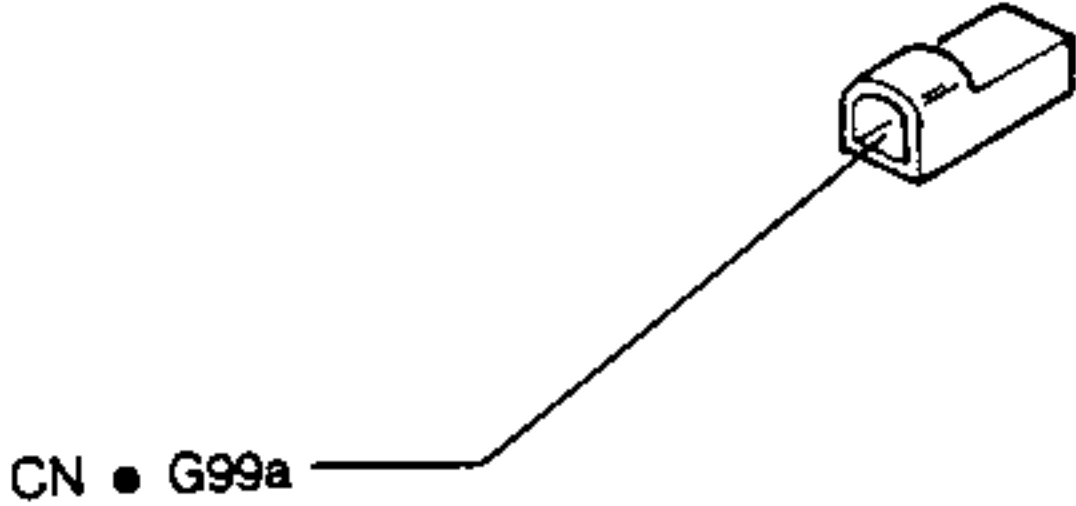
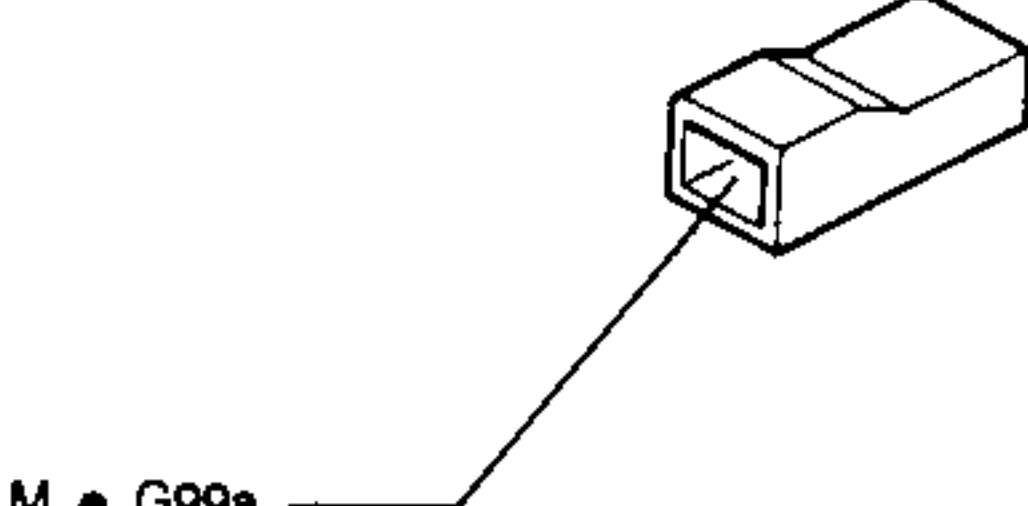
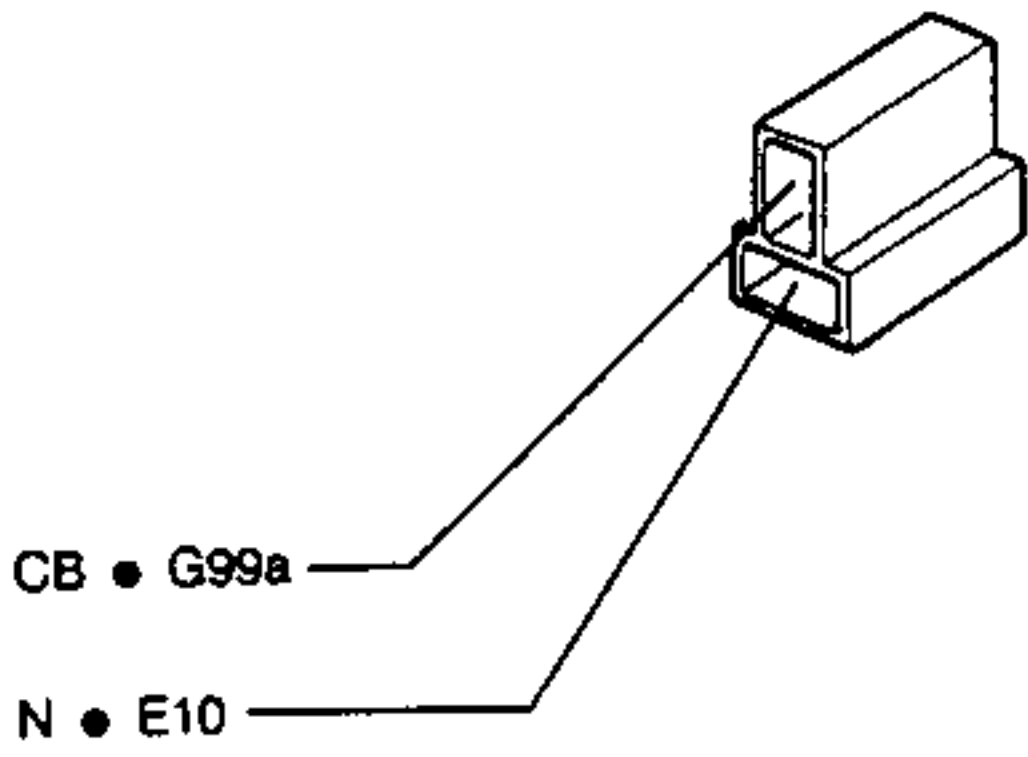
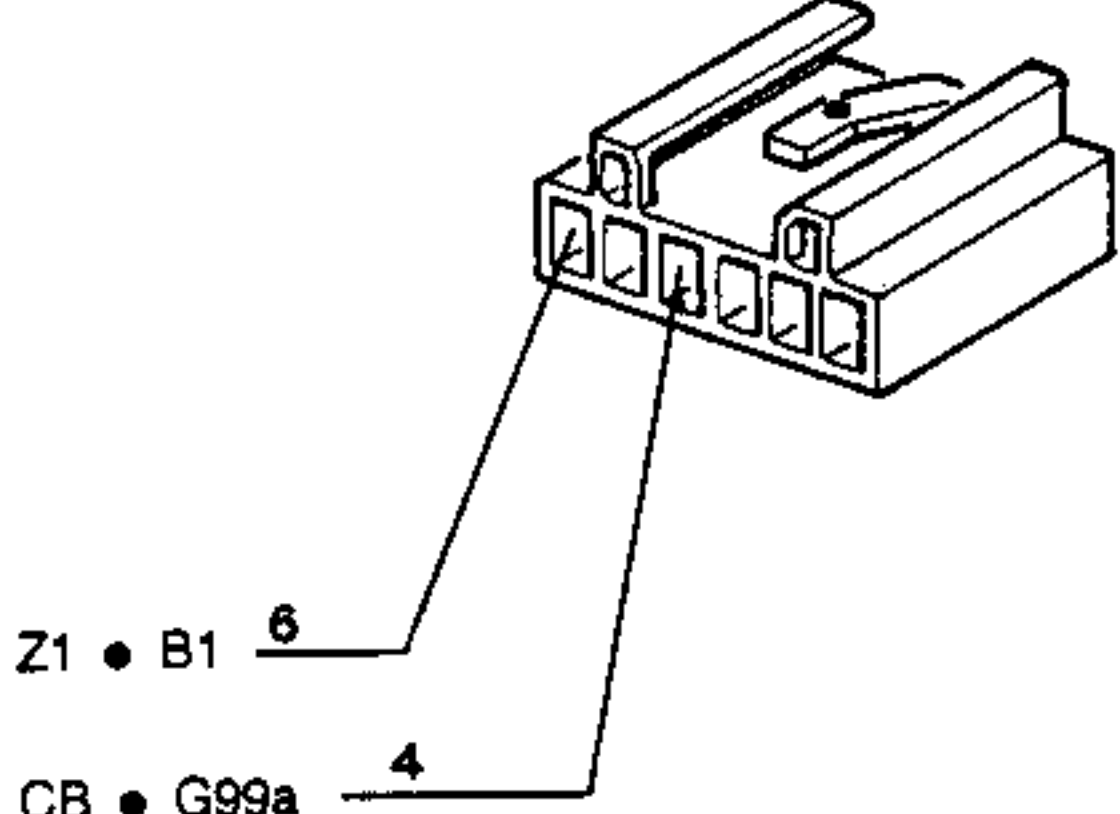
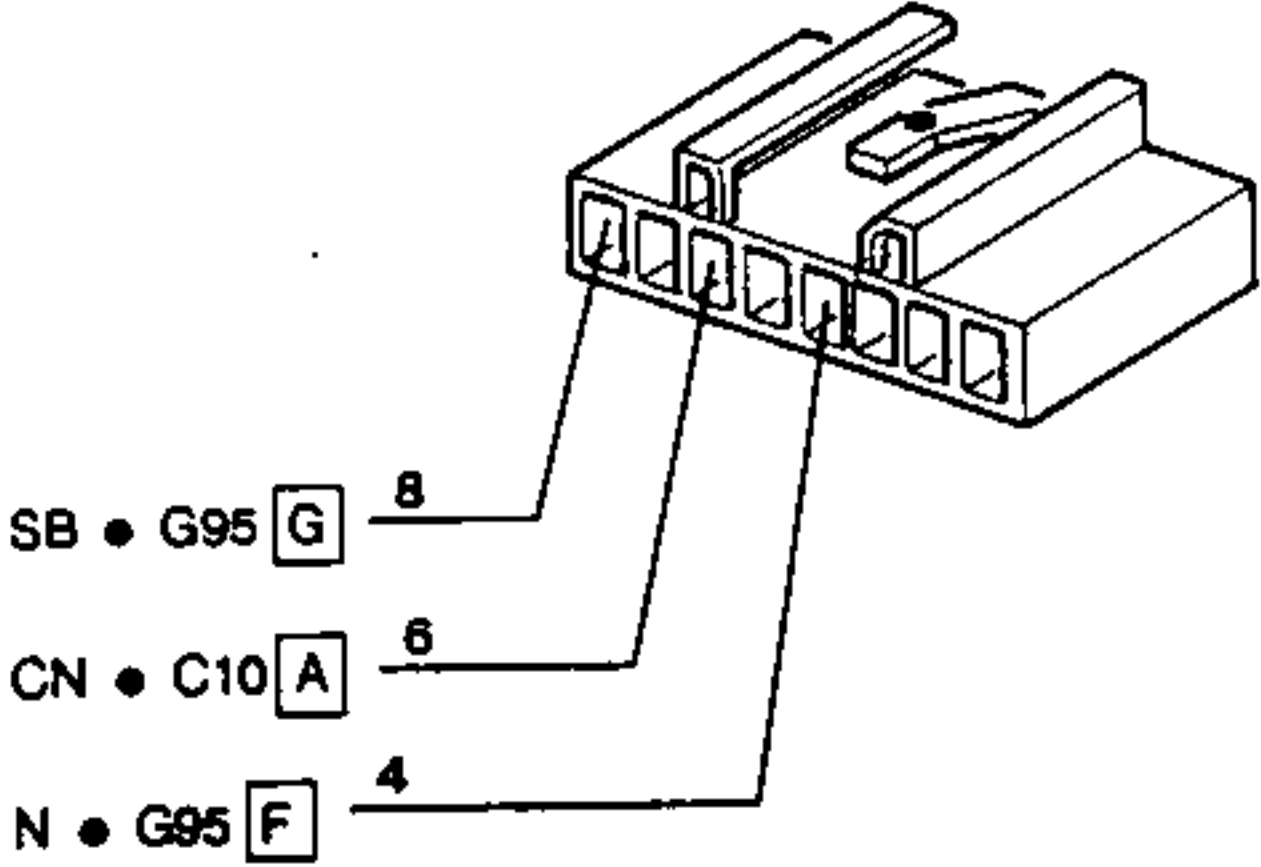
# ELECTRICAL SYSTEM

<p><b>Fog lamp (left)</b></p>  <p>N • L14 <u>2</u> N1 • G267 <u>2</u></p>	<p><b>E10</b></p>	<p><b>Branch terminal board</b></p>  <p>R2,5 • B1 R2,5 • B68 <u>A</u> R10 • A1 (+)</p>	<p><b>G56</b></p>
<p>33.90.017</p>		<p>33.90.066</p>	
<p><b>Central fusebox</b></p>  <p>S • C10 <u>A</u> <u>12</u></p>	<p><b>G95 D</b></p>	<p><b>Central fusebox</b></p>  <p>N • N22 <u>B</u> <u>10</u> N • B12 <u>10</u></p>	<p><b>G95 F</b></p>
<p>33.90.004</p>		<p>33.90.005</p>	
<p><b>Central fusebox</b></p>  <p>SB1 • B9 <u>2</u> SB • N22 <u>B</u> <u>2</u> N1,5 • G283 <u>1</u></p>	<p><b>G95 G</b></p>	<p><b>Central fusebox</b></p>  <p>M1,5 • B1 <u>2</u></p>	<p><b>G95 H</b></p>
<p>33.90.005</p>		<p>33.90.004</p>	

# ELECTRICAL SYSTEM

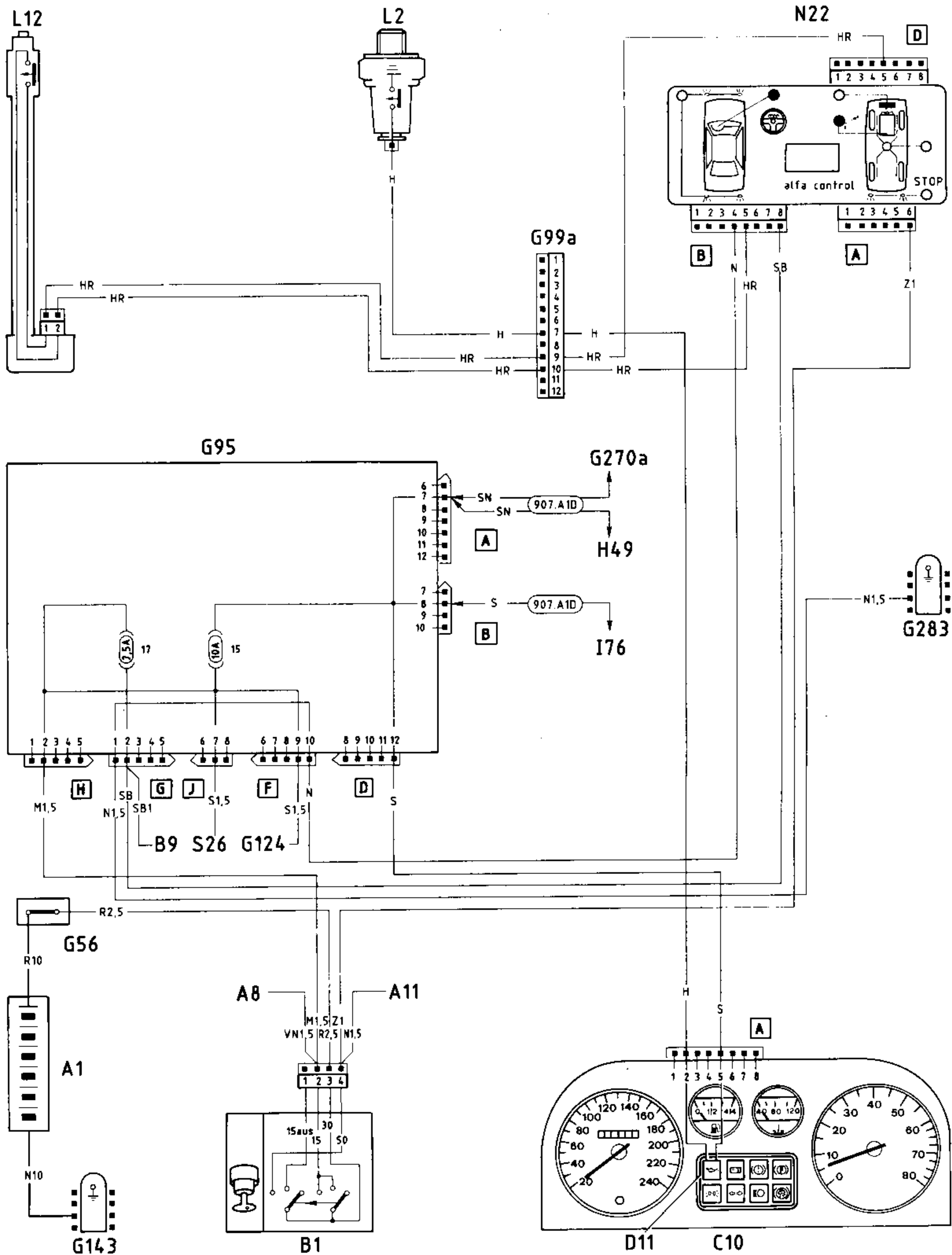
<p style="text-align: center;"><b>Connector for engine dashboard A</b></p> <p style="text-align: right;"><b>G99a</b></p>	<p style="text-align: center;"><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>
<p style="text-align: right;">33.90.016</p>	<p style="text-align: right;">33.90.001</p>
<p style="text-align: center;"><b>Earth on cylinder block (from right services)</b></p> <p style="text-align: right;"><b>G267</b></p>	<p style="text-align: center;"><b>Glove compartment lamp connection</b></p> <p style="text-align: right;"><b>G269</b></p>
<p style="text-align: right;">33.90.014</p>	<p style="text-align: right;">33.90.013</p>
<p style="text-align: center;"><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>	<p style="text-align: center;"><b>Front power window relay</b></p> <p style="text-align: right;"><b>I12</b></p>
<p style="text-align: right;">33.90.001</p>	<p style="text-align: right;">33.90.007</p>

ELECTRICAL SYSTEM

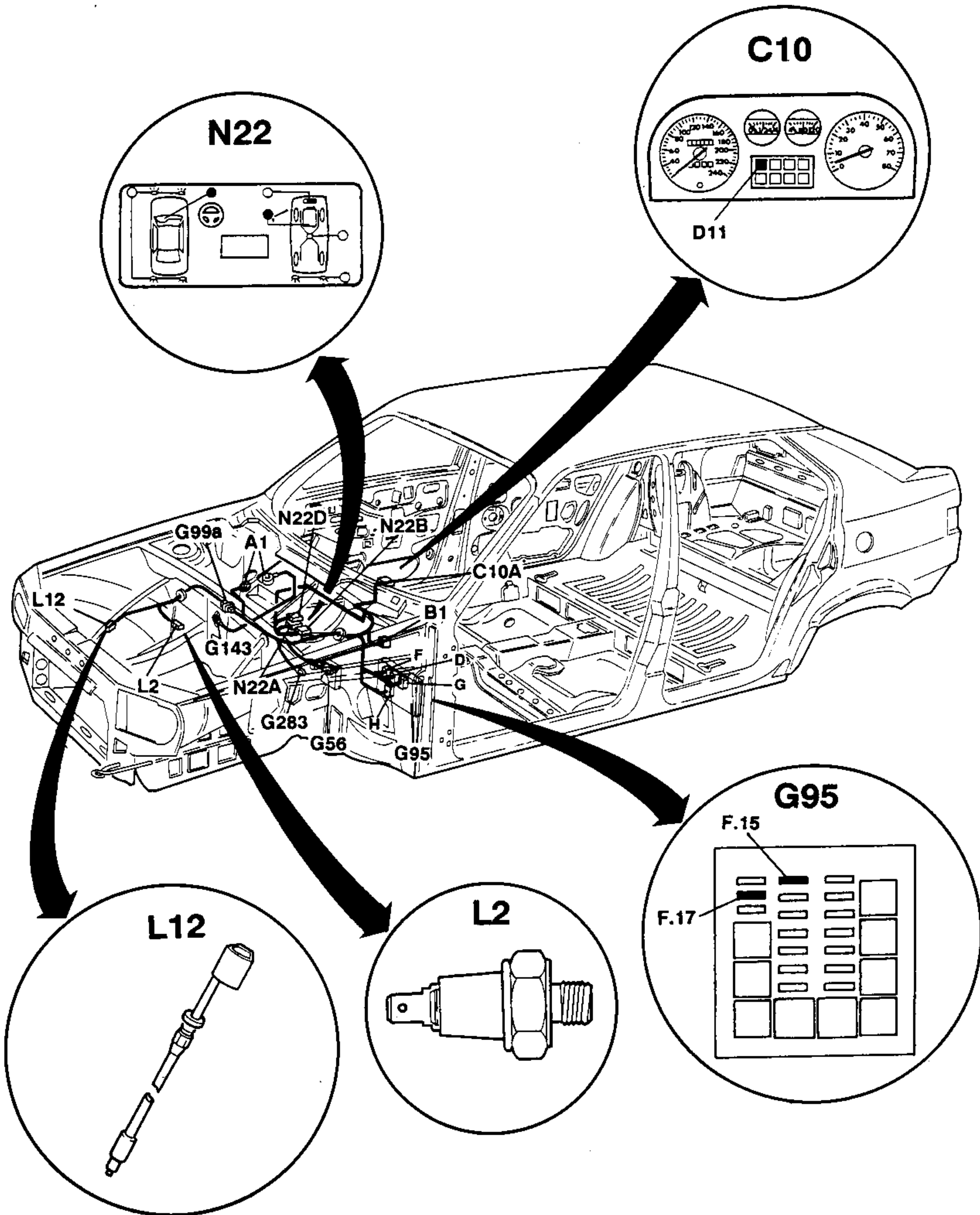
<p>Thermal switch for engine coolant max temperature</p>	<p>L5</p>	<p>Engine coolant temperature gauge sender</p>	<p>L7</p>
 <p>CN • G99a</p> <p>33.90.041</p>		 <p>M • G99a</p> <p>33.90.015</p>	
<p>Engine coolant level sensor</p>	<p>L14</p>	<p>ALFA ROMEO Control - control unit</p>	<p>N22 A</p>
 <p>CB • G99a</p> <p>N • E10</p> <p>33.90.020</p>		 <p>Z1 • B1 6</p> <p>CB • G99a 4</p> <p>33.90.034</p>	
<p>ALFA ROMEO Control - control unit</p>		<p>N22 B</p>	
 <p>SB • G95 G 8</p> <p>CN • C10 A 6</p> <p>N • G95 F 4</p> <p>33.90.024</p>			

ENGINE OIL LEVEL AND PRESSURE

Wiring diagram



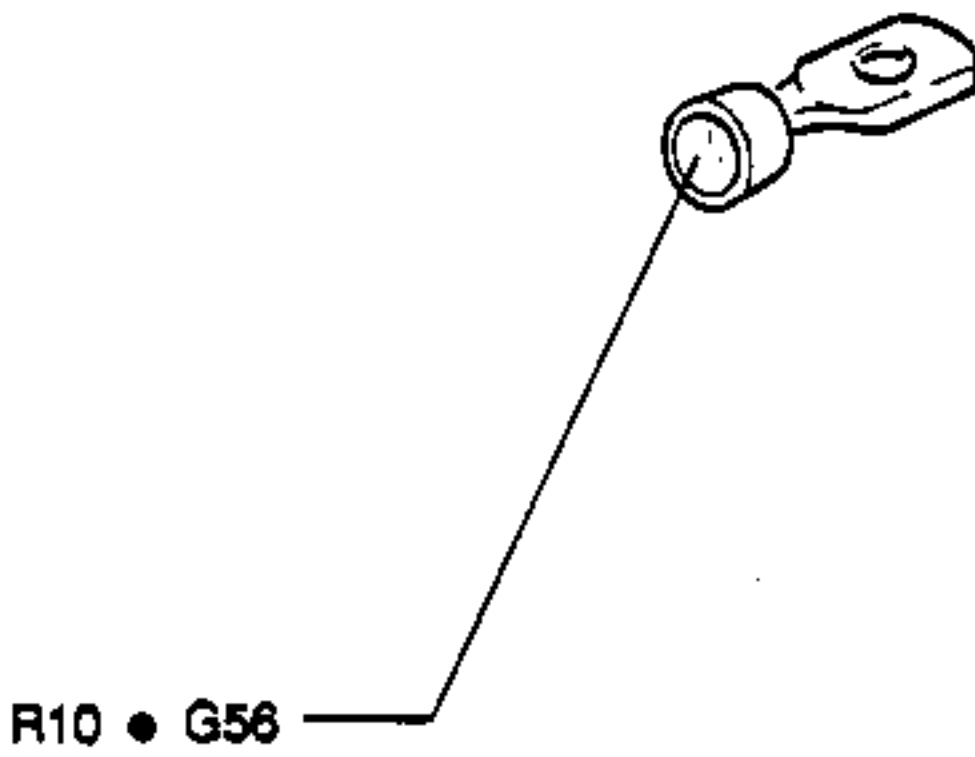
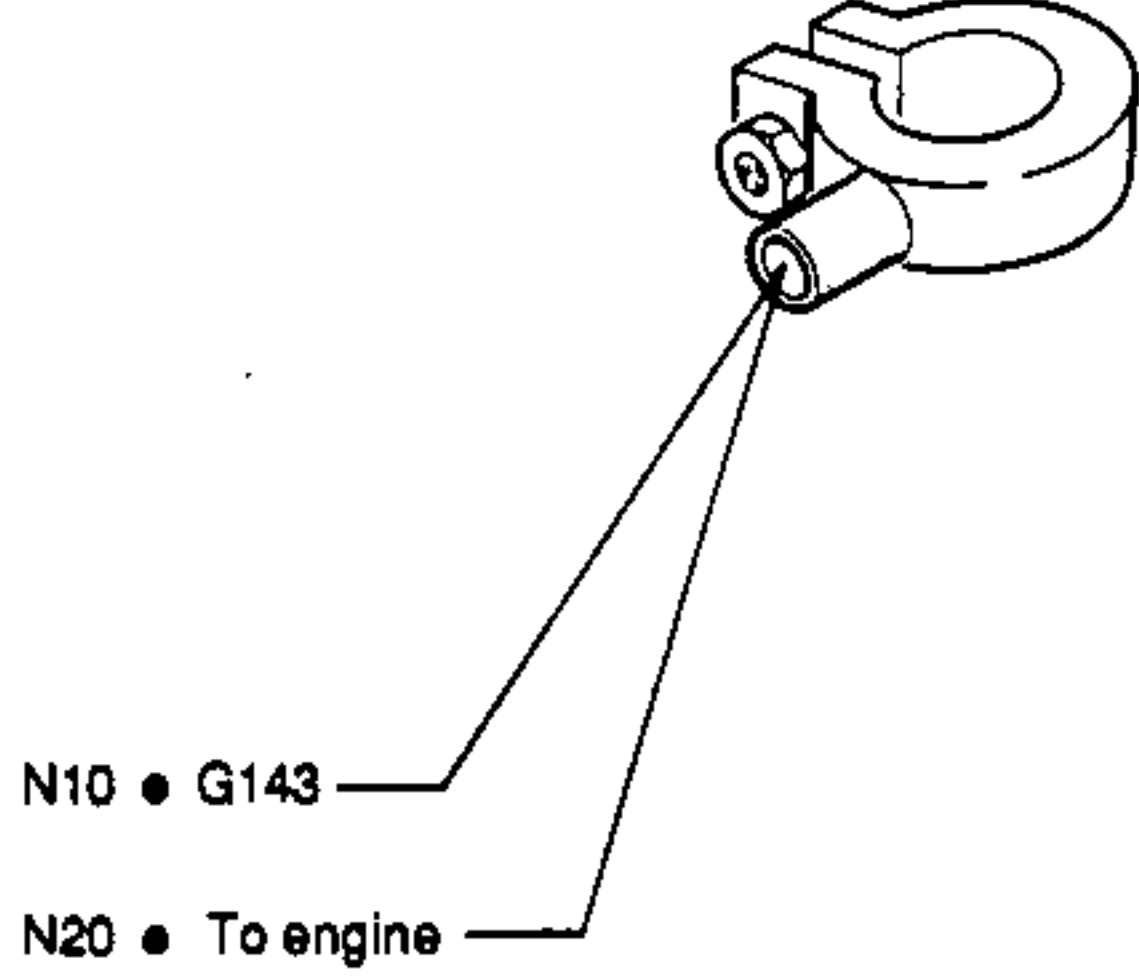
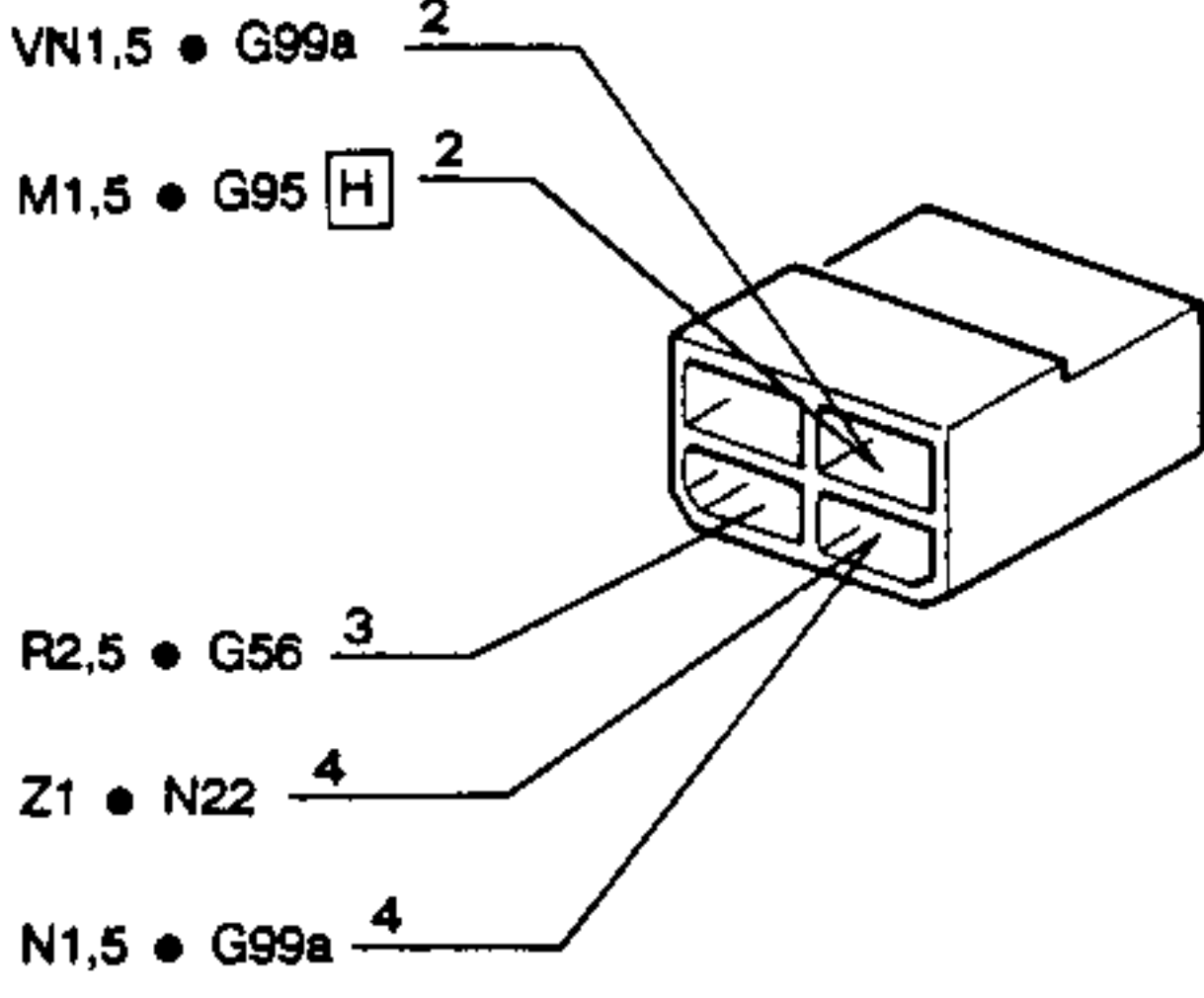
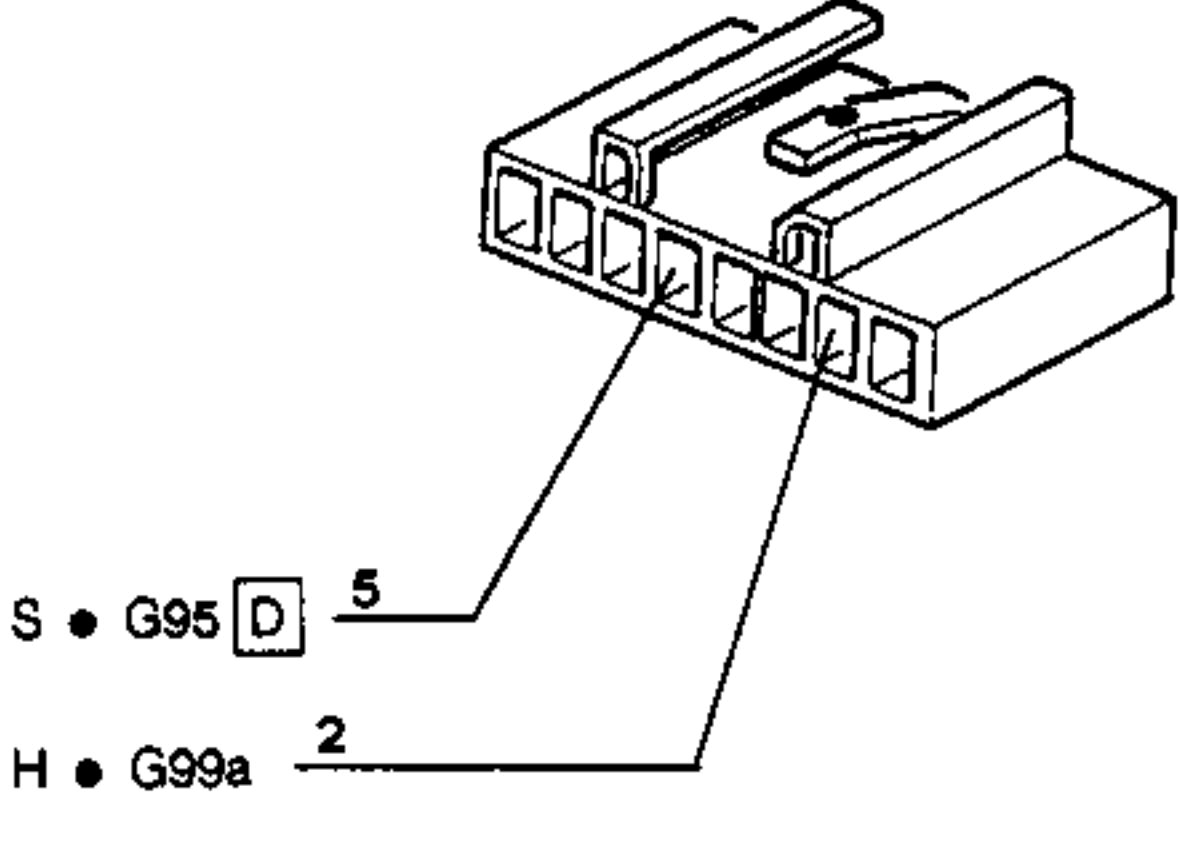
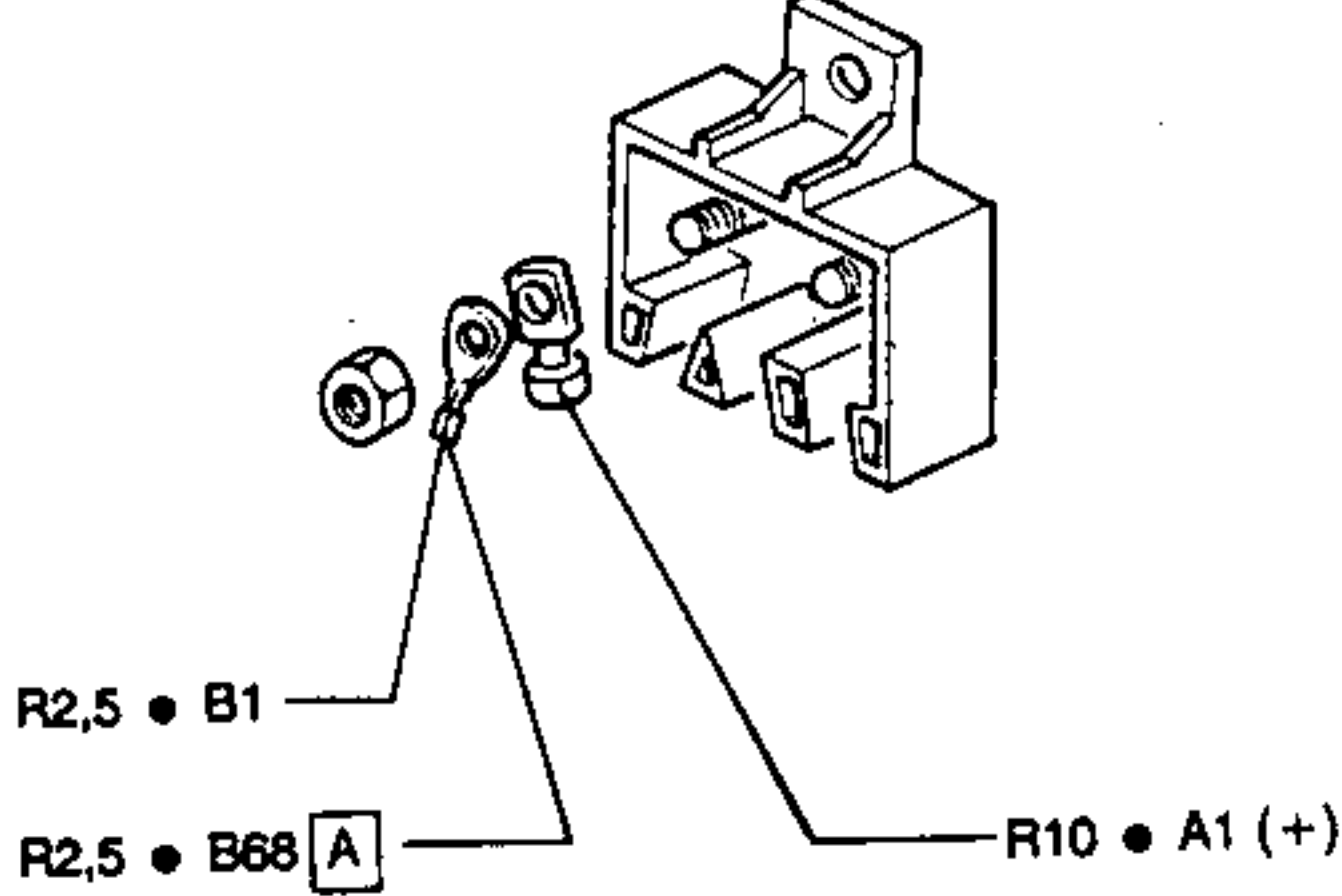
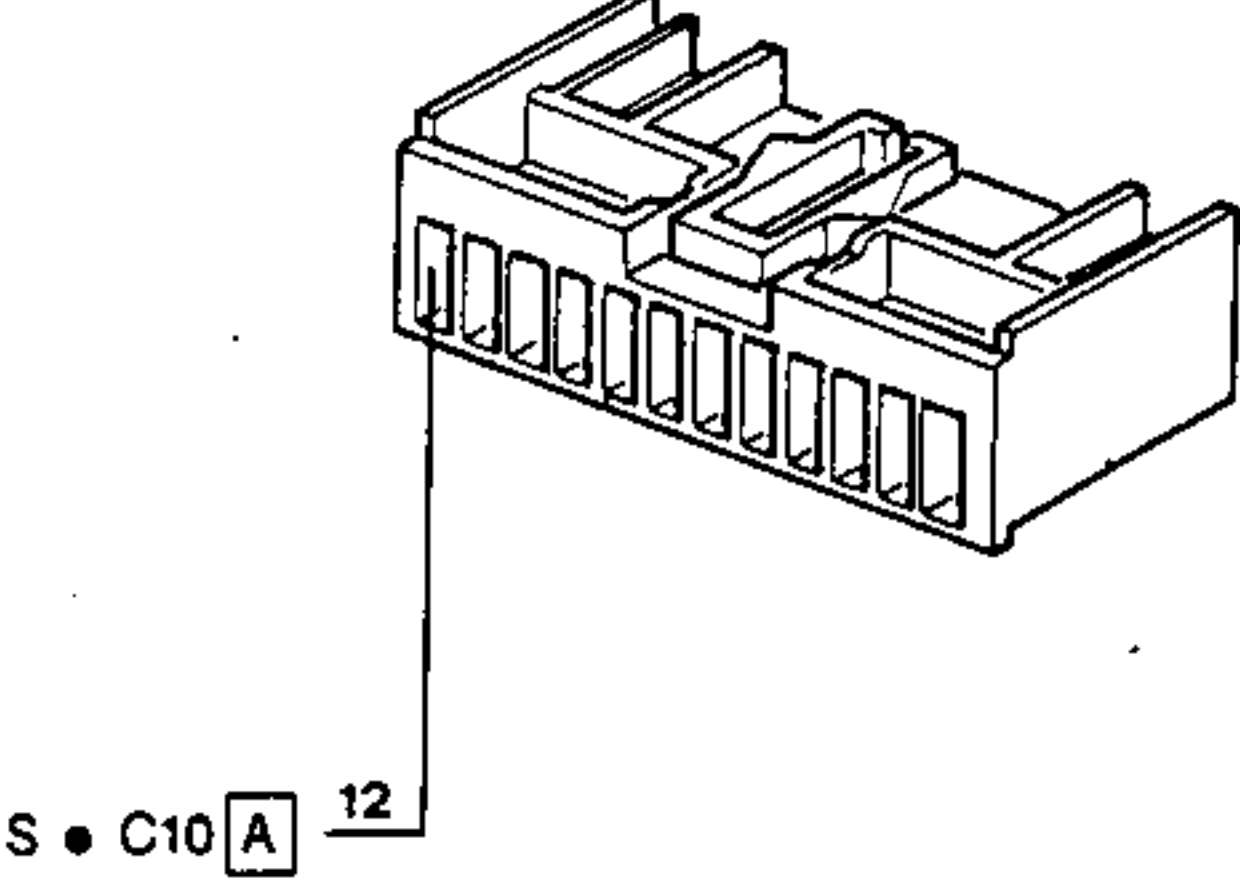
Wiring



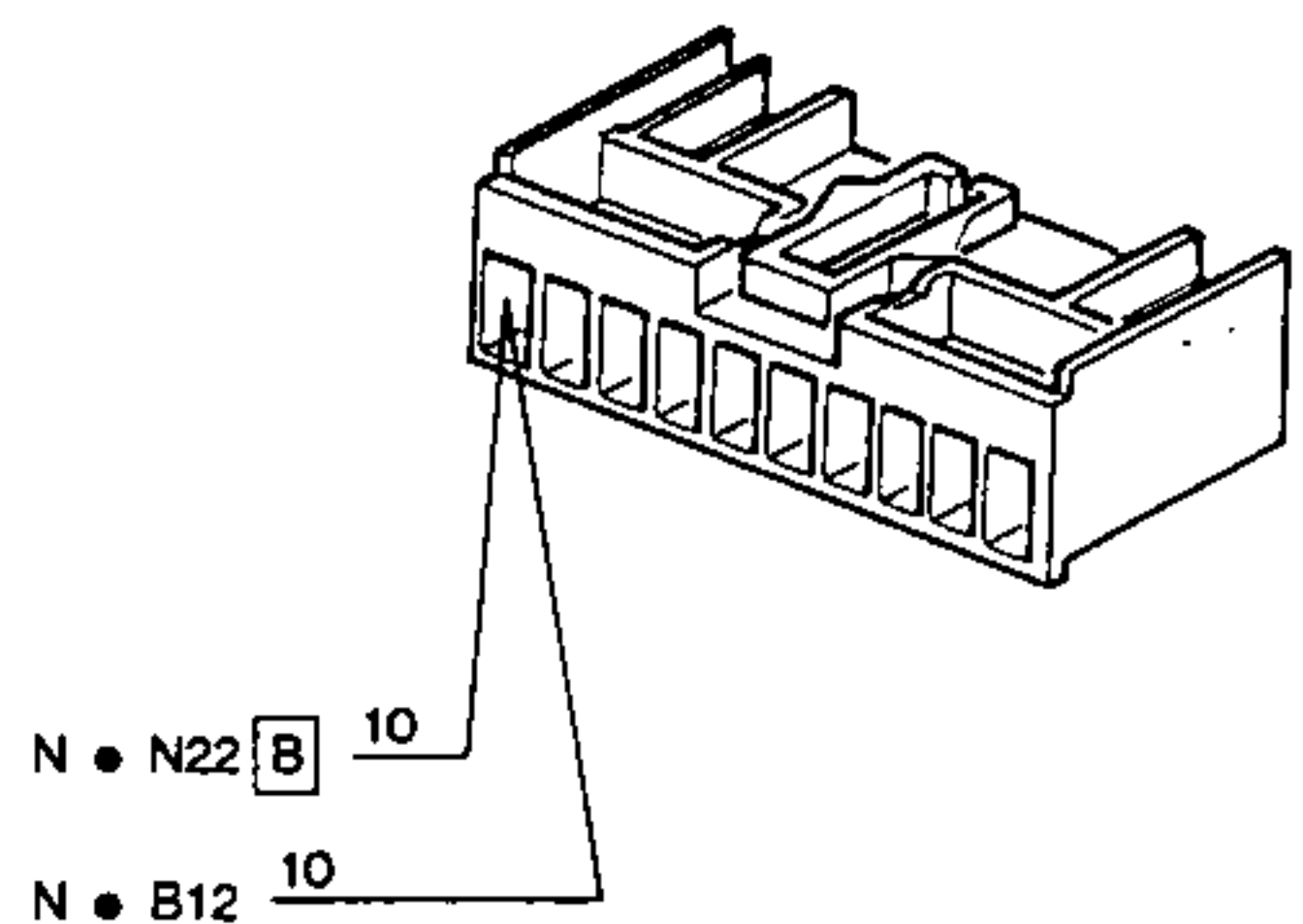
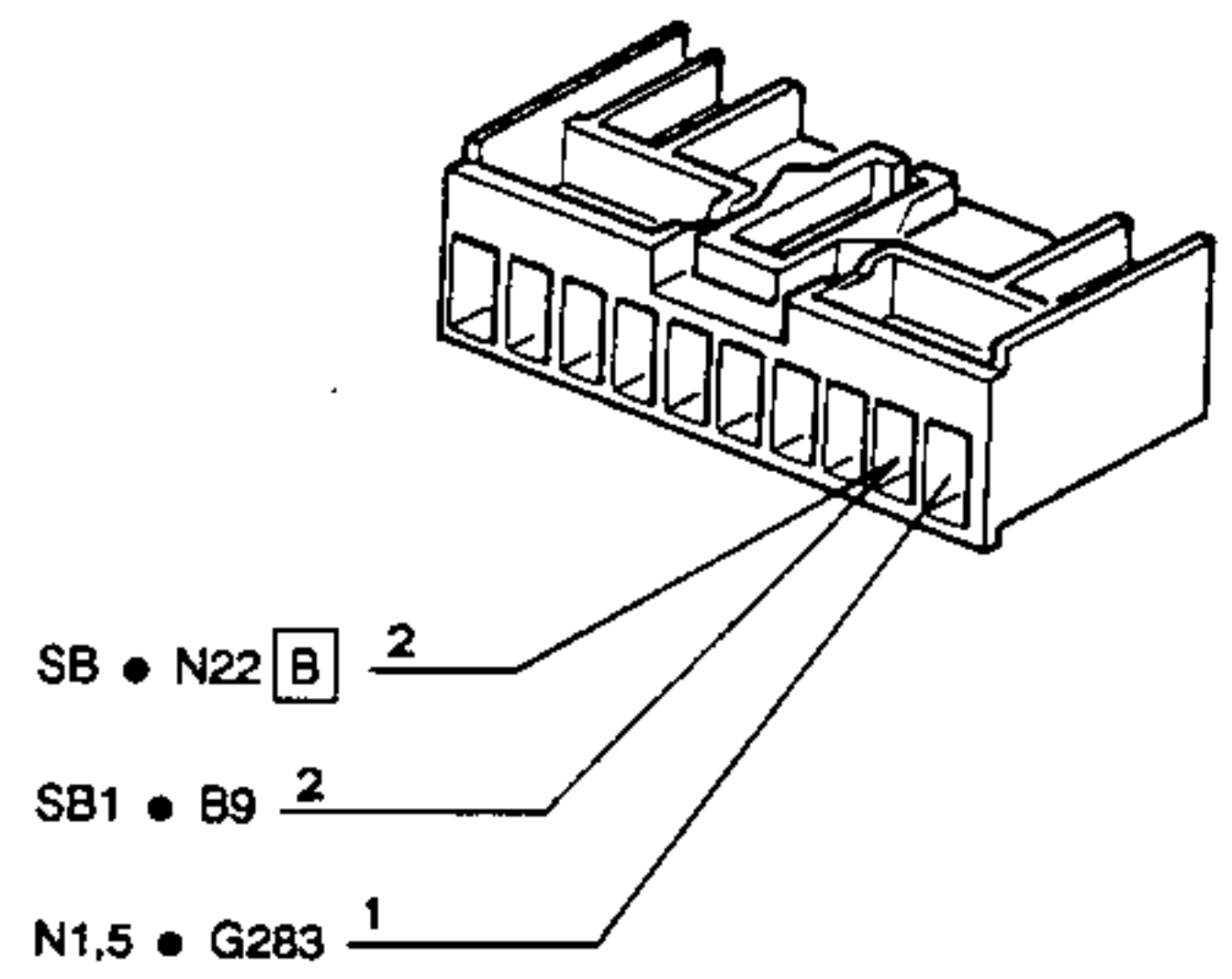
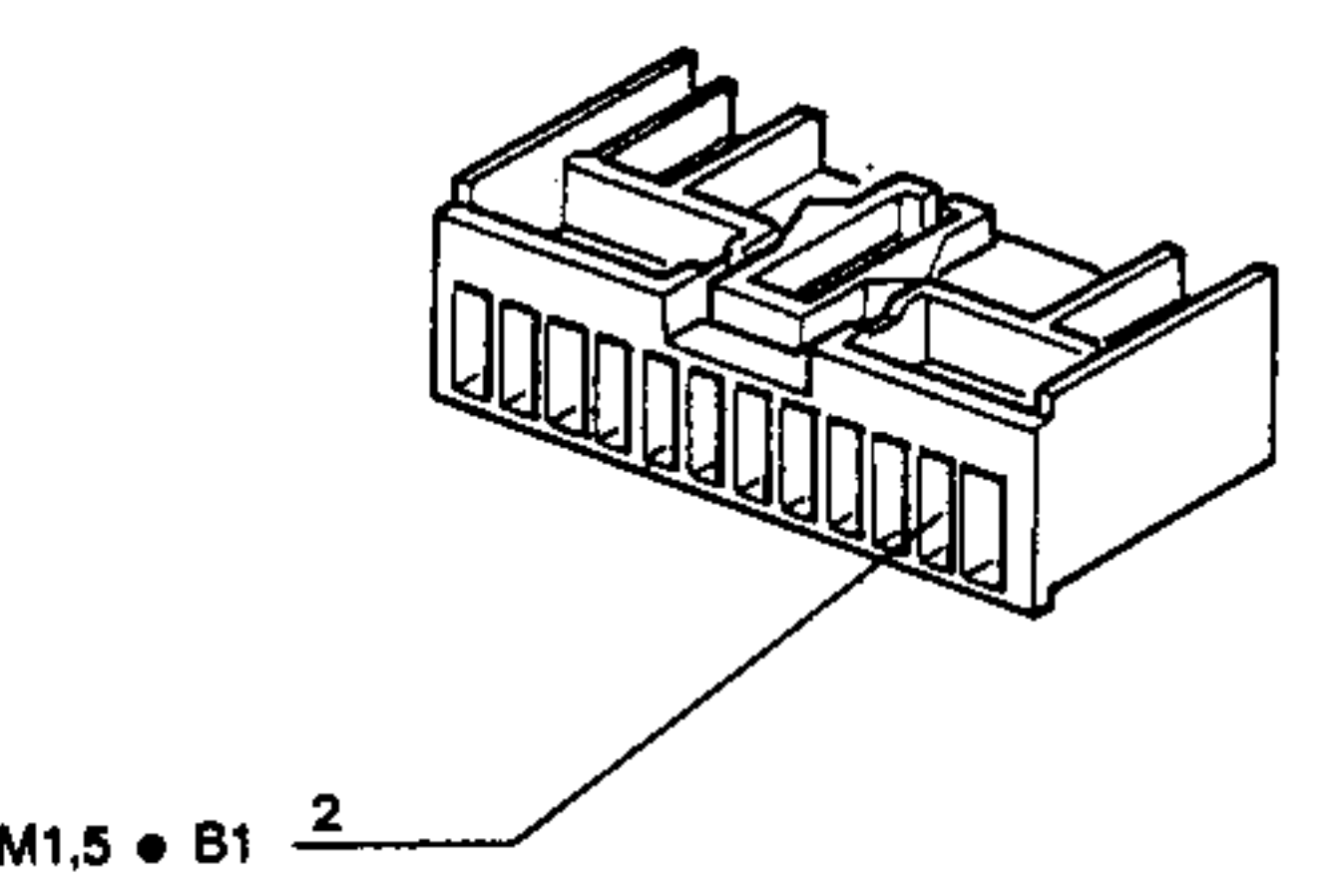
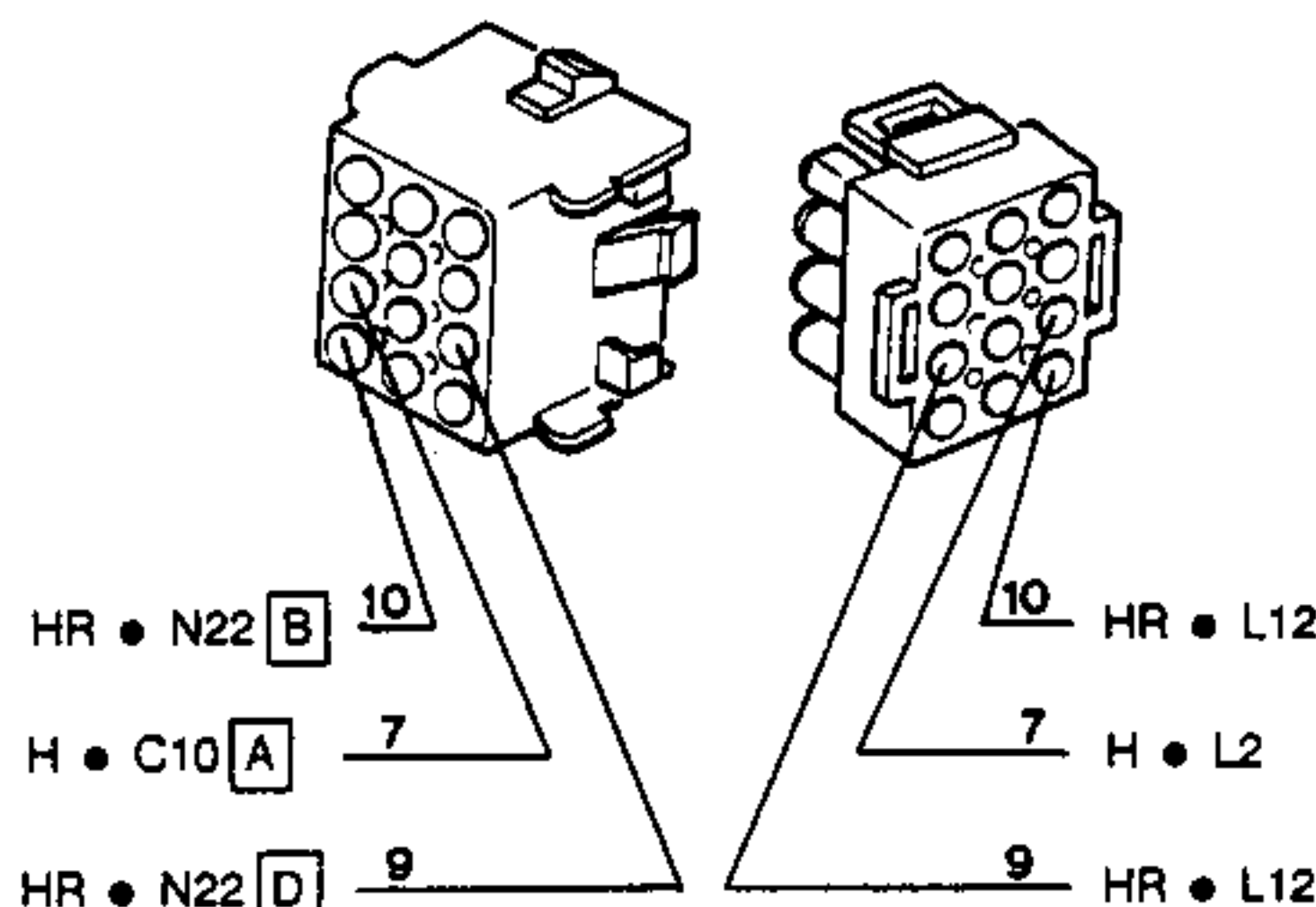
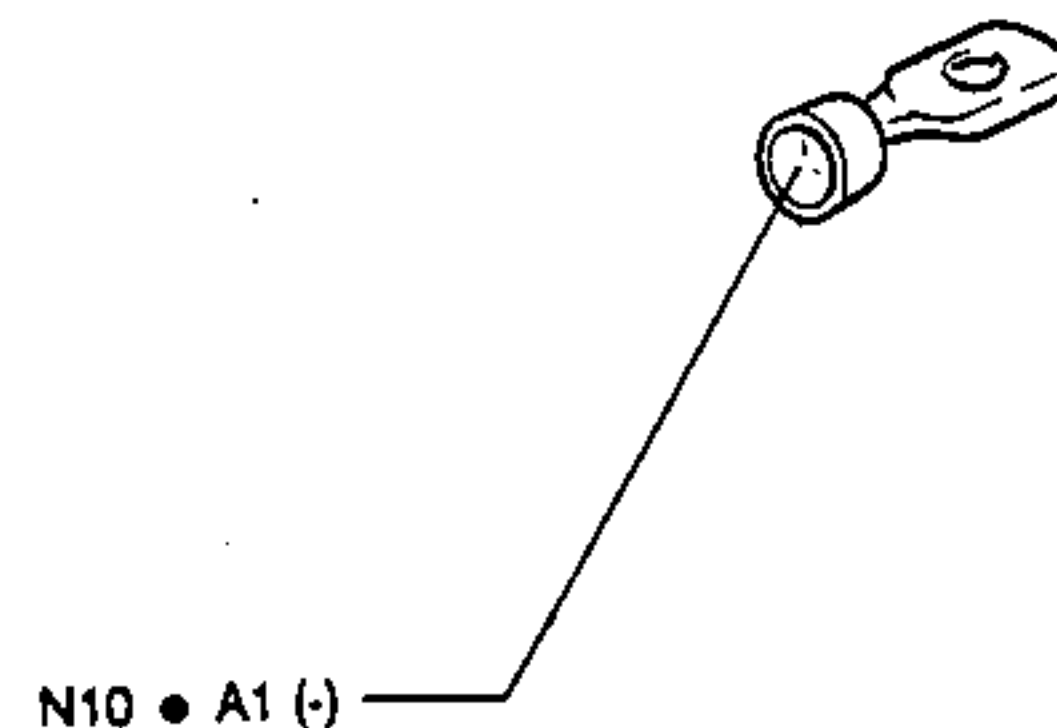
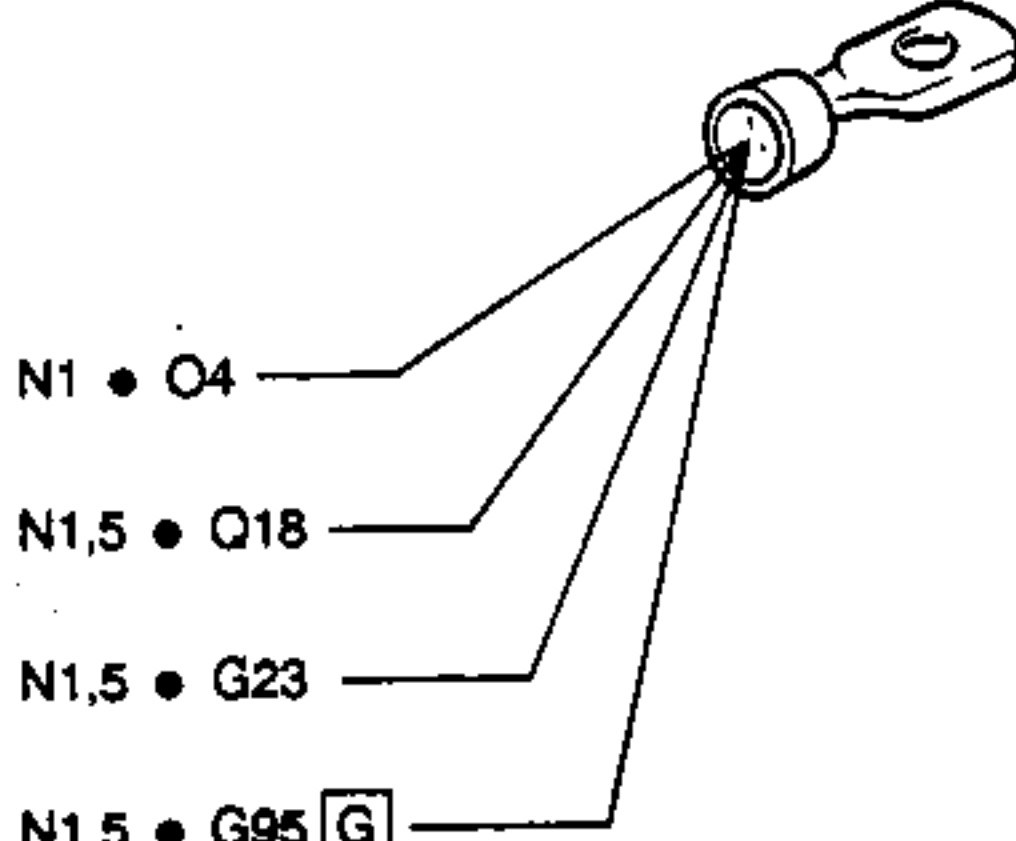


# ELECTRICAL SYSTEM

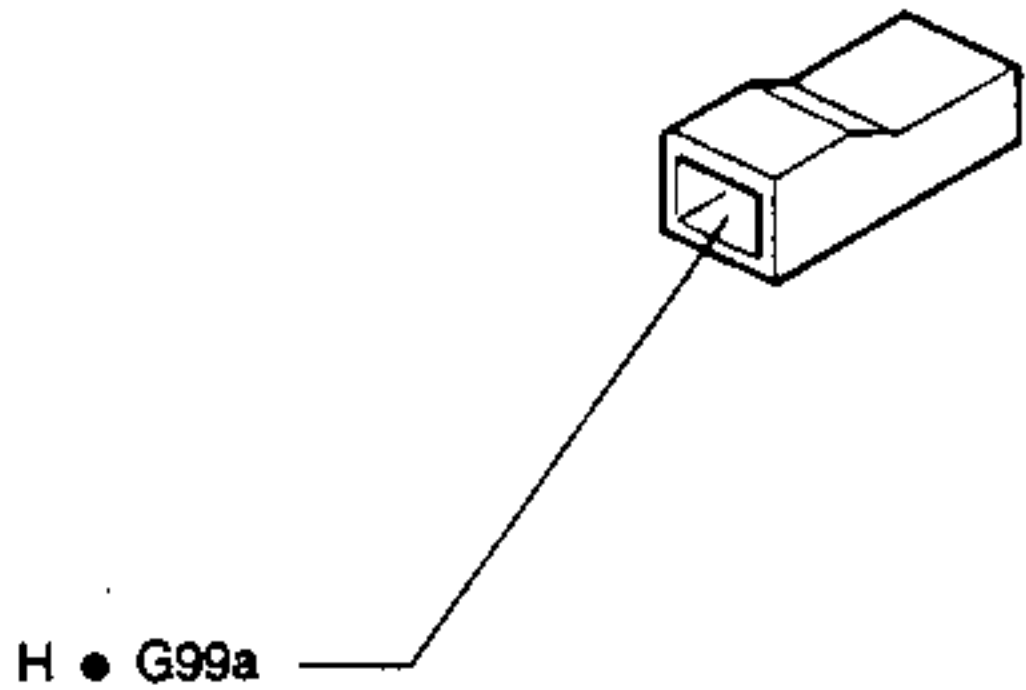
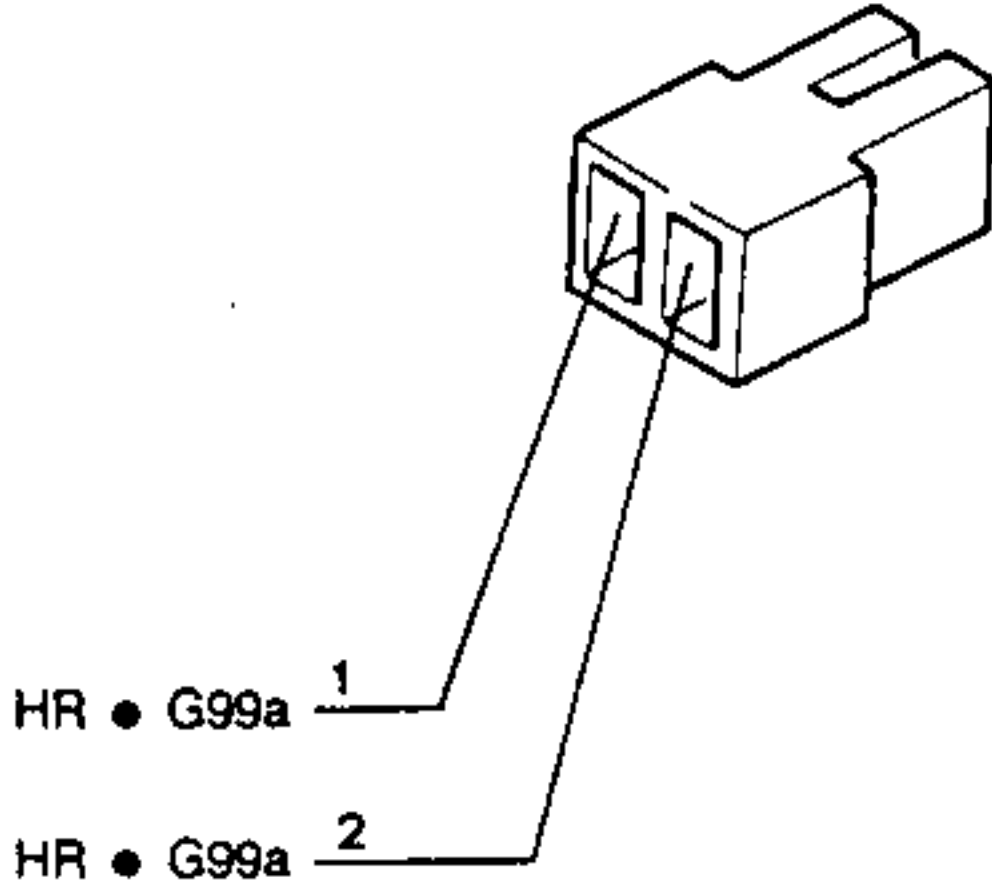
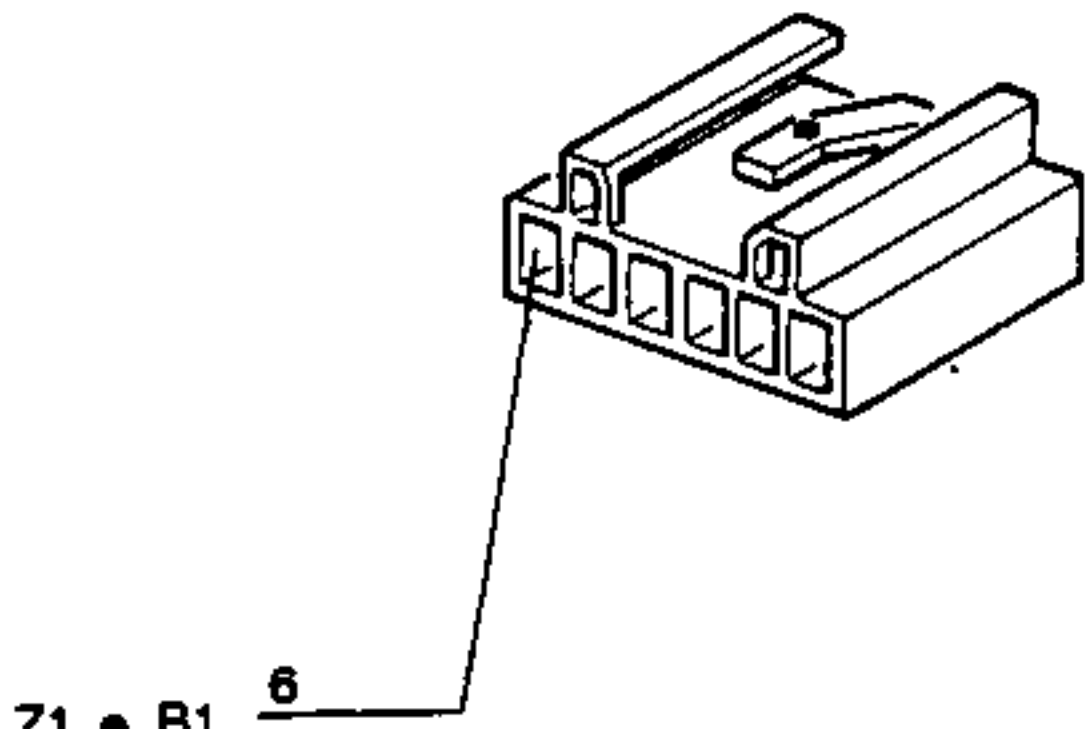
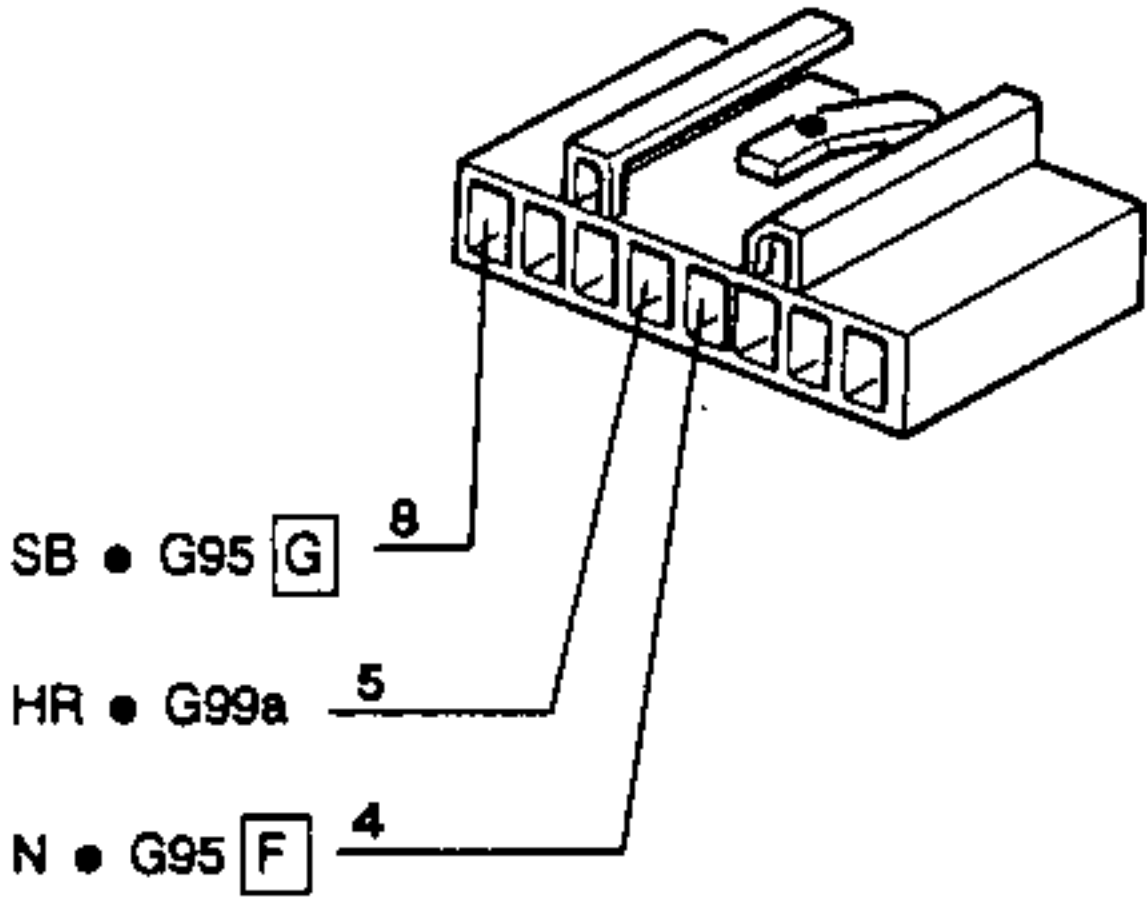
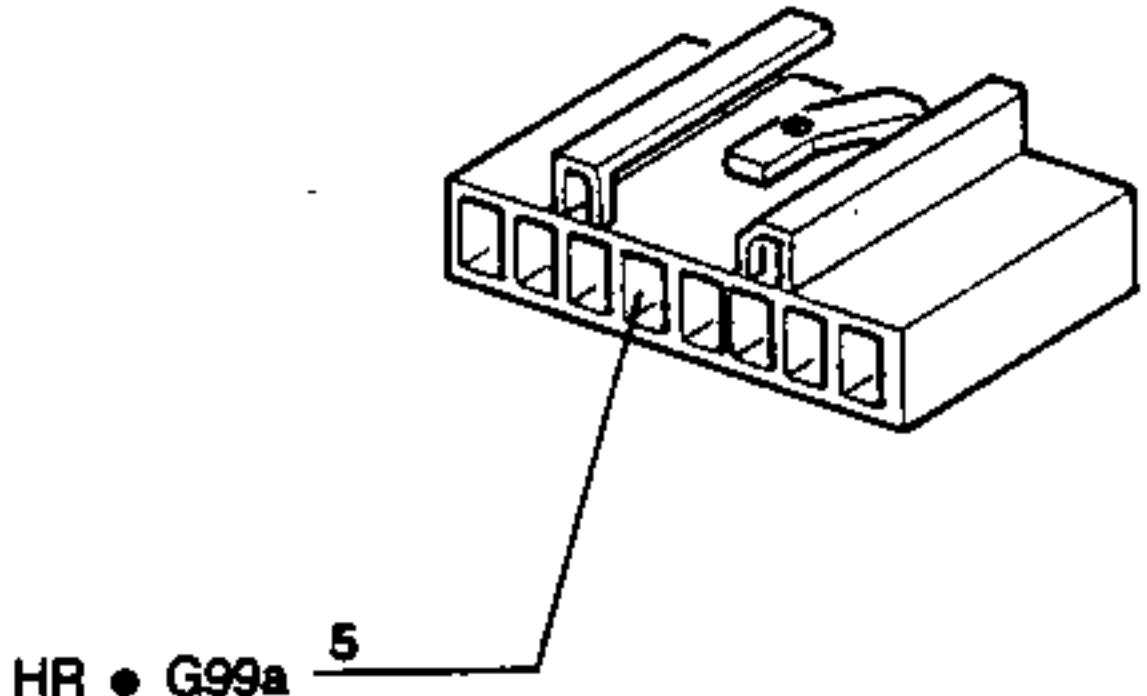
## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Instrument panel	C10 A
 <p>VN1,5 • G99a 2 M1,5 • G95 H 2 R2,5 • G56 3 Z1 • N22 4 N1,5 • G99a 4</p>	33.90.028	 <p>S • G95 D 5 H • G99a 2</p>	33.90.024
Branch terminal board	G56	Central fusebox	G95 D
 <p>R2,5 • B1 R2,5 • B68 A R10 • A1 (+)</p>	33.90.066	 <p>S • C10 A 12</p>	33.90.004

ELECTRICAL SYSTEM

<p>Central fusebox</p>	<p>G95 F</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N • N22 B 10</p> <p>N • B12 10</p>	<p>33.90.005</p>	 <p>SB • N22 B 2</p> <p>SB1 • B9 2</p> <p>N1,5 • G283 1</p>	<p>33.90.005</p>
<p>Central fusebox</p>	<p>G95 H</p>	<p>Connector for engine dashboard A</p>	<p>G99a</p>
 <p>M1,5 • B1 2</p>	<p>33.90.004</p>	 <p>HR • N22 B 10</p> <p>H • C10 A 7</p> <p>HR • N22 D 9</p> <p>HR • L12 10</p> <p>H • L2 7</p> <p>HR • L12 9</p>	<p>33.90.016</p>
<p>Central service compartment earth</p>	<p>G143</p>	<p>Earth on left service compartment</p>	<p>G283</p>
 <p>N10 • A1 (-)</p>	<p>33.90.001</p>	 <p>N1 • O4</p> <p>N1,5 • Q18</p> <p>N1,5 • G23</p> <p>N1,5 • G95 G</p>	<p>33.90.001</p>

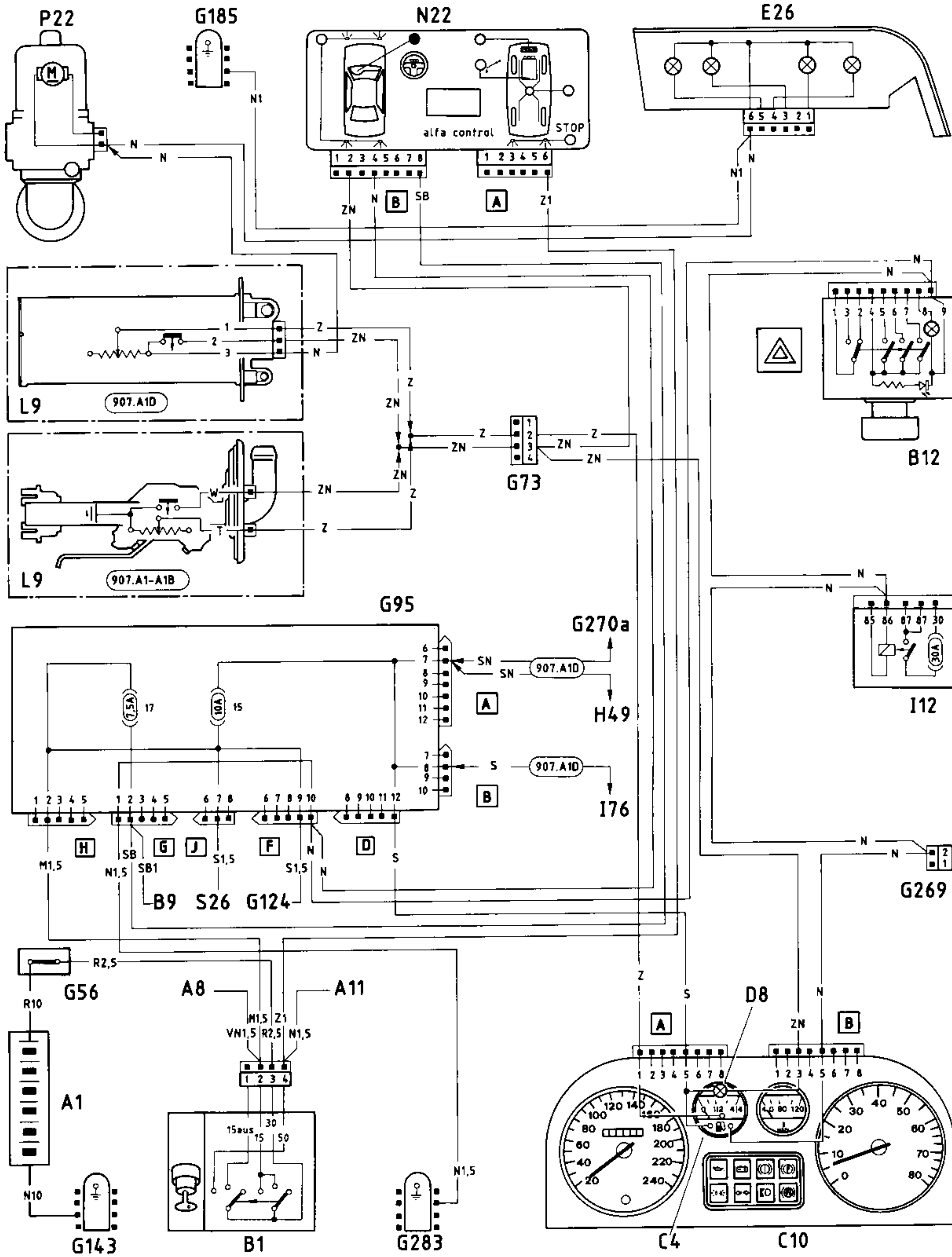
ELECTRICAL SYSTEM

<p>Low engine oil pressure switch</p>	<p>L2</p>	<p>Engine oil level sensor</p>	<p>L12</p>
 <p>H • G99a</p> <p>33.90.015</p>		 <p>HR • G99a 1</p> <p>HR • G99a 2</p> <p>33.90.017</p>	
<p>ALFA ROMEO Control - control unit</p>	<p>N22 A</p>	<p>ALFA ROMEO Control - control unit</p>	<p>N22 B</p>
 <p>Z1 • B1 6</p> <p>33.90.034</p>		 <p>SB • G95 G 8</p> <p>HR • G99a 5</p> <p>N • G95 F 4</p> <p>33.90.024</p>	
<p>ALFA ROMEO Control - control unit</p>		<p>N22 D</p>	
 <p>HR • G99a 5</p> <p>33.90.024</p>			

# ELECTRICAL SYSTEM

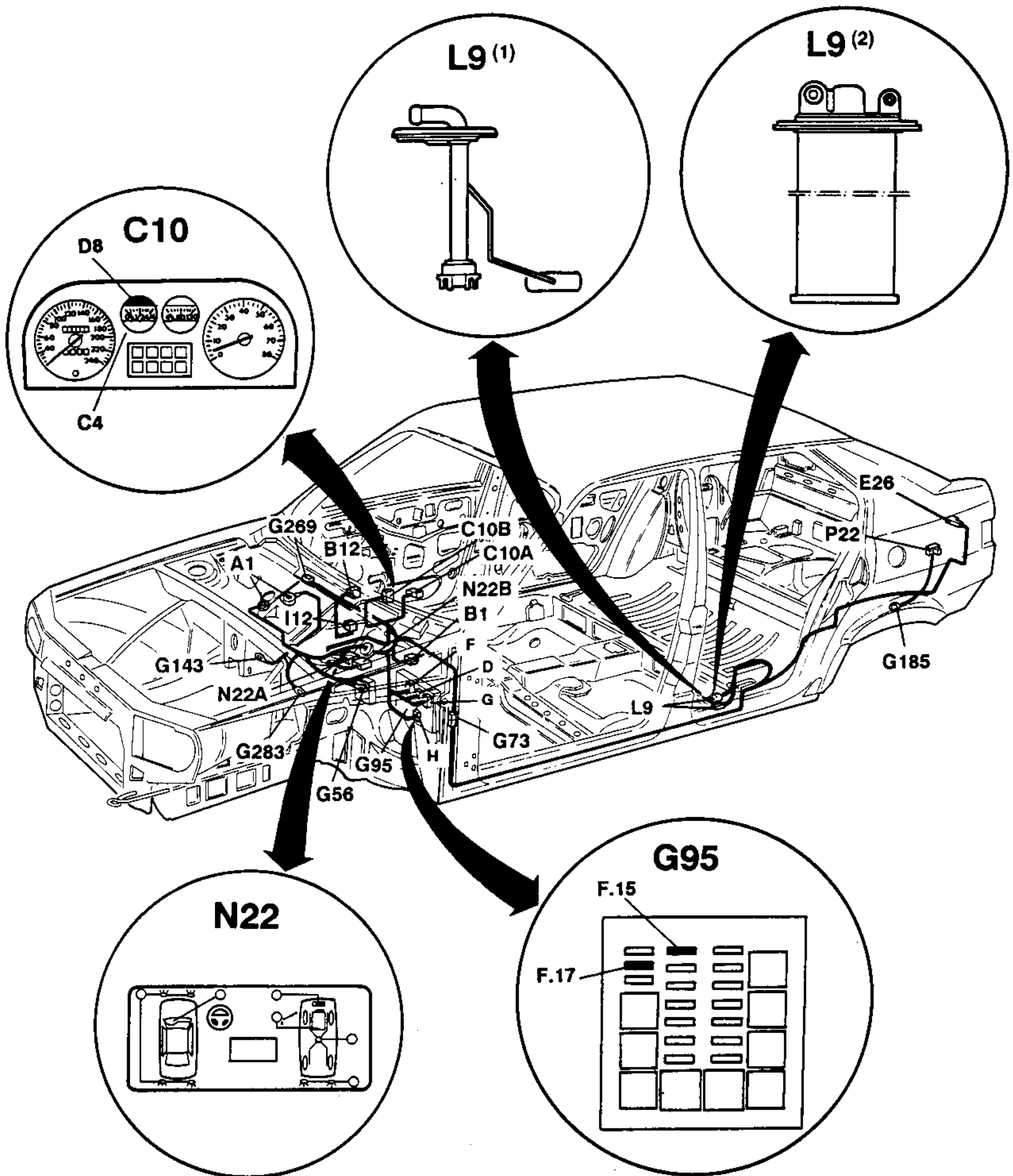
## FUEL LEVEL

### Wiring diagram



# ELECTRICAL SYSTEM

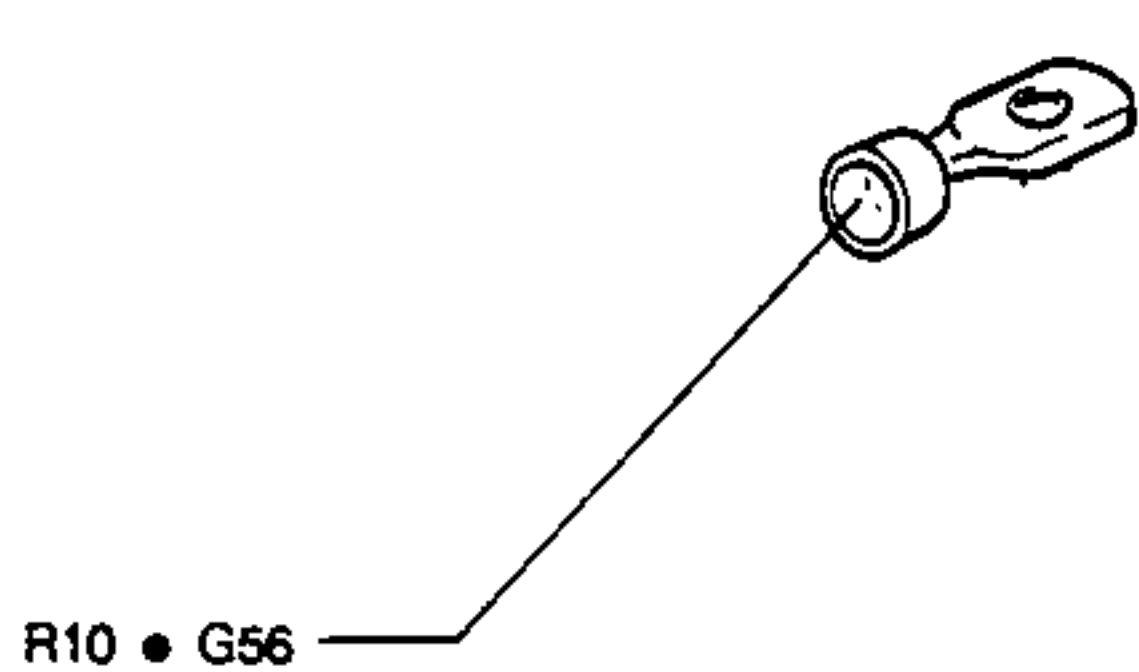
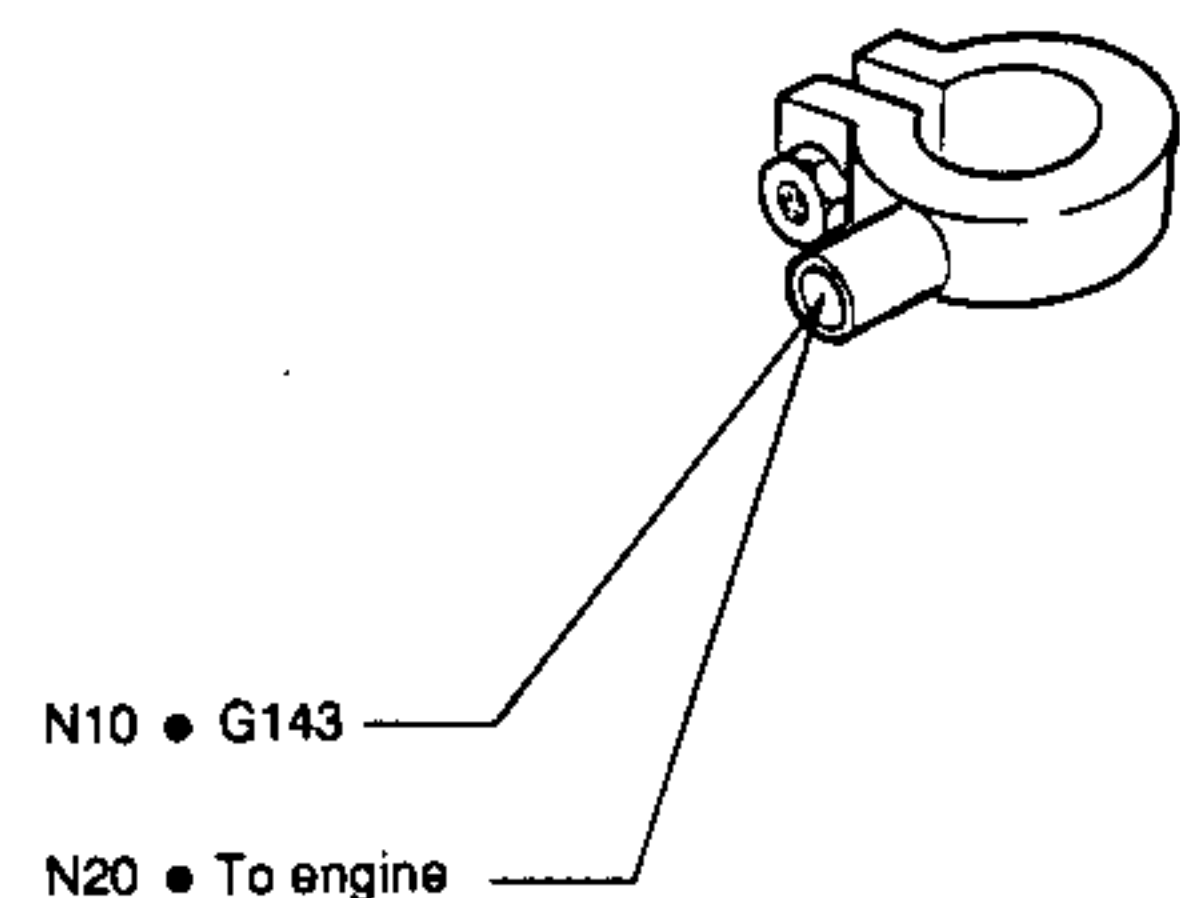
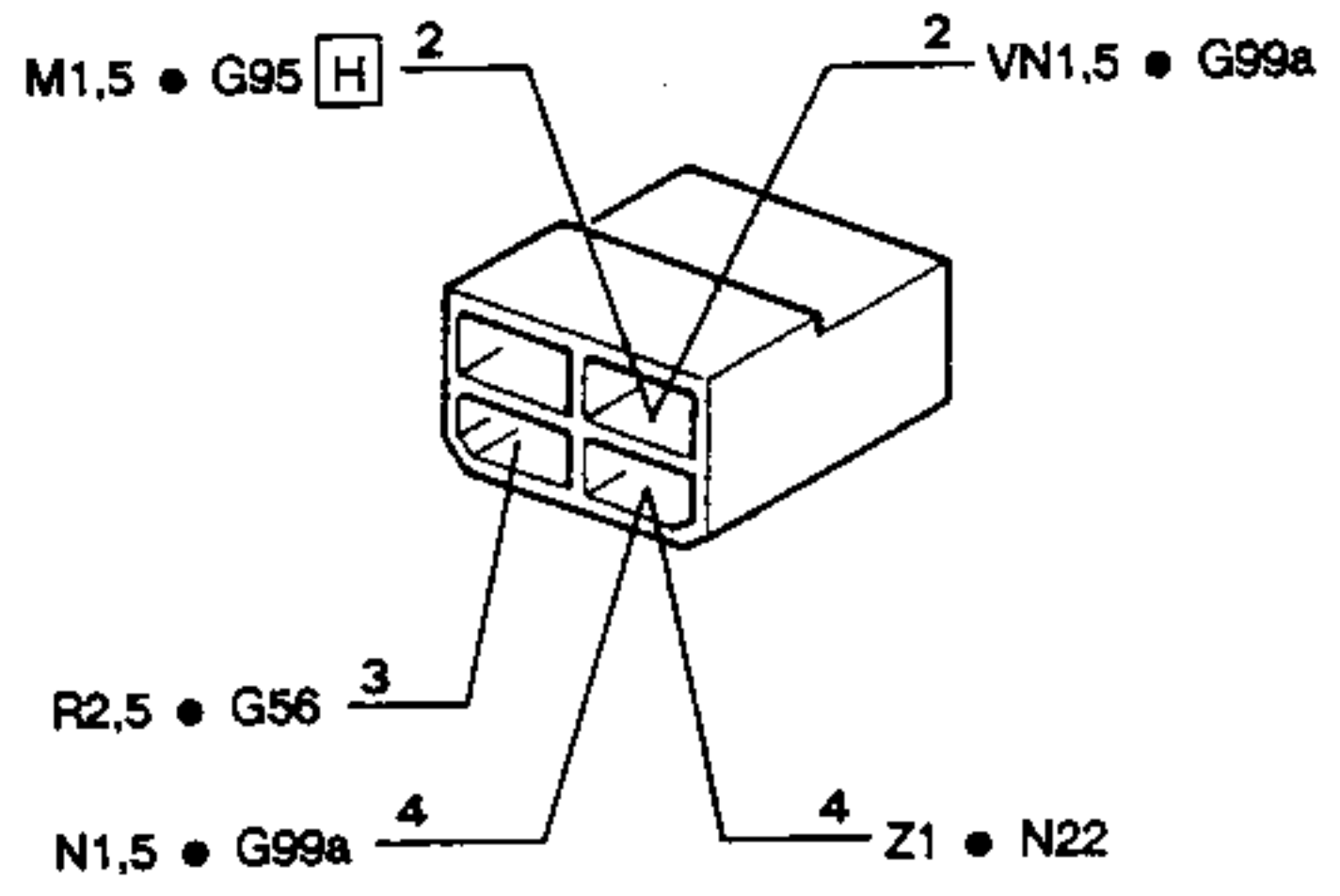
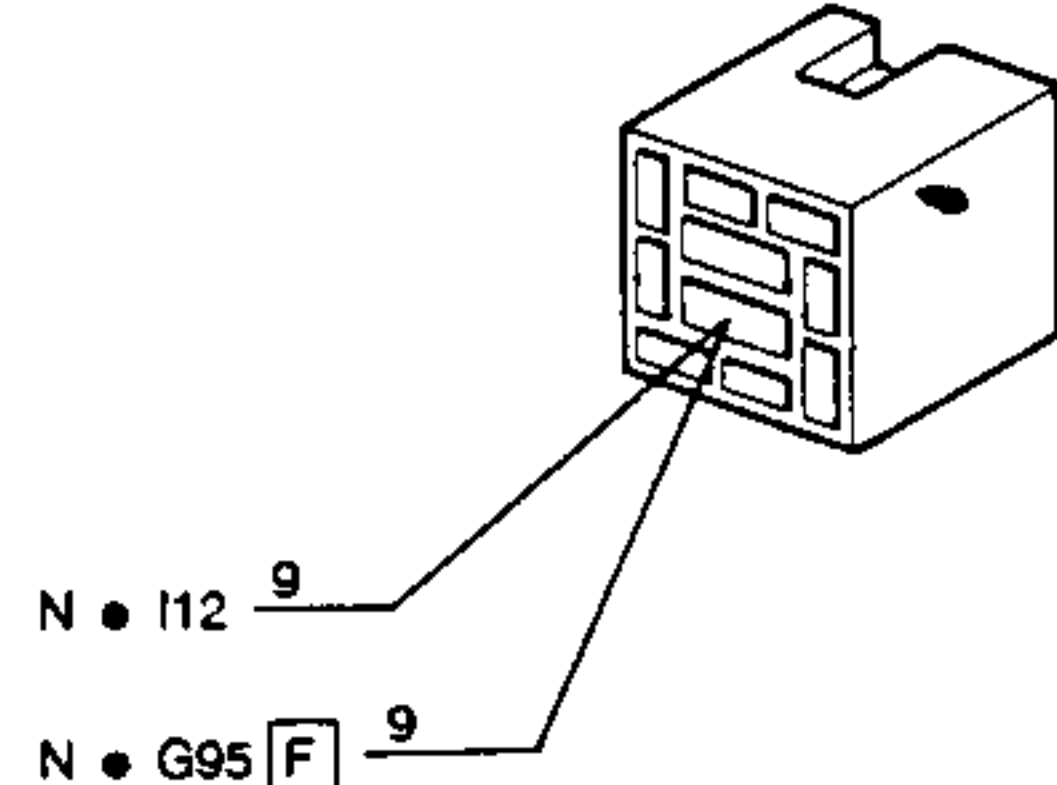
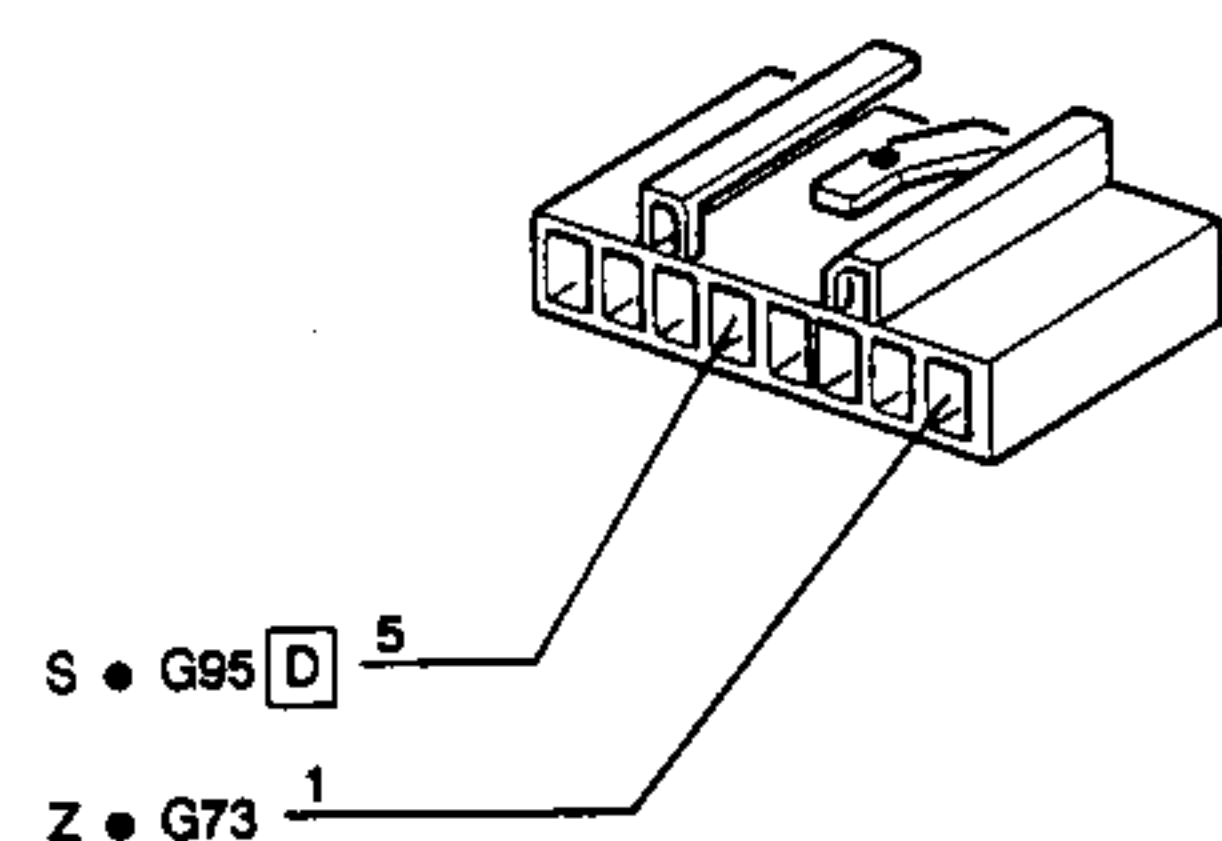
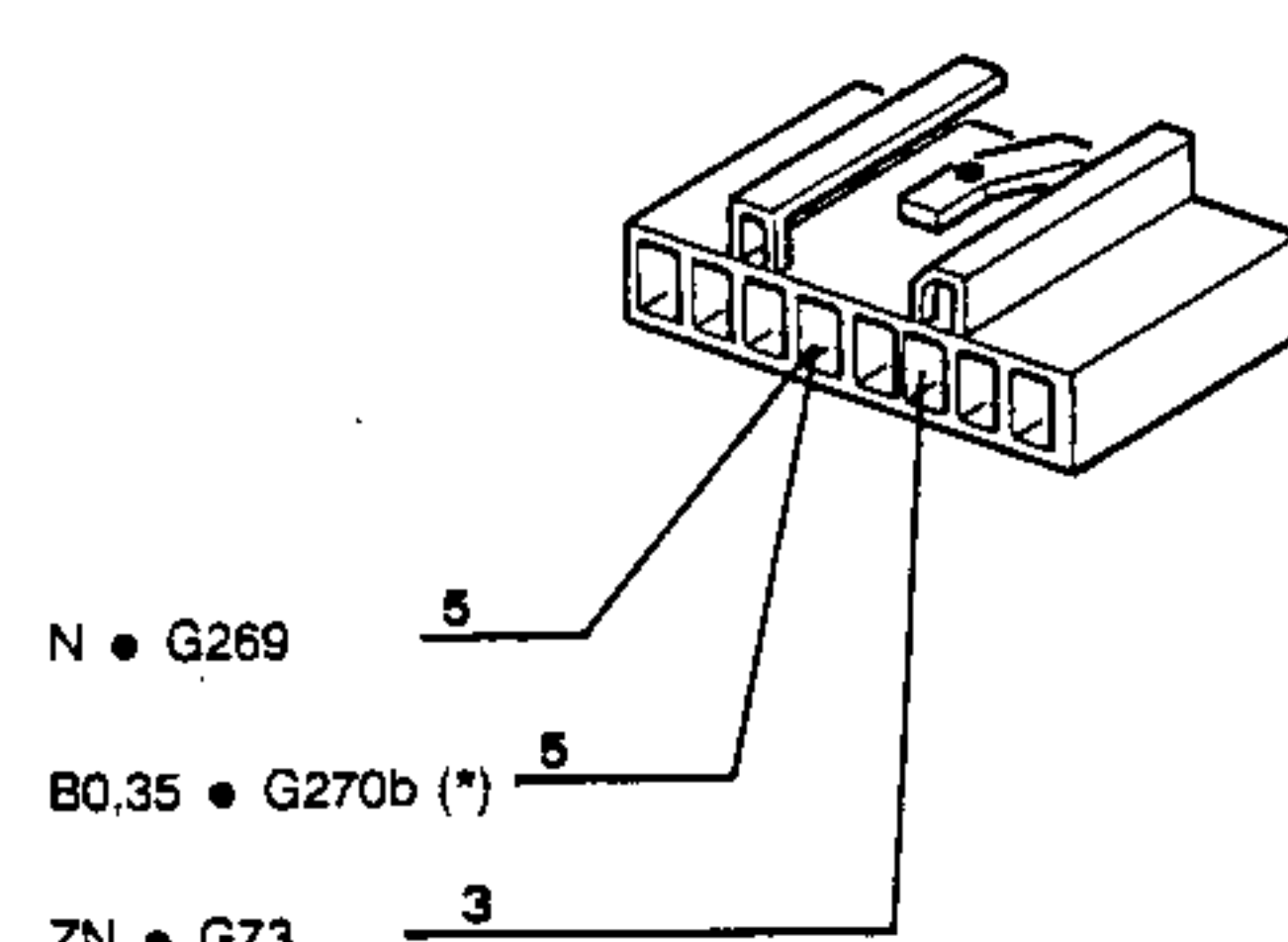
## Wiring



- (1) Specific to versions 4x2
- (2) Specific to versions 4x4

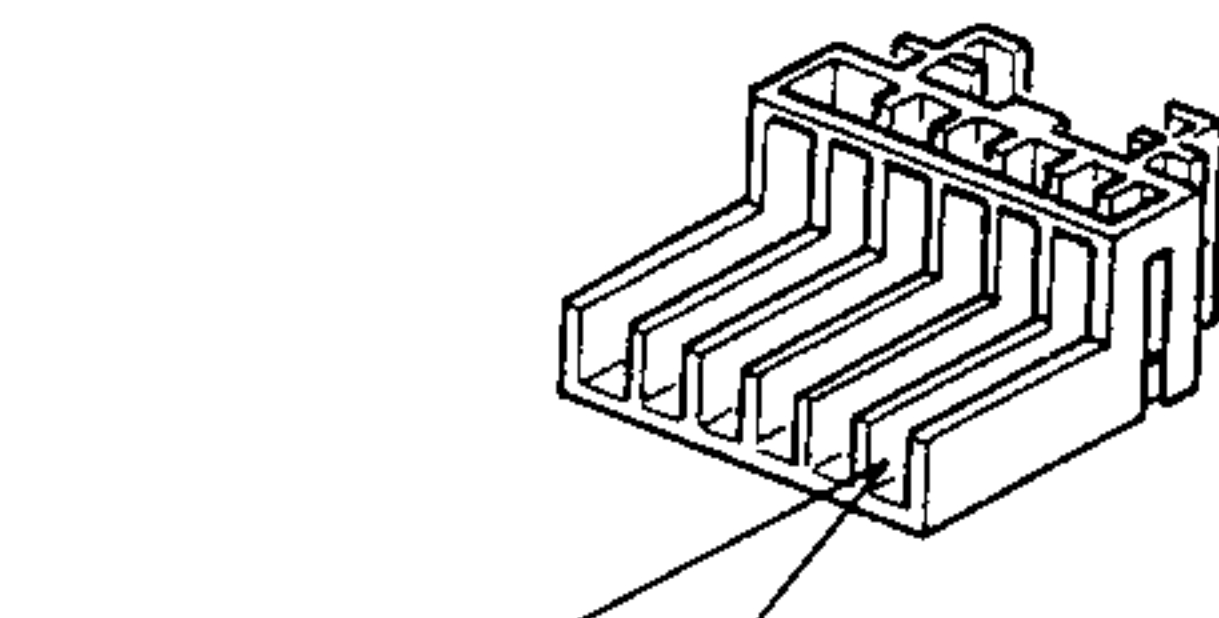
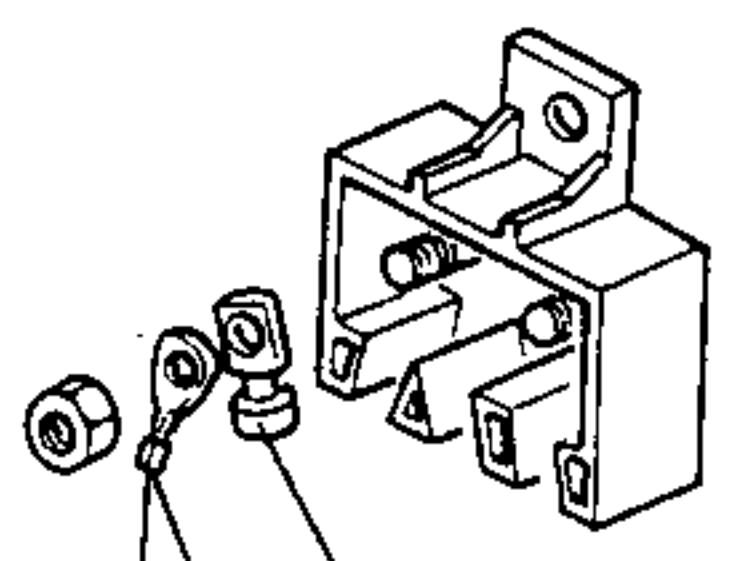
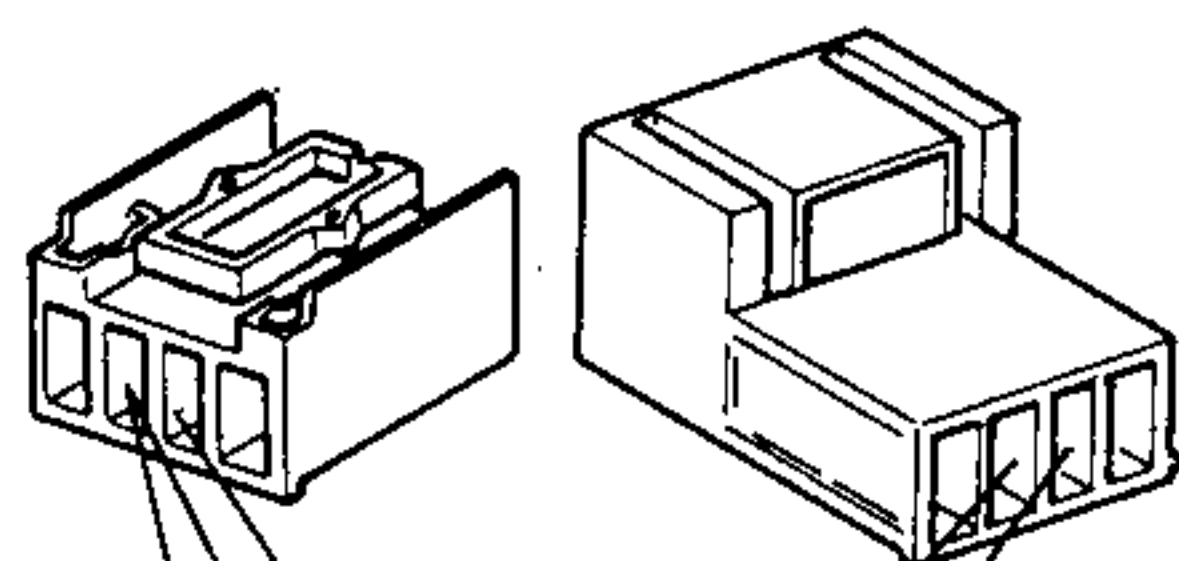
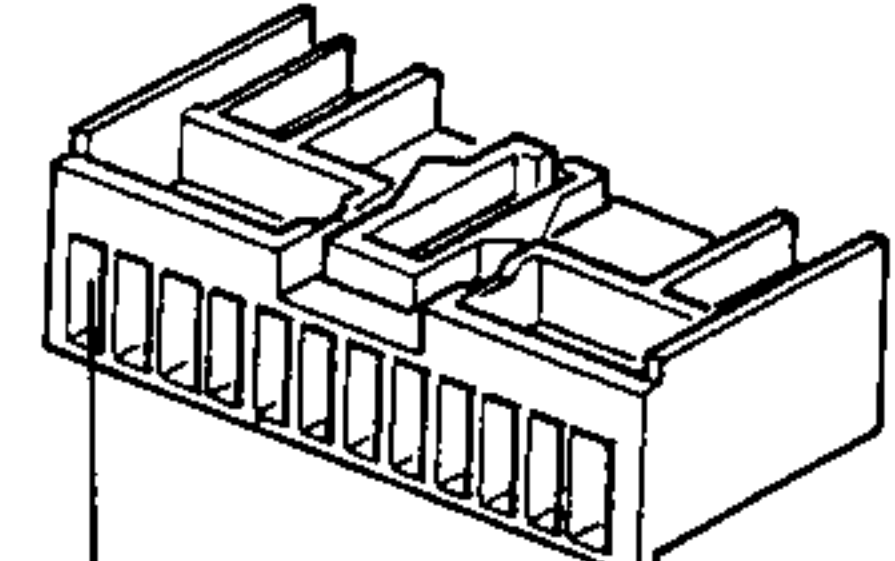
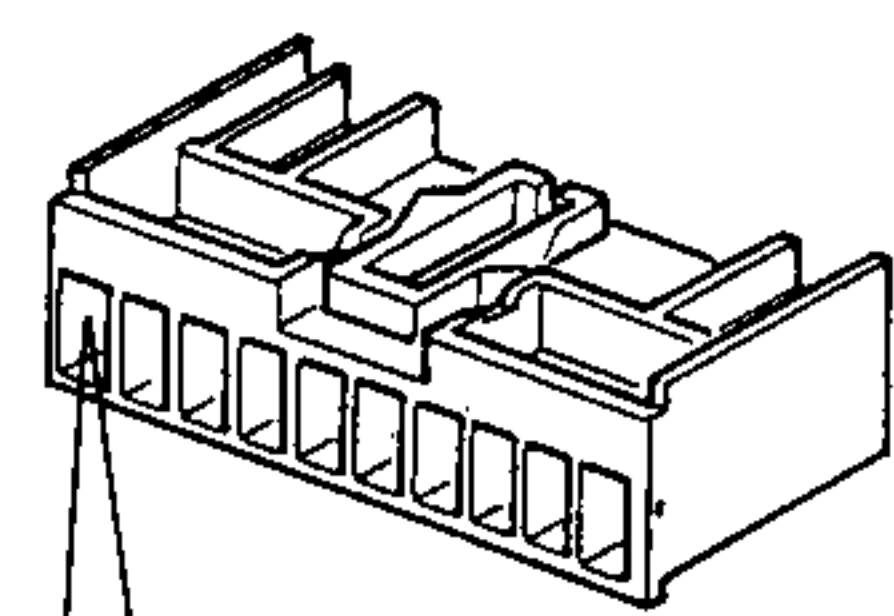
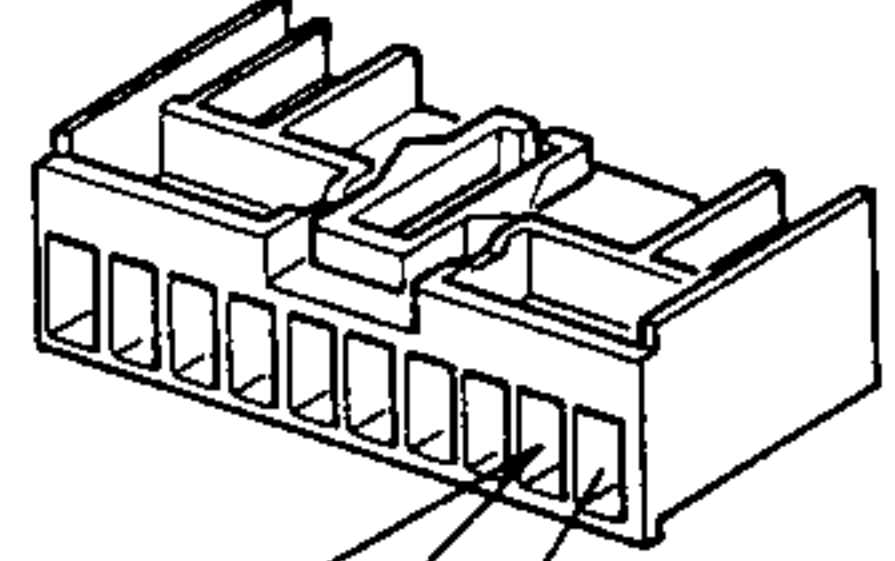
# ELECTRICAL SYSTEM

## Connectors

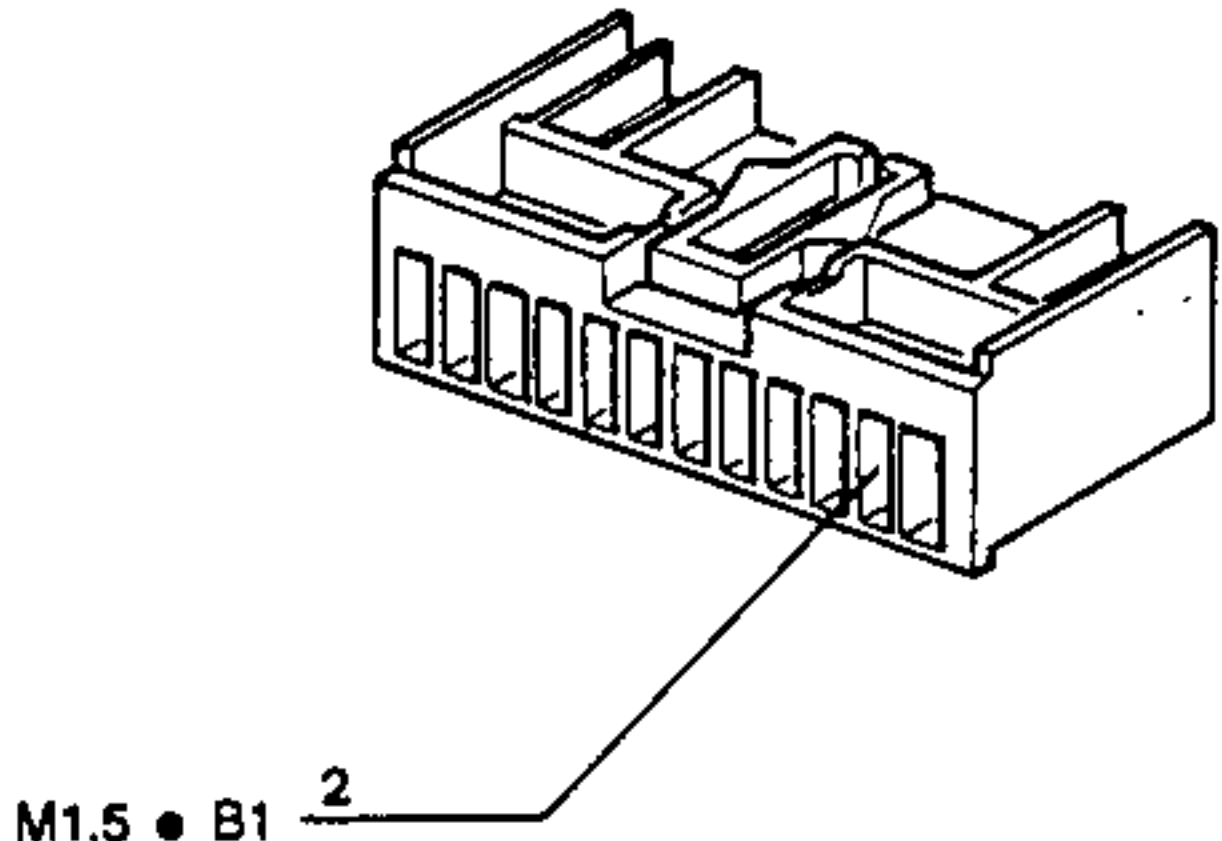
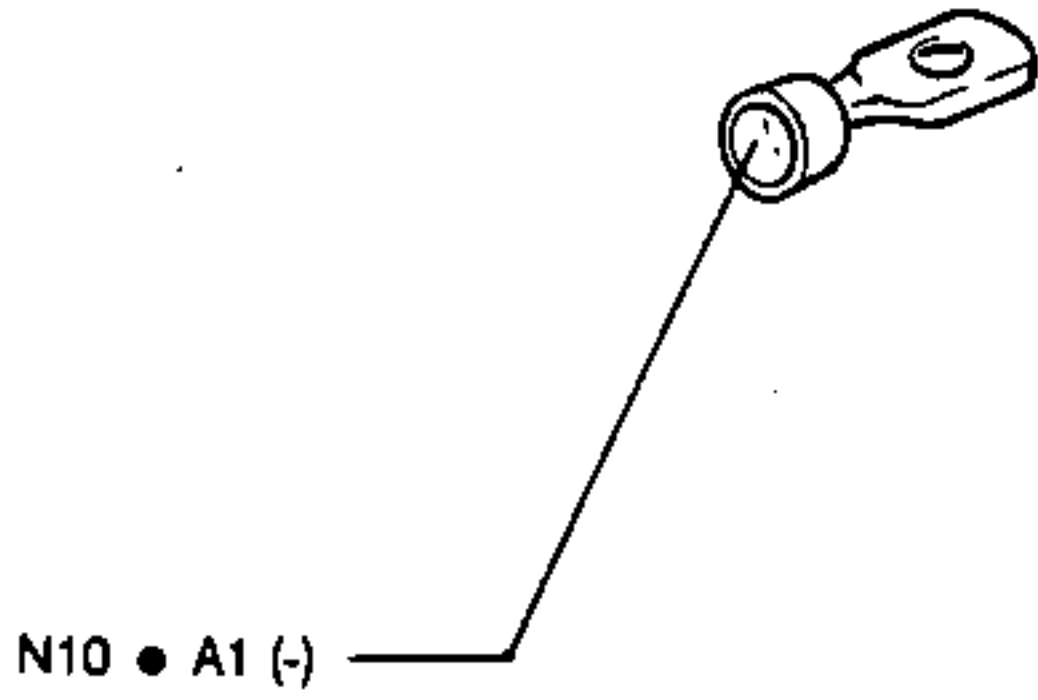
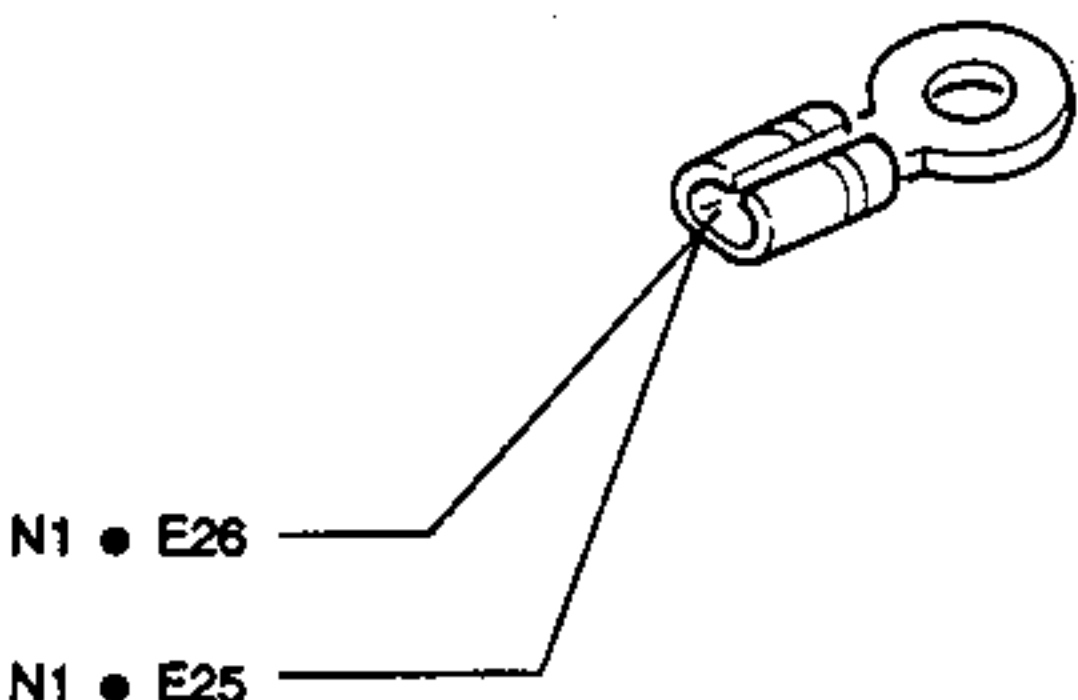
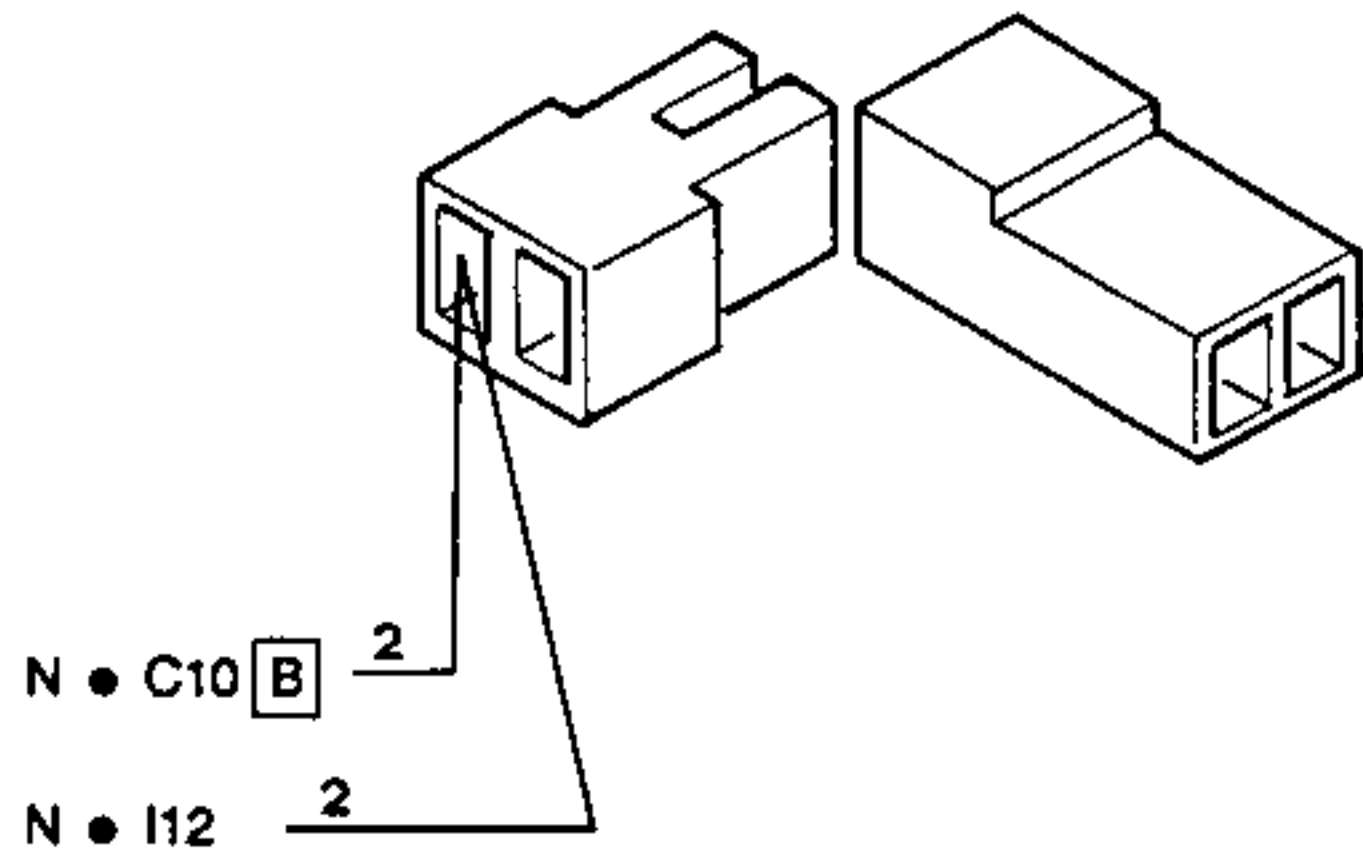
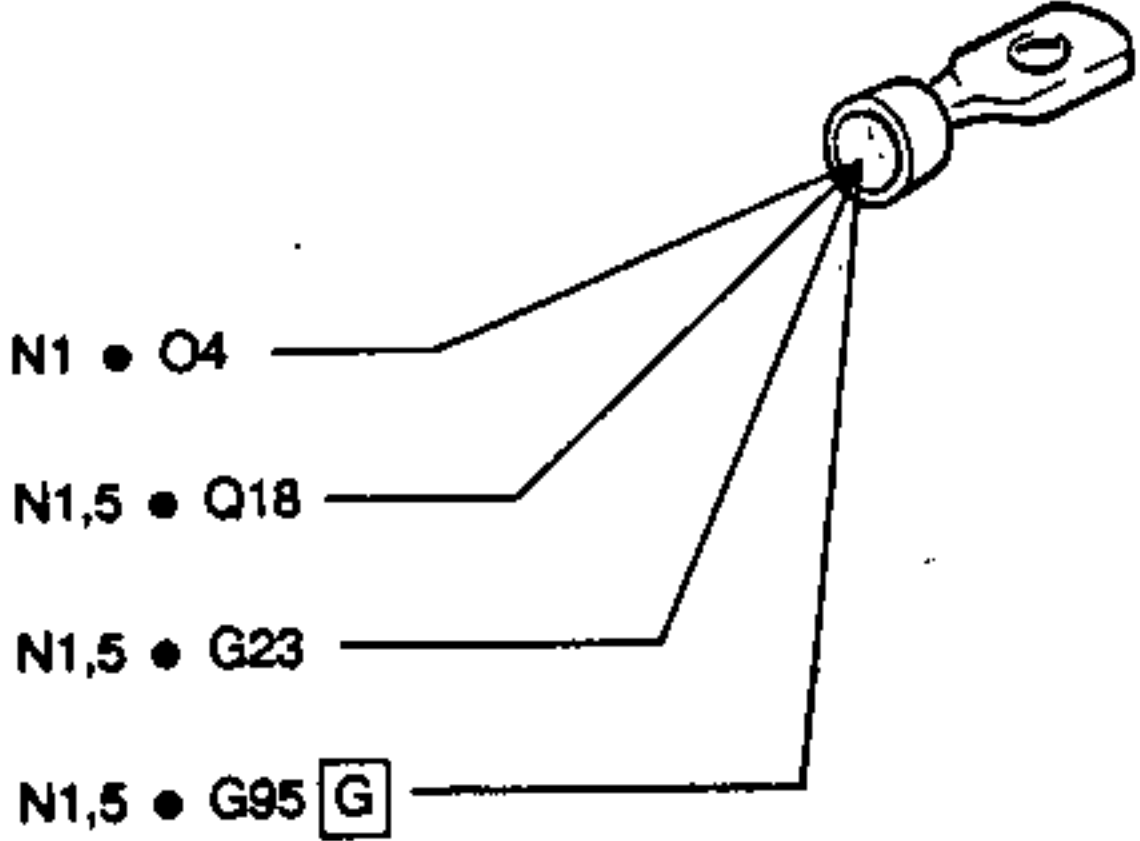
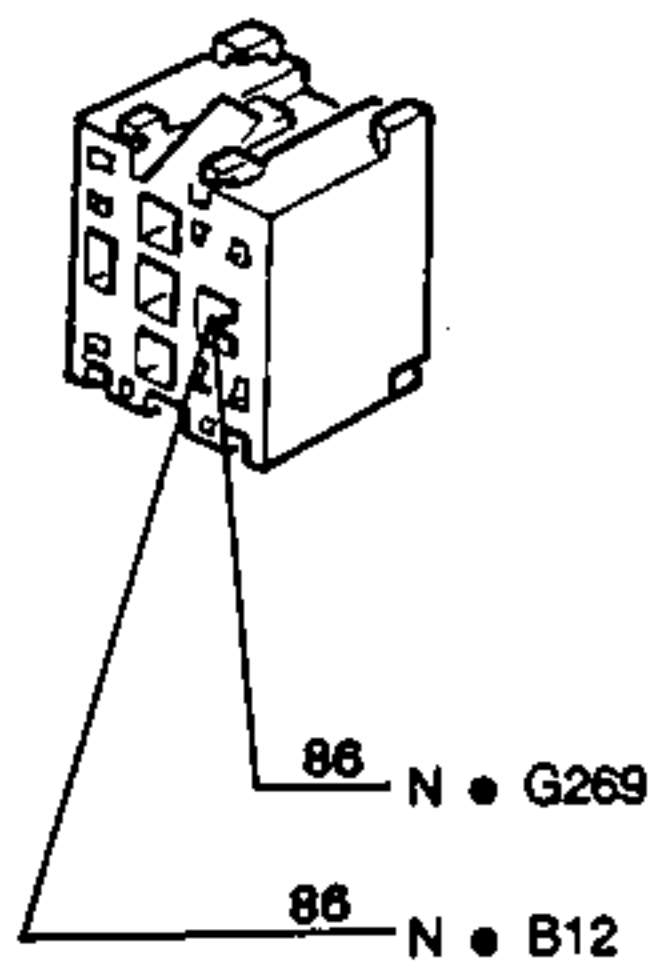
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Hazard warning lights control switch	B12
 <p>M1,5 • G95 [H] 2      2 VN1,5 • G99a R2,5 • G56 3 N1,5 • G99a 4      4 Z1 • N22</p>	33.90.028	 <p>N • I12 9 N • G95 [F] 9</p>	33.90.008
Instrument panel	C10 A	Instrument panel	C10 B
 <p>S • G95 [D] 5 Z • G73 1</p>	33.90.024	 <p>N • G269 5 B0,35 • G270b (*) 5 ZN • G73 3</p>	33.90.024

(\*) Specific to 4 x 4 version

ELECTRICAL SYSTEM

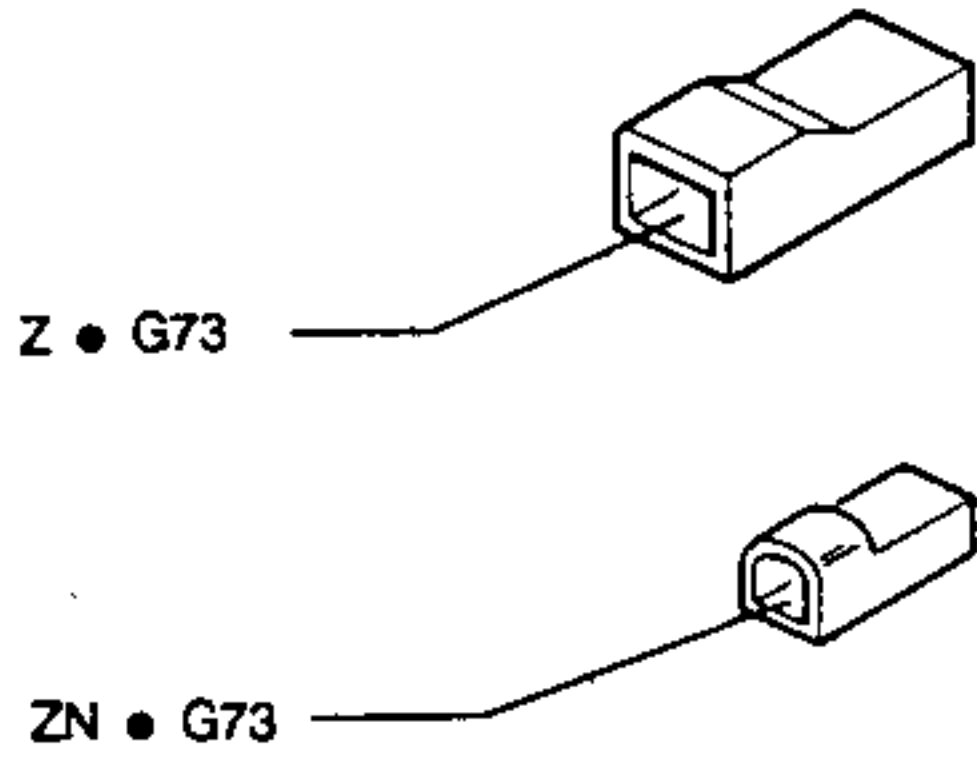
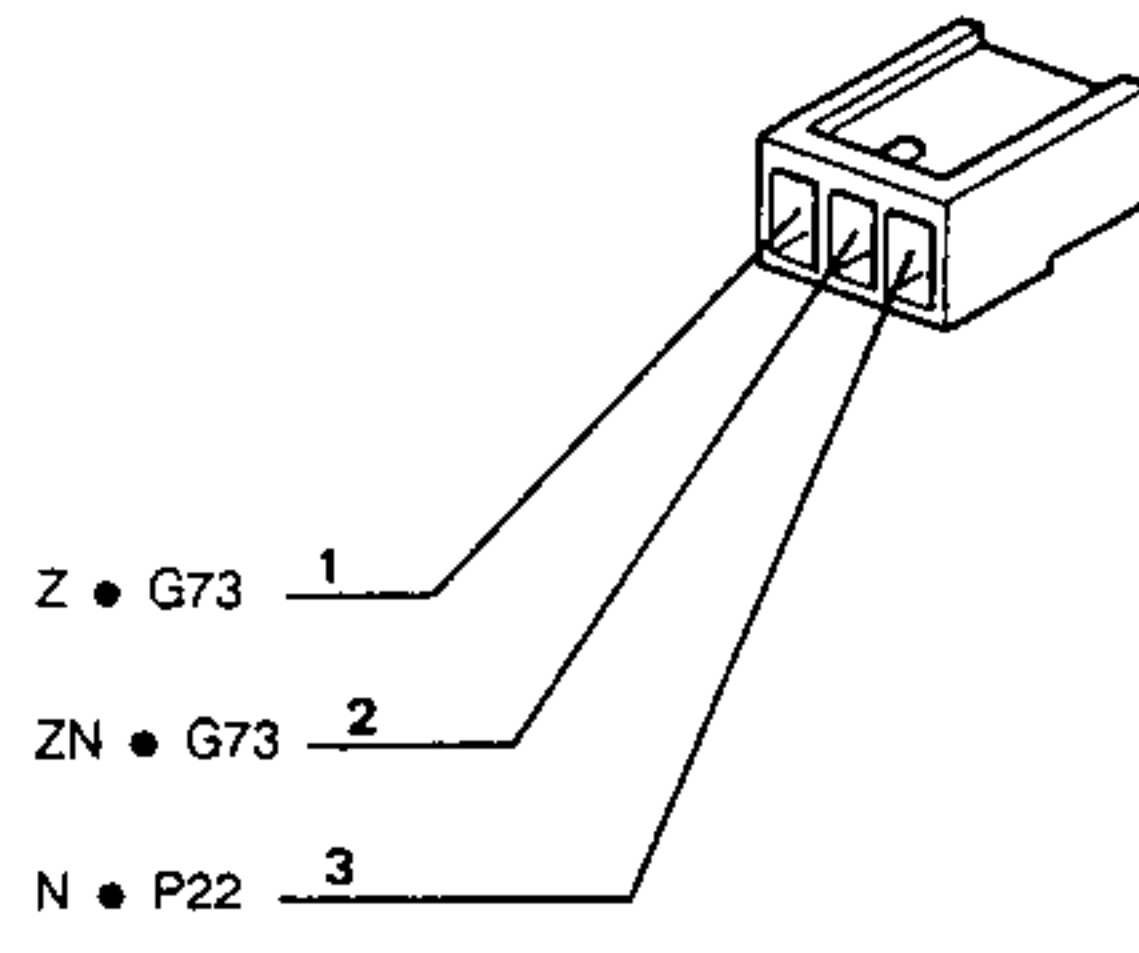
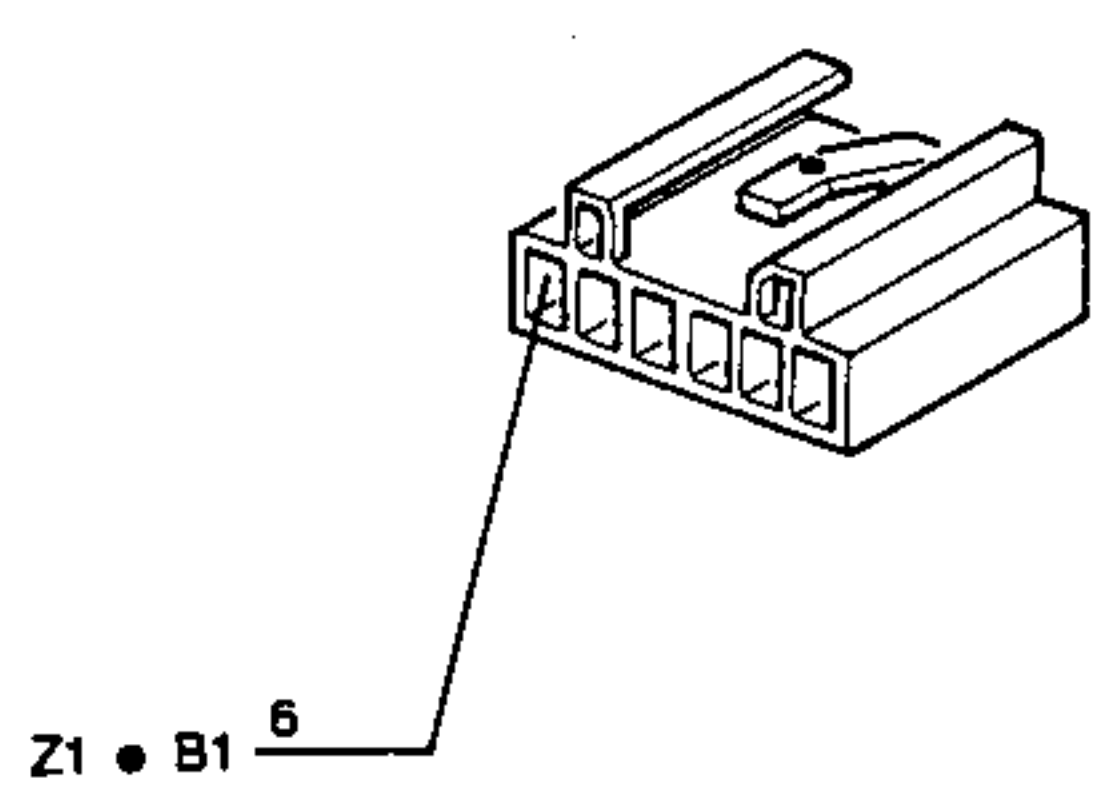
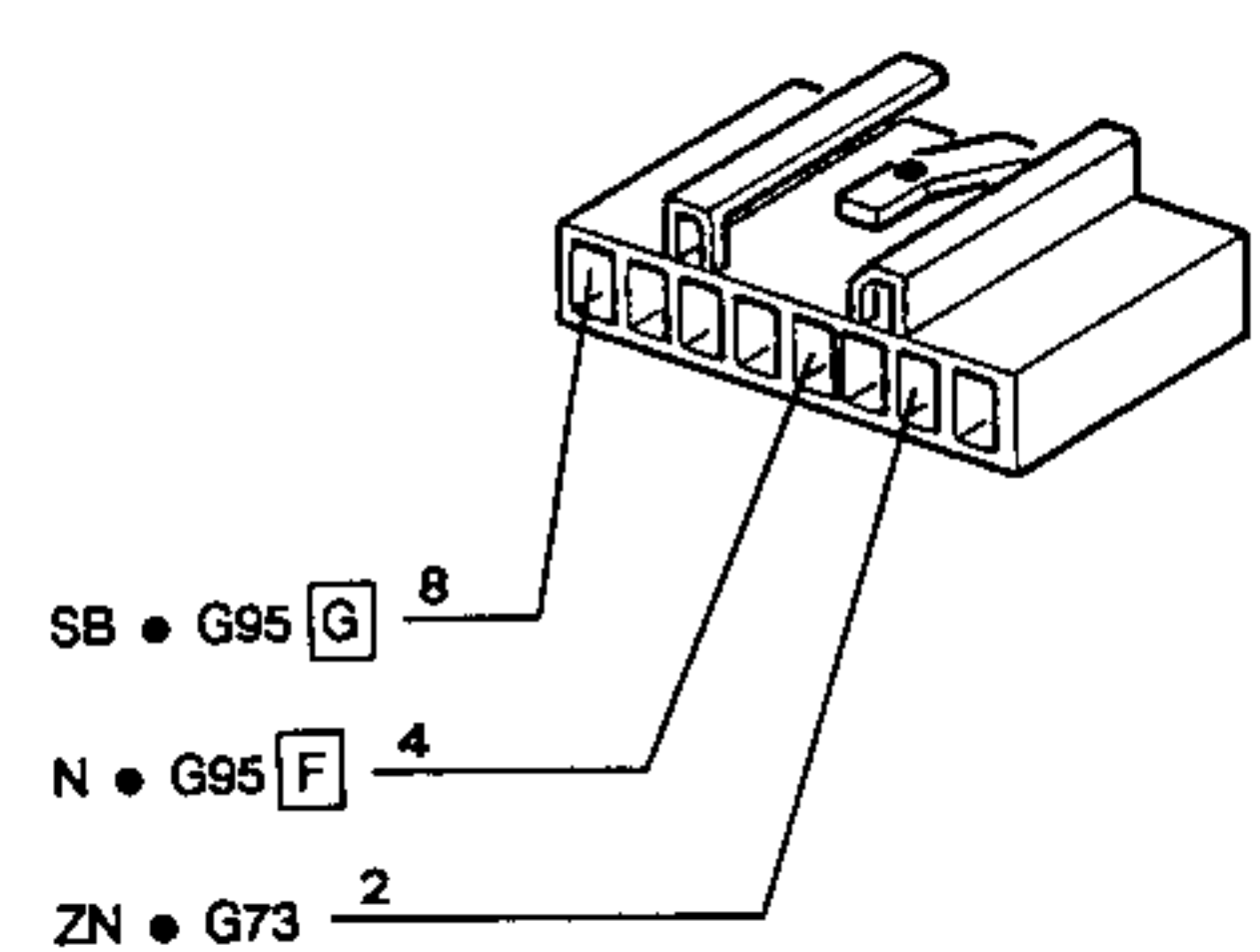
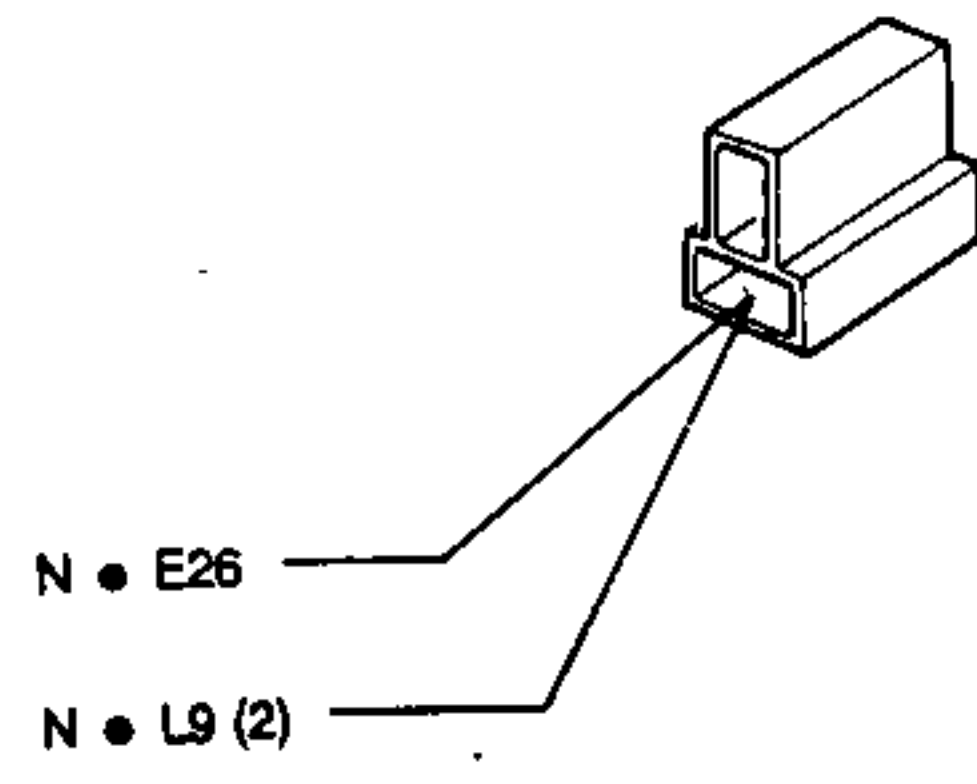
<p>Left tail light</p>	<p>E26</p>	<p>Branch terminal board</p>	<p>G56</p>
 <p>N • P22 <u>6</u></p> <p>N1 • G185 <u>6</u></p> <p style="text-align: right;">33.90.033</p>	 <p>R2,5 • B1</p> <p>R2,5 • B68 <u>A</u></p> <p>R10 • A1 (+)</p> <p style="text-align: right;">33.90.066</p>		
<p>Connector for rear services</p>	<p>G73</p>	<p>Central fusebox</p>	<p>G95 <u>D</u></p>
 <p>ZN • C10 <u>B</u> <u>3</u></p> <p>ZN • N22 <u>B</u> <u>3</u></p> <p>Z • C10 <u>A</u> <u>2</u></p> <p>ZN • L9 <u>3</u></p> <p>Z • L9 <u>2</u></p> <p style="text-align: right;">33.90.018</p>	 <p>S • C10 <u>A</u> <u>12</u></p> <p style="text-align: right;">33.90.004</p>		
<p>Central fusebox</p>	<p>G95 <u>F</u></p>	<p>Central fusebox</p>	<p>G95 <u>G</u></p>
 <p>N • N22 <u>B</u> <u>10</u></p> <p>N • B12 <u>10</u></p> <p style="text-align: right;">33.90.005</p>	 <p>SB1 • B9 <u>2</u></p> <p>SB • N22 <u>B</u> <u>2</u></p> <p>N1,5 • G283 <u>1</u></p> <p style="text-align: right;">33.90.005</p>		

# ELECTRICAL SYSTEM

<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95</b> <span style="border: 1px solid black; padding: 0 2px;">H</span></p>  <p style="text-align: right;">33.90.004</p>	<p><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>  <p style="text-align: right;">33.90.001</p>
<p><b>Luggage compartment earth - left side</b></p> <p style="text-align: right;"><b>G185</b></p>  <p style="text-align: right;">33.90.032</p>	<p><b>Glove compartment lamp connection</b></p> <p style="text-align: right;"><b>G269</b></p>  <p style="text-align: right;">33.90.013</p>
<p><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>  <p style="text-align: right;">33.90.001</p>	<p><b>Front power window relay</b></p> <p style="text-align: right;"><b>I12</b></p>  <p style="text-align: right;">33.90.007</p>



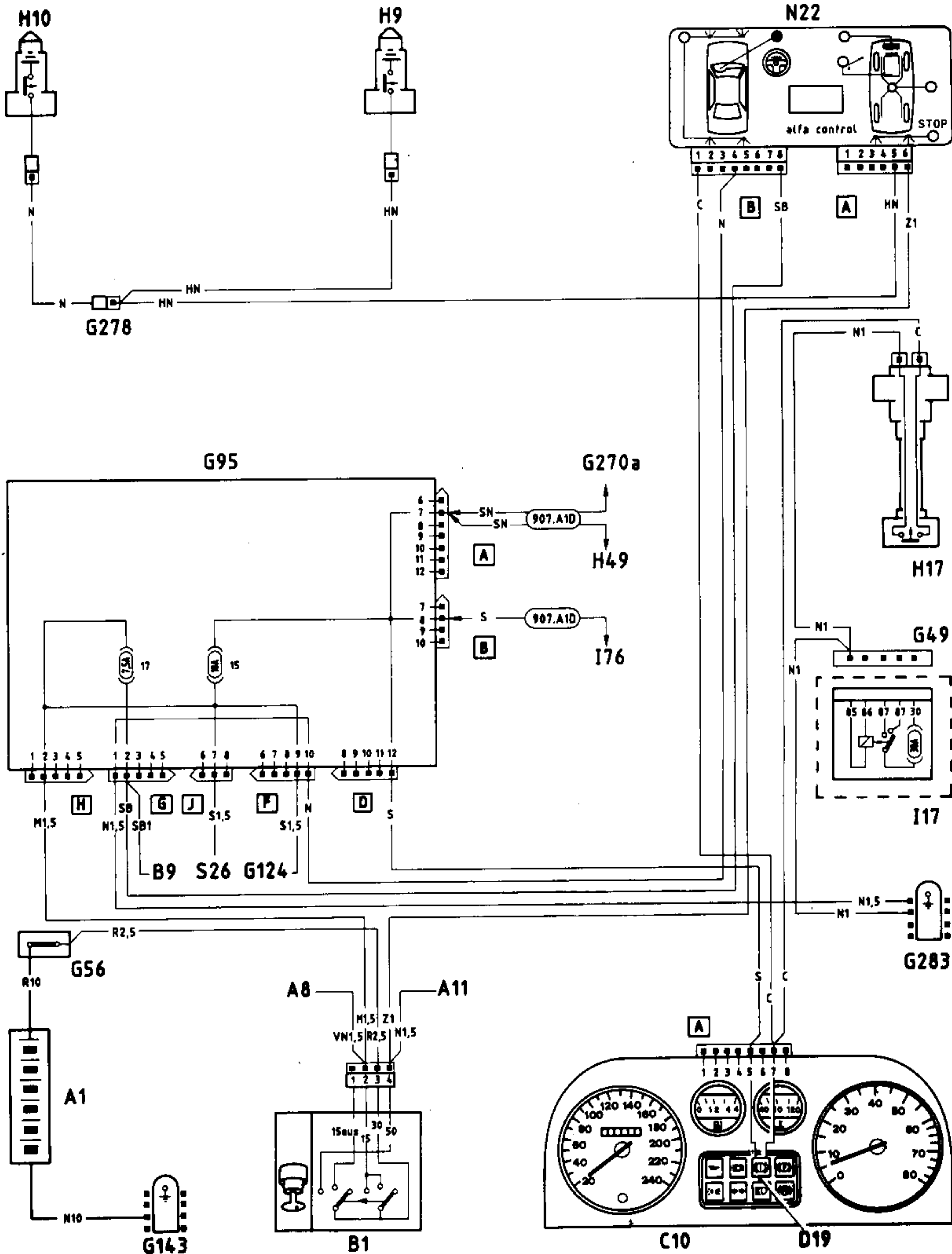
# ELECTRICAL SYSTEM

Fuel level gauge sender (1)	L9	Fuel level gauge sender (2)	L9
 <p>Z • G73</p> <p>ZN • G73</p> <p style="text-align: right;">33.90.015 - 33.90.041</p>		 <p>Z • G73 1</p> <p>ZN • G73 2</p> <p>N • P22 3</p> <p style="text-align: right;">33.90.069</p>	
ALFA ROMEO Control - control unit	N22 A	ALFA ROMEO Control - control unit	N22 B
 <p>Z1 • B1 6</p> <p style="text-align: right;">33.90.034</p>		 <p>SB • G95 <span style="border: 1px solid black; padding: 0 2px;">G</span> 8</p> <p>N • G95 <span style="border: 1px solid black; padding: 0 2px;">F</span> 4</p> <p>ZN • G73 2</p> <p style="text-align: right;">33.90.024</p>	
Rear window washer pump	P22		
 <p>N • E26</p> <p>N • L9 (2)</p> <p style="text-align: right;">33.90.020</p>		<p>(1) Specific to 4 x 2 versions</p> <p>(2) Specific to 4 x 4 versions</p>	

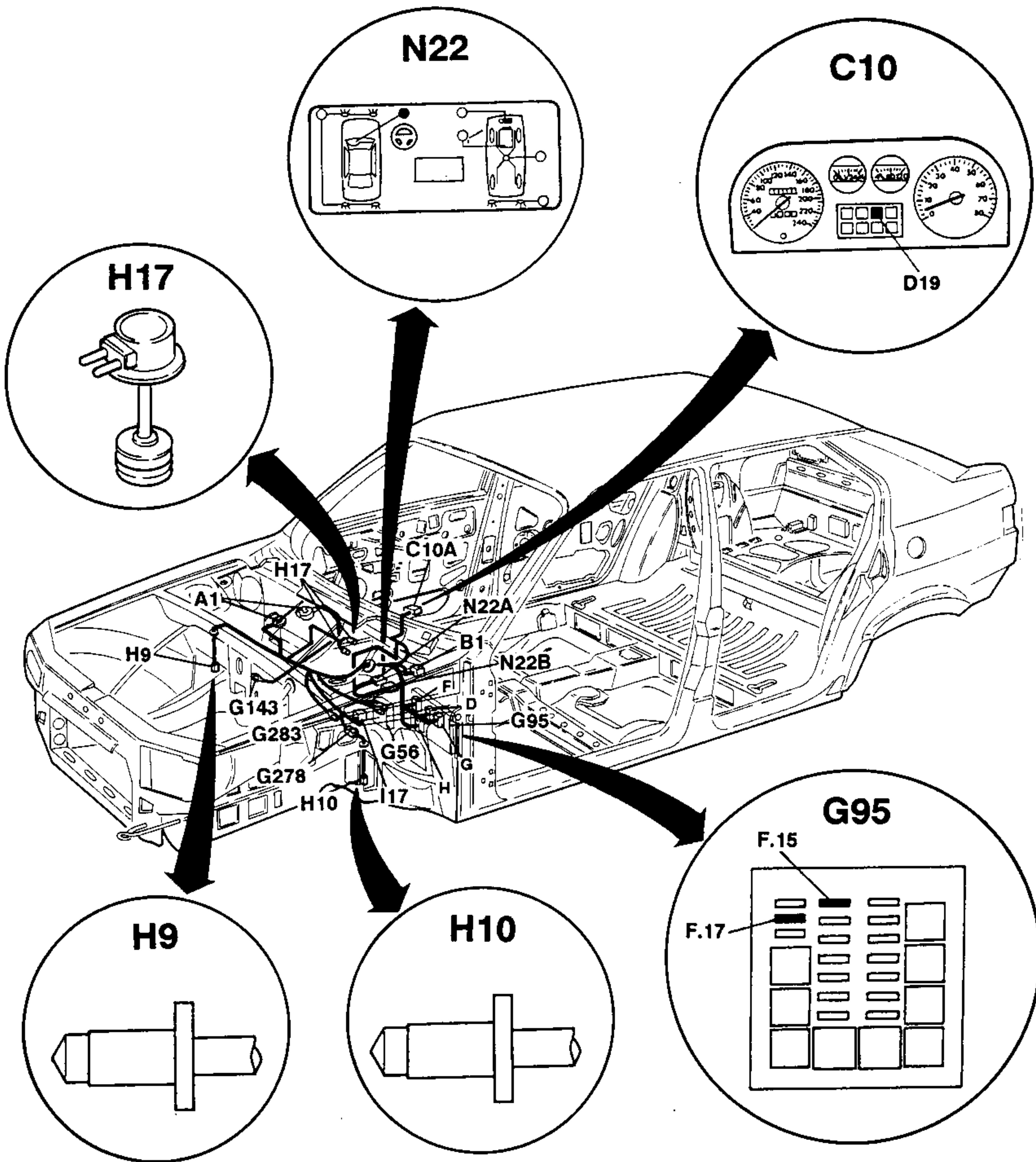
# ELECTRICAL SYSTEM

## BRAKE PAD WEAR - BRAKE AND CLUTCH FLUID LEVEL

### Wiring diagram

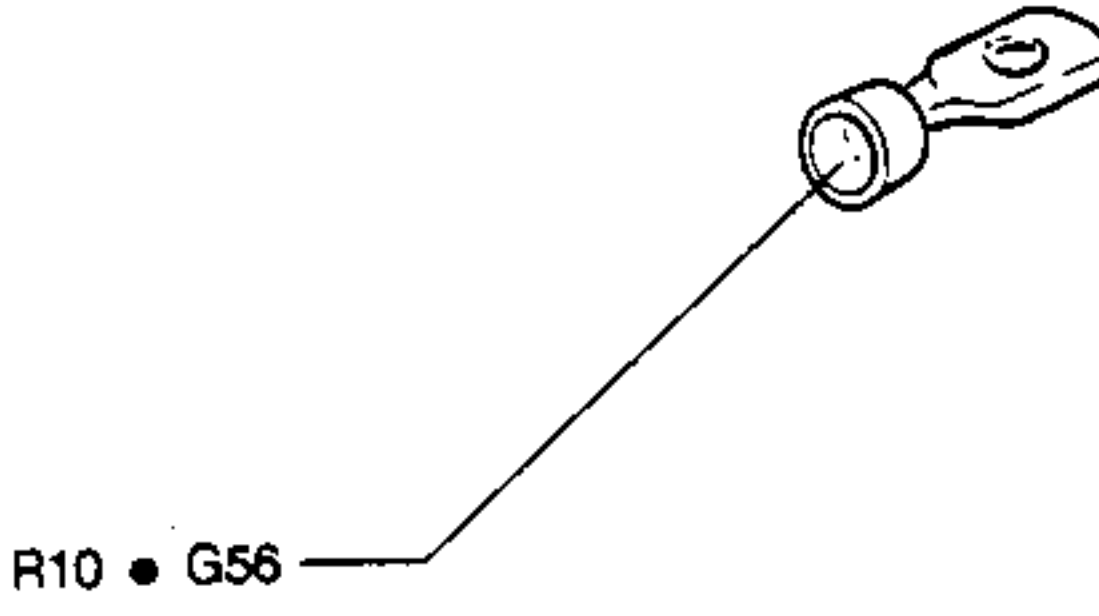
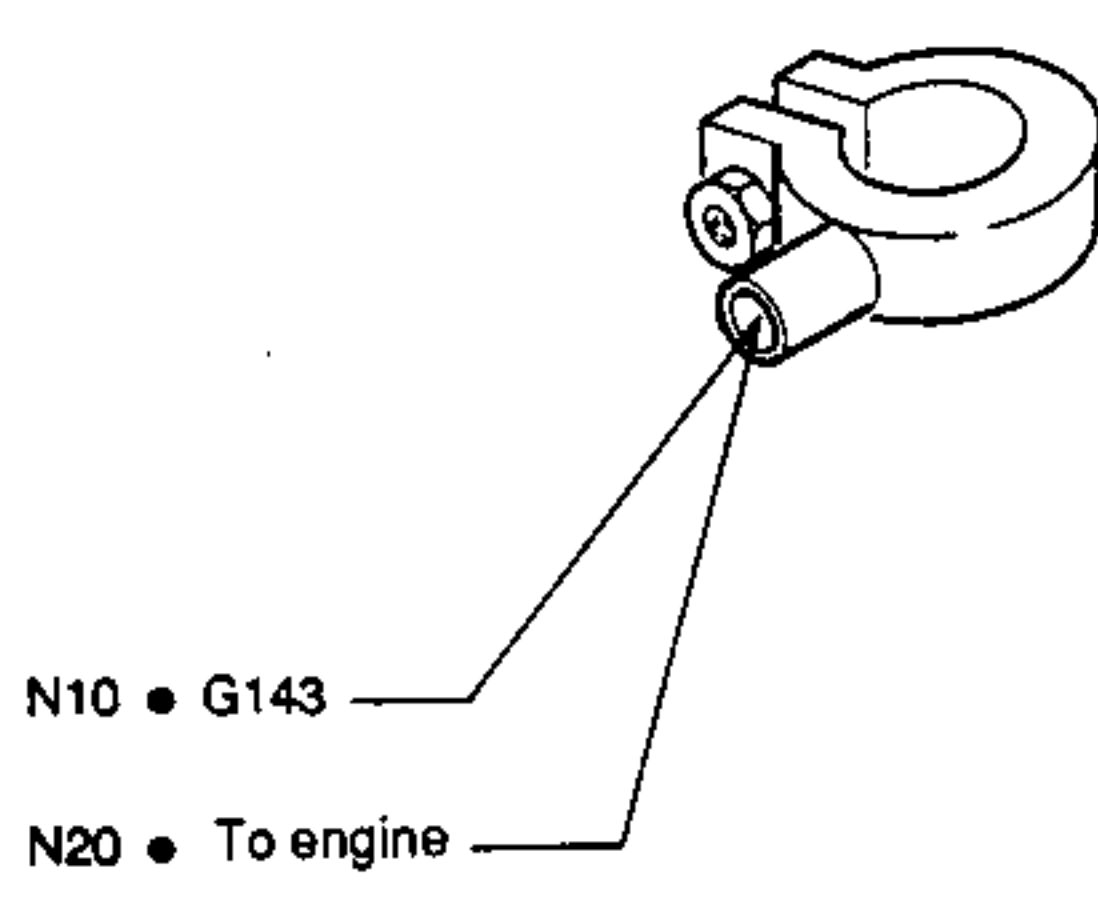
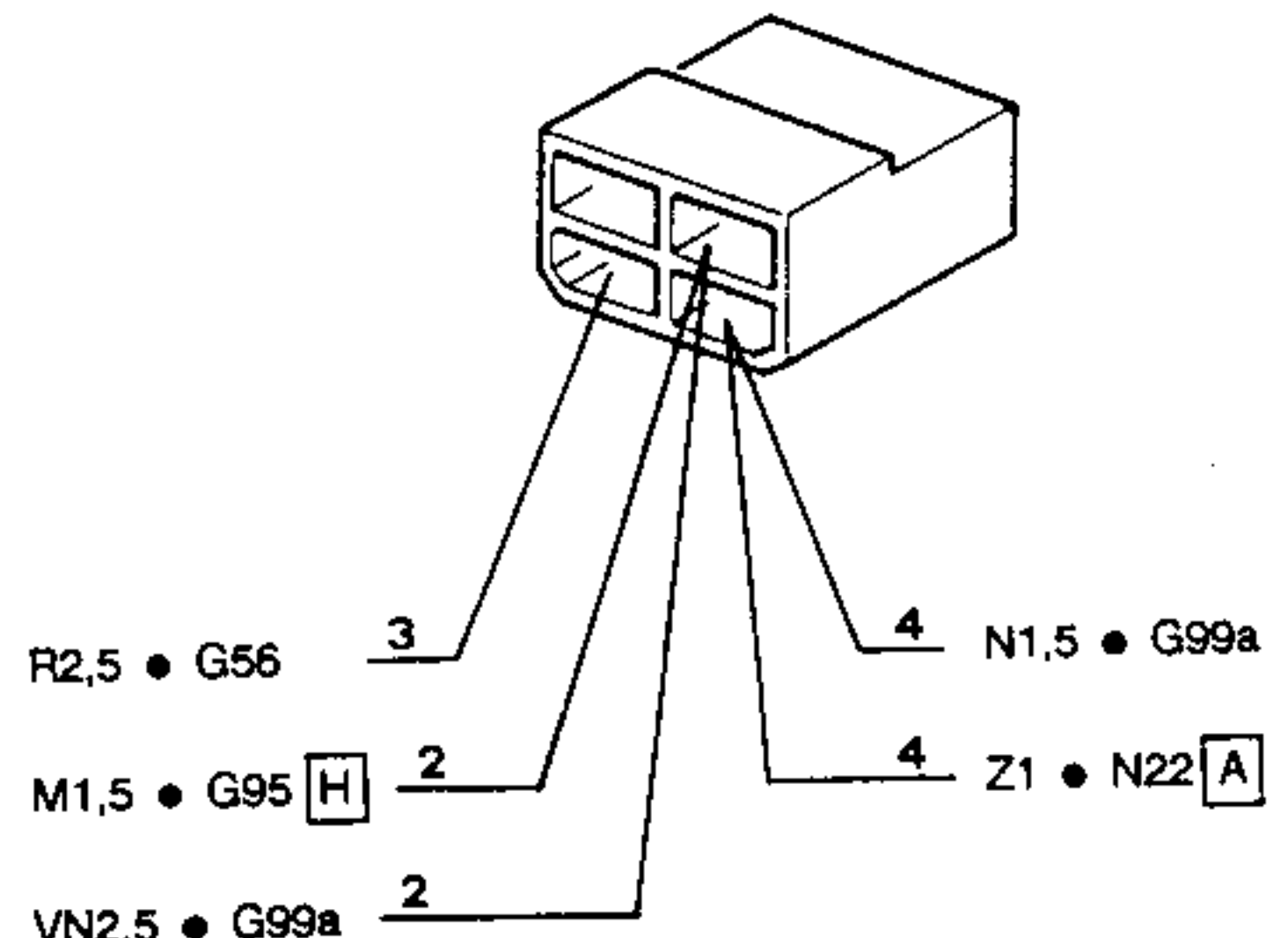
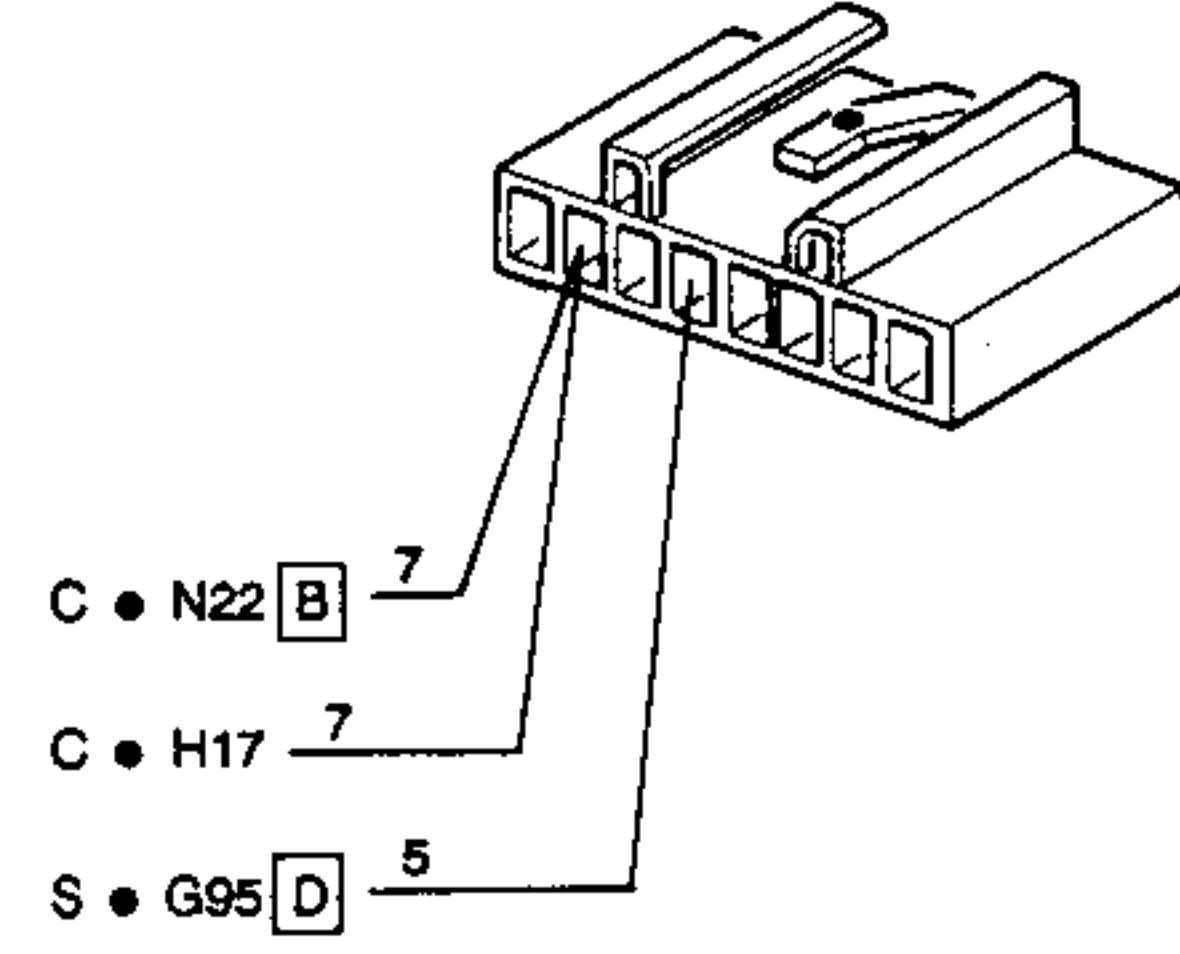
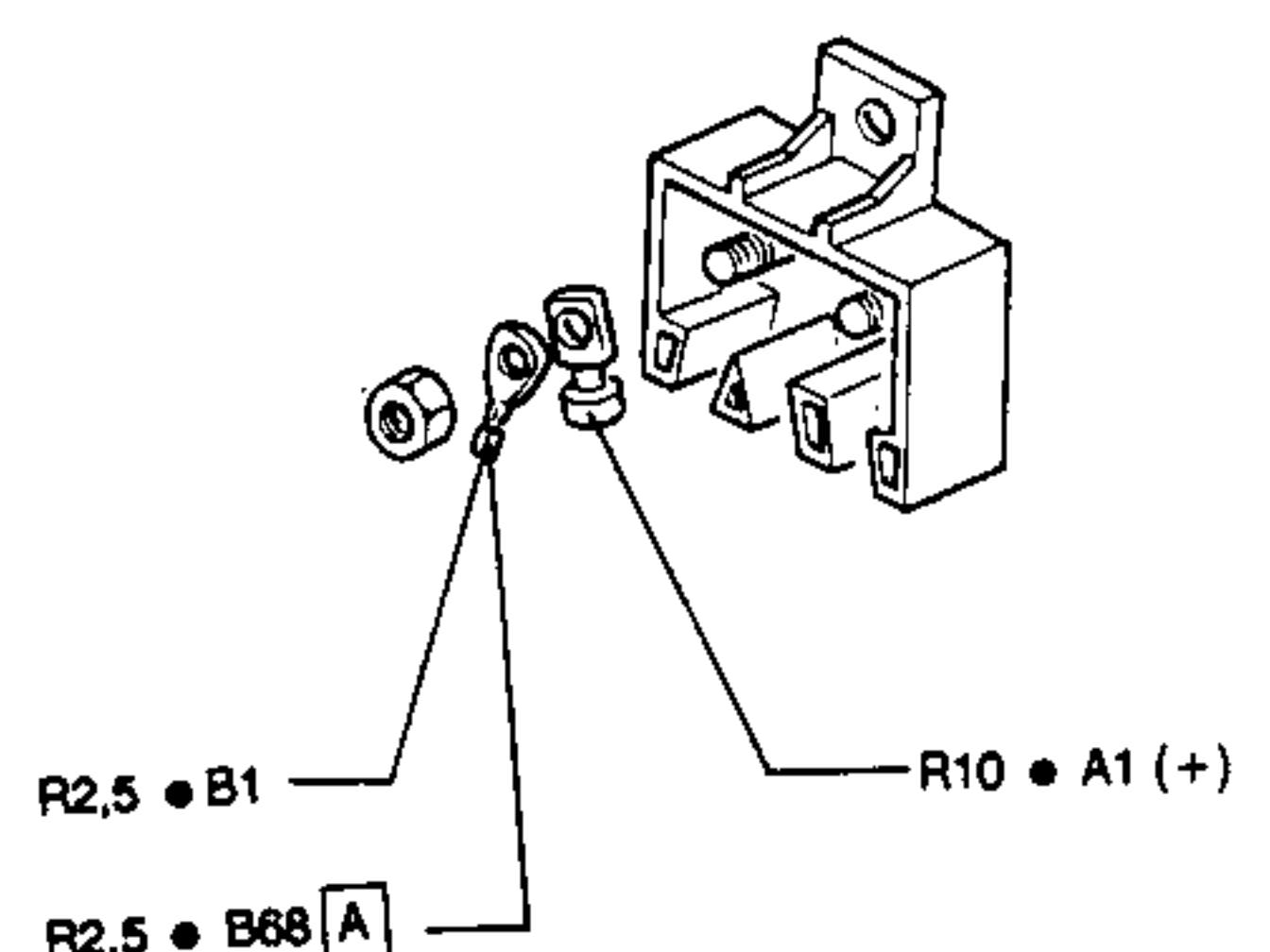
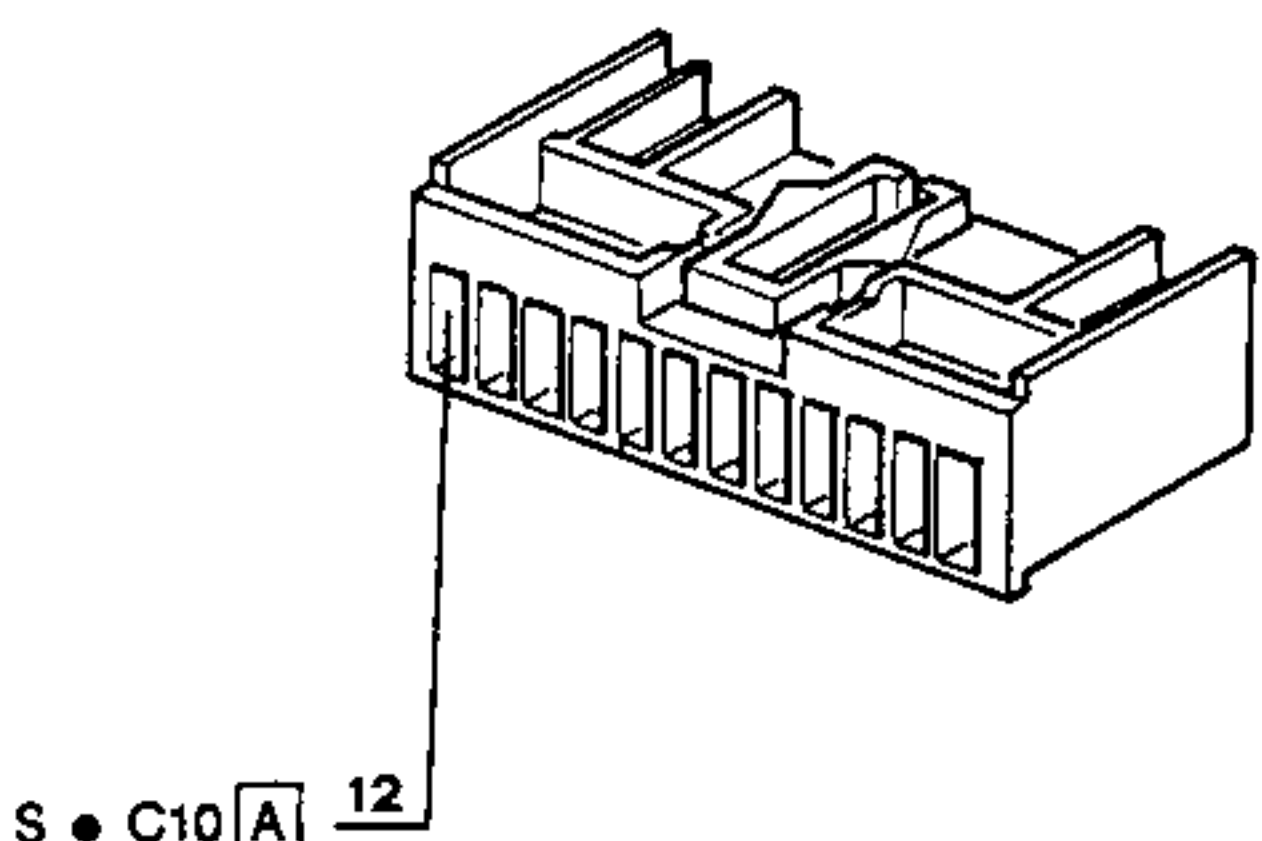


Wiring

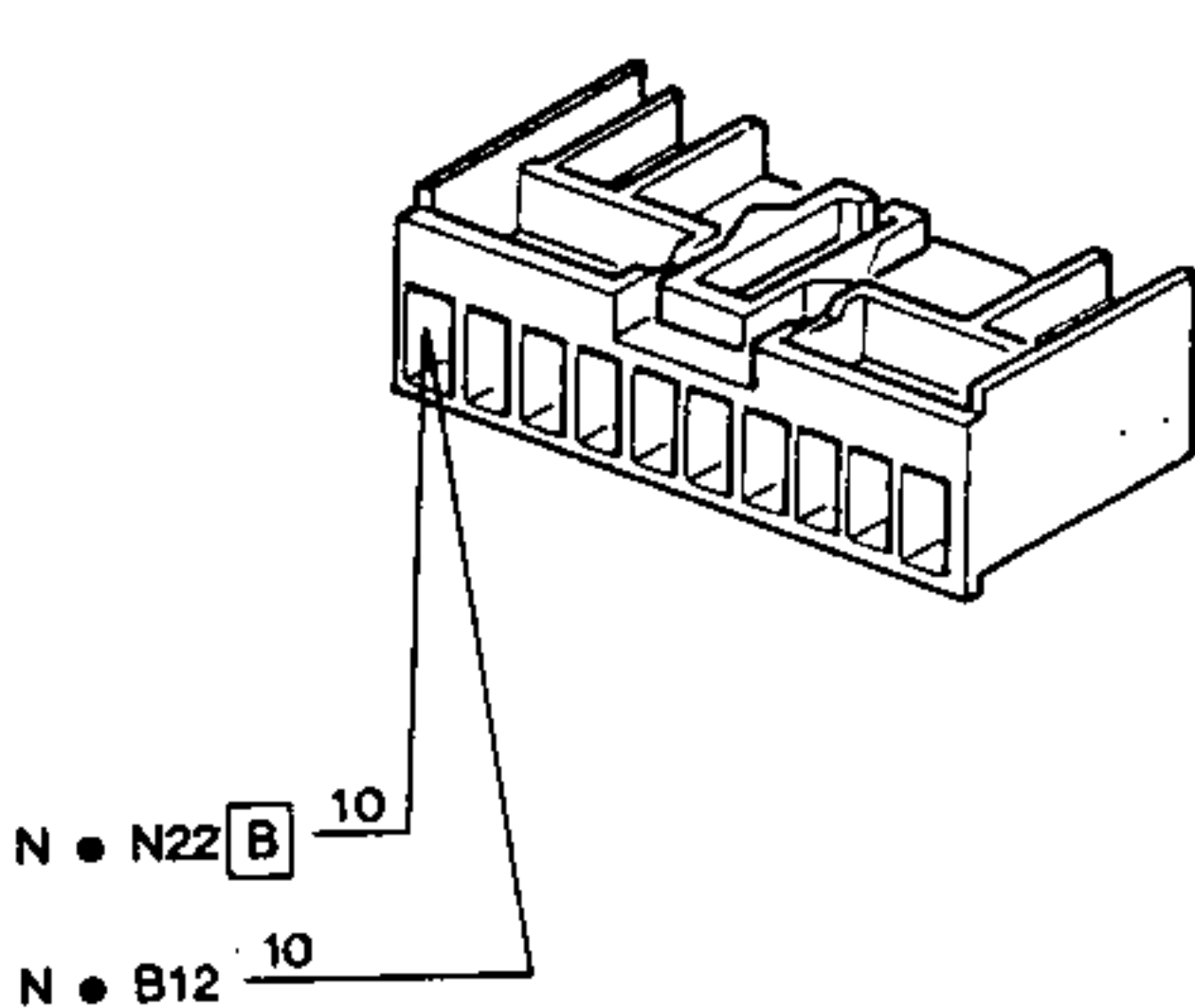
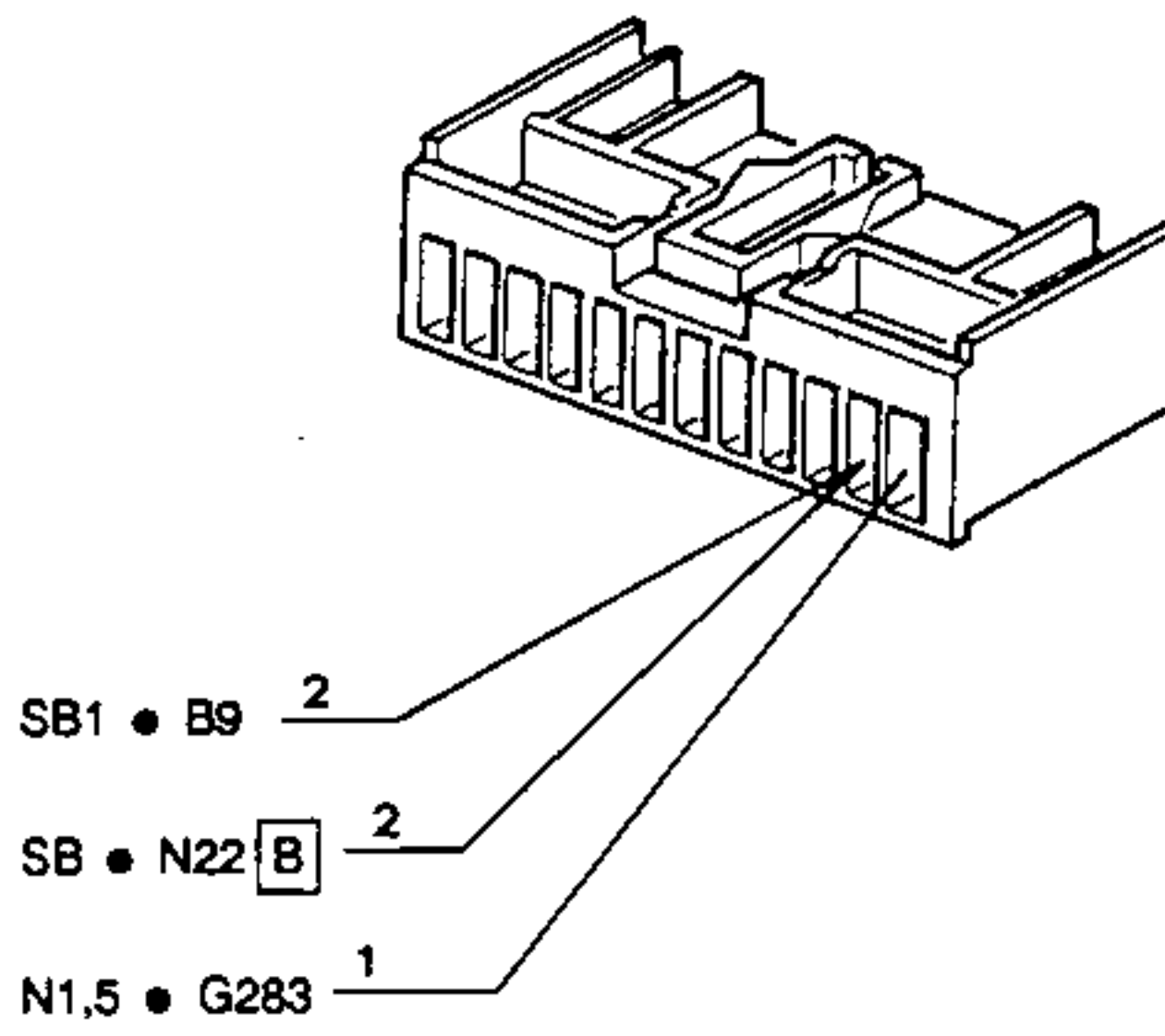
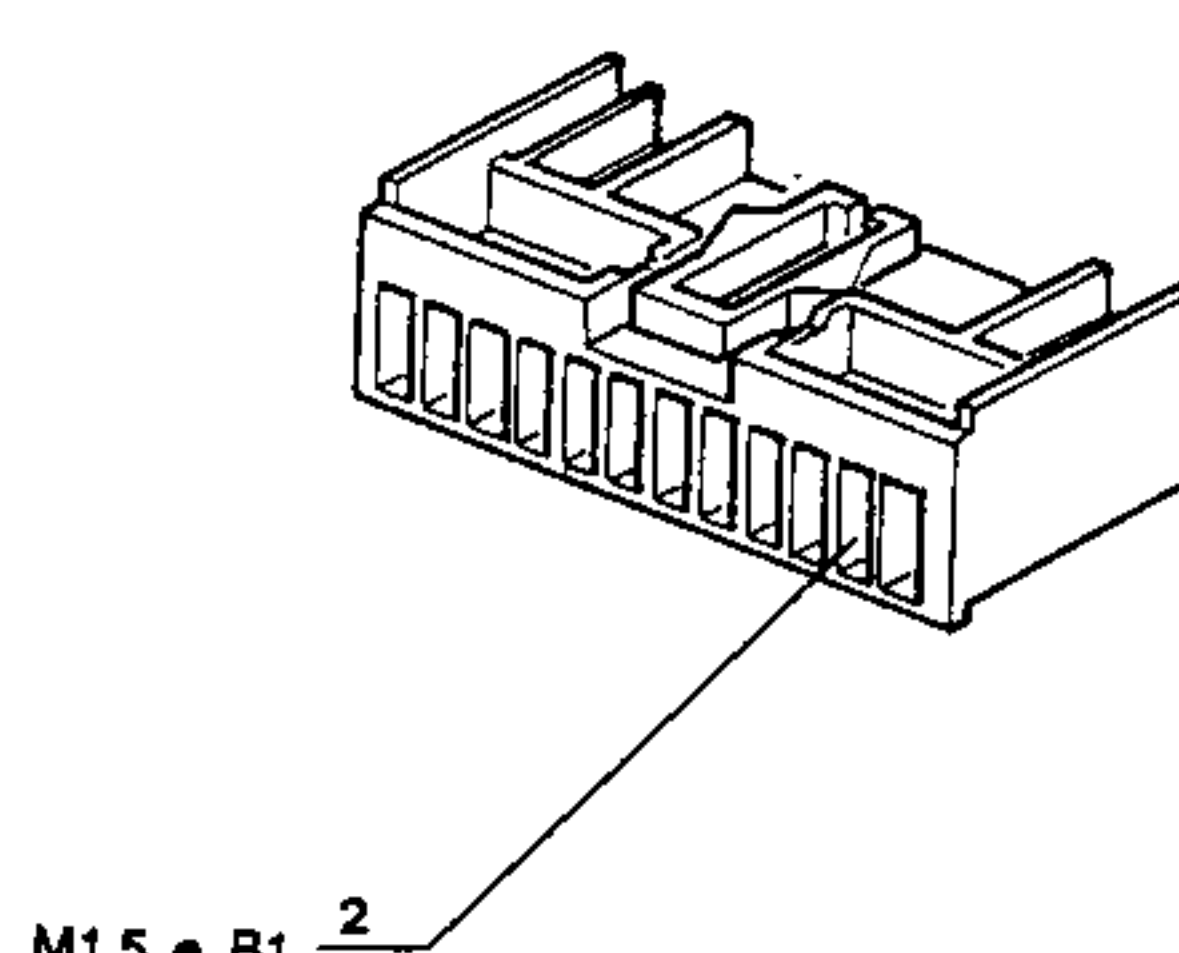
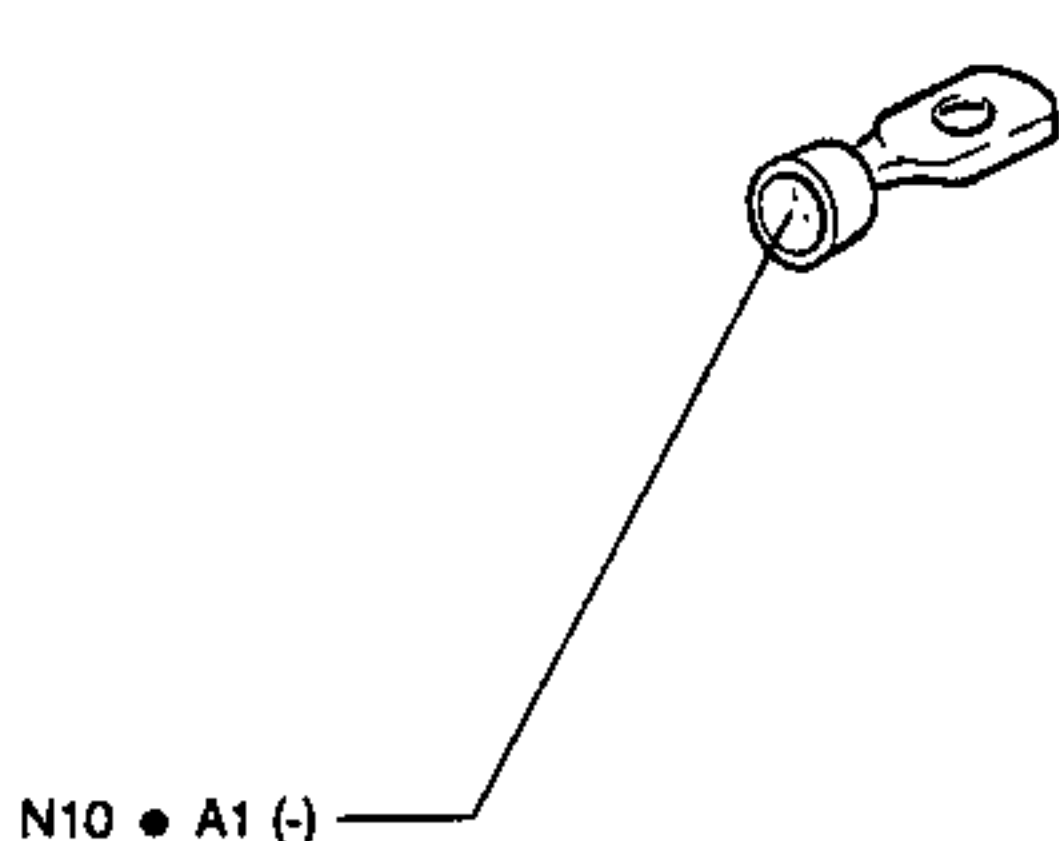
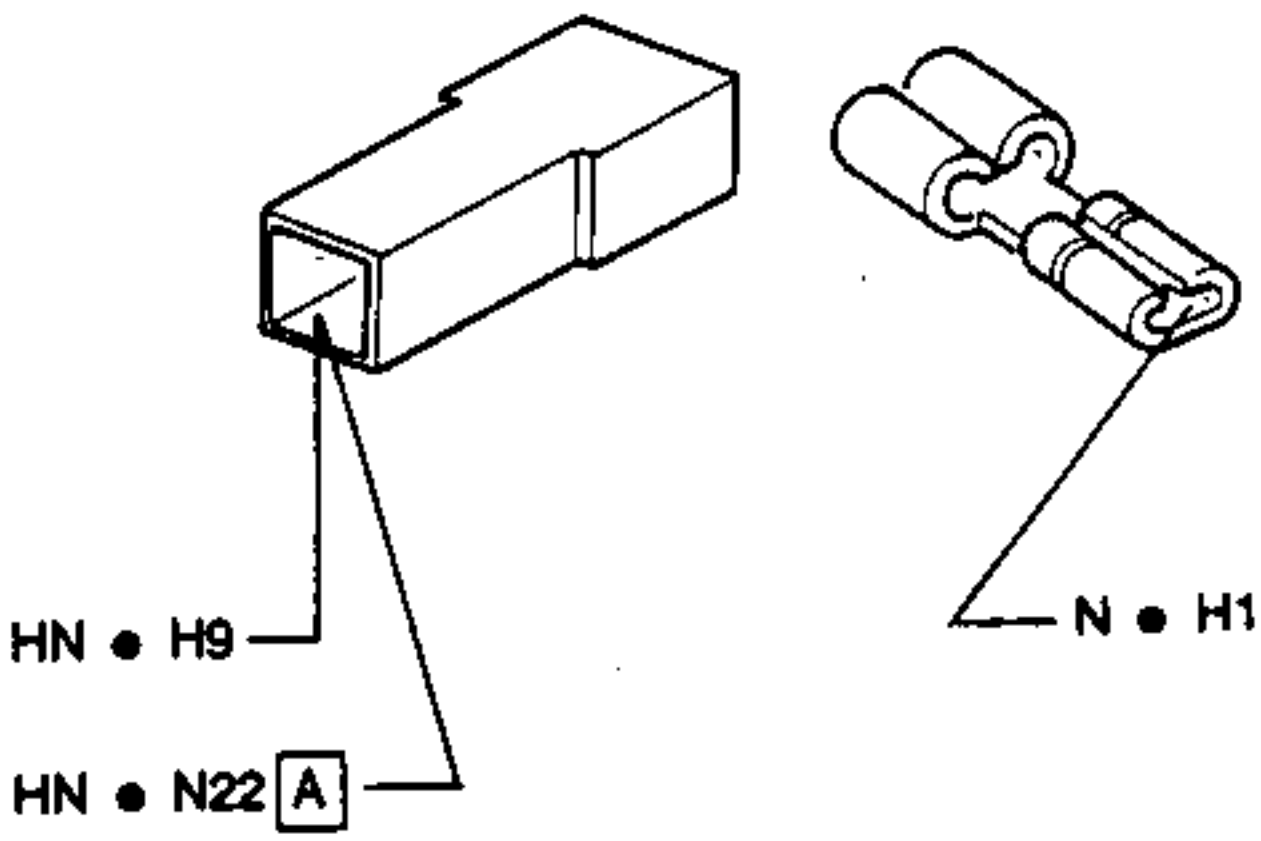
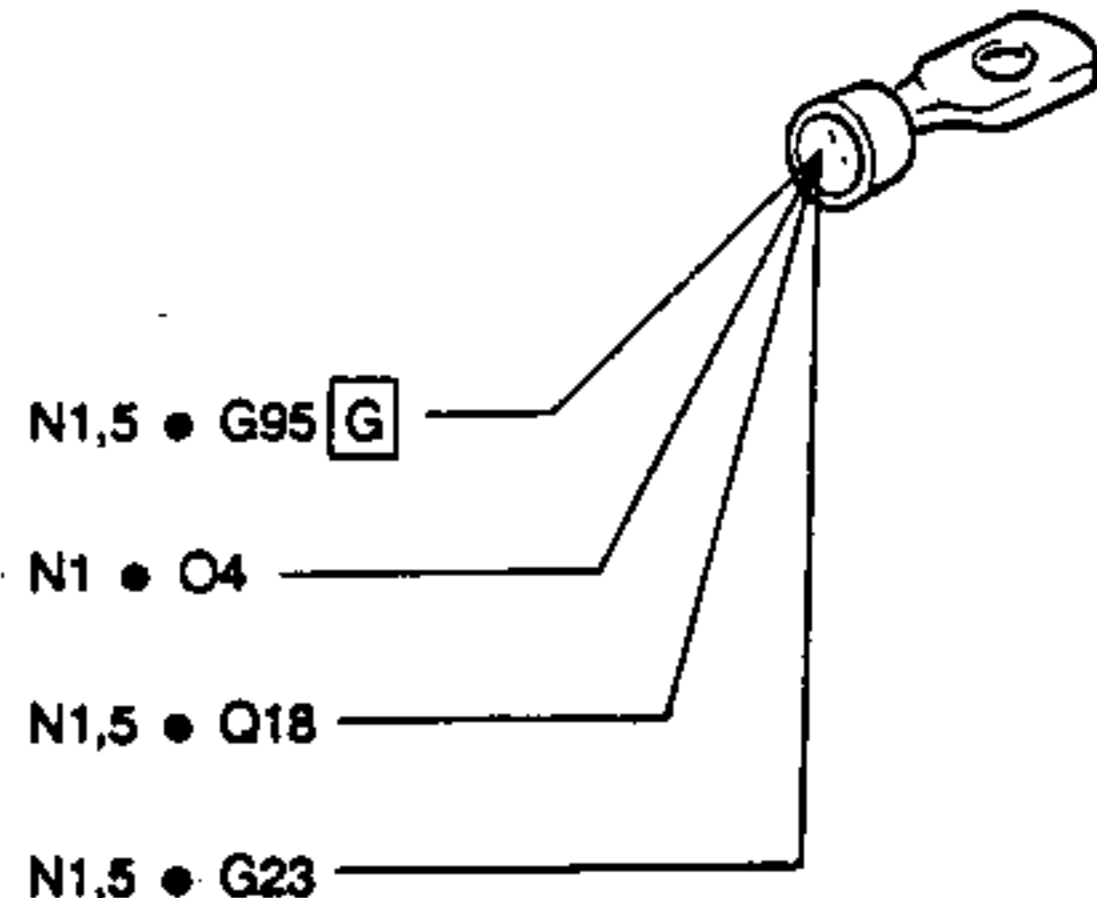


# ELECTRICAL SYSTEM

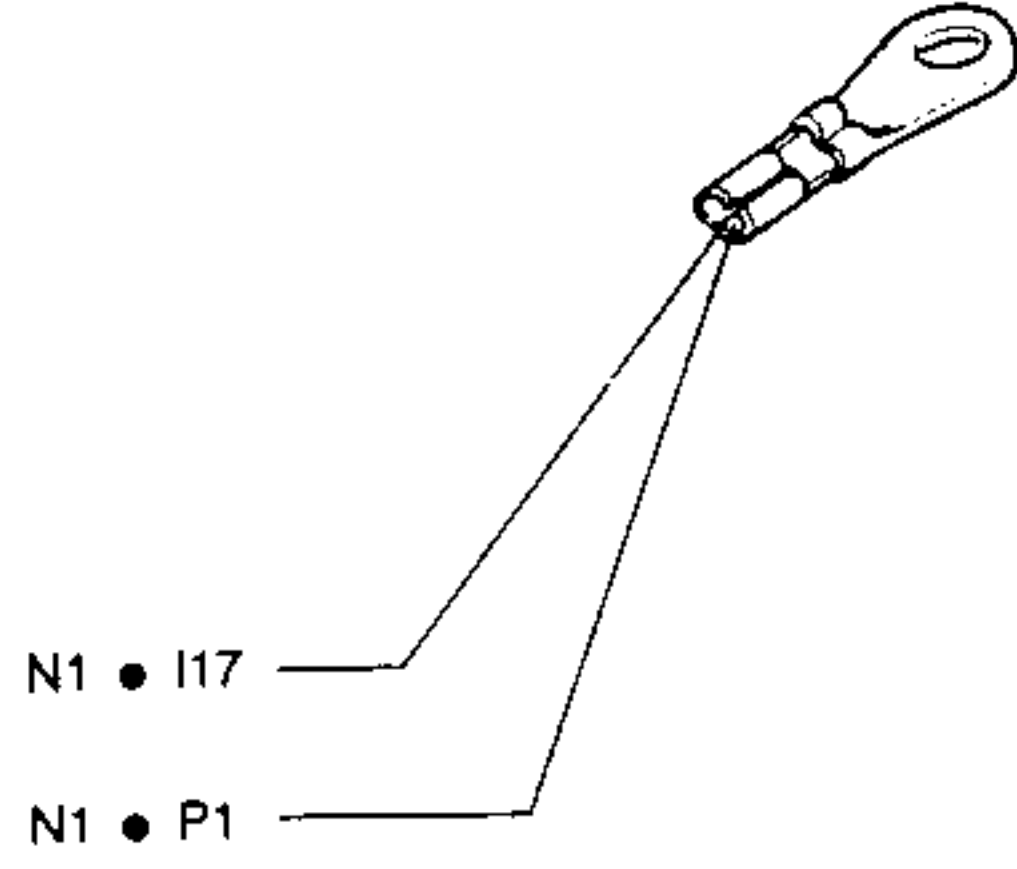
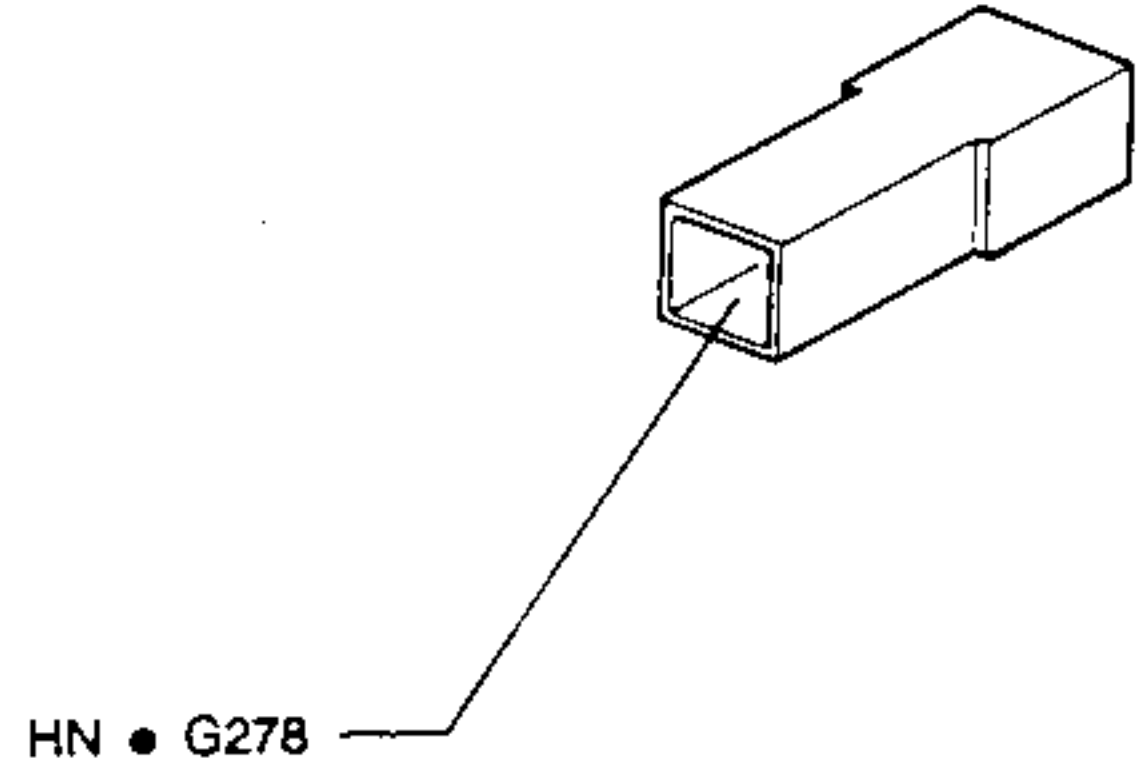
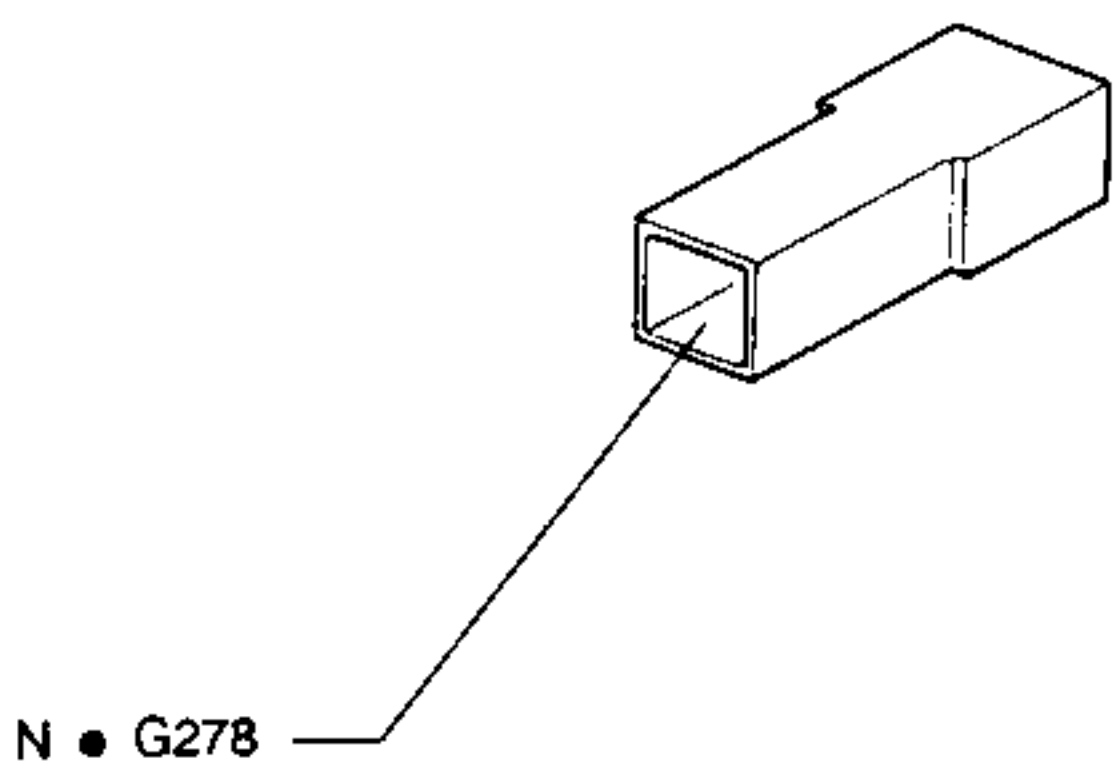
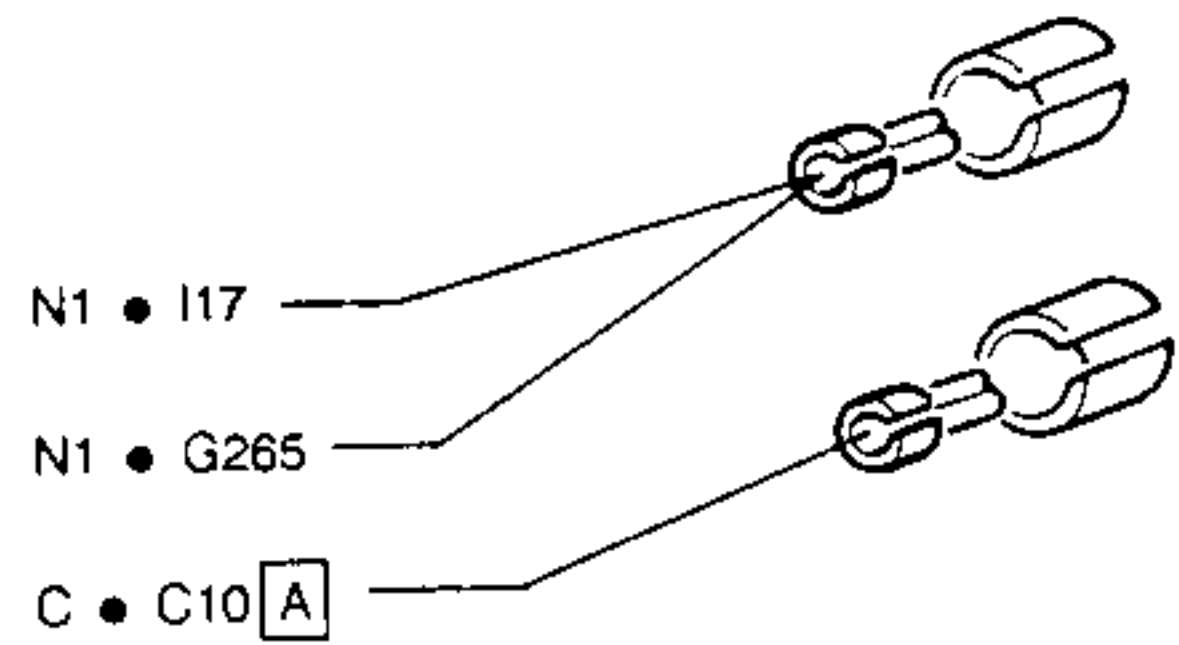
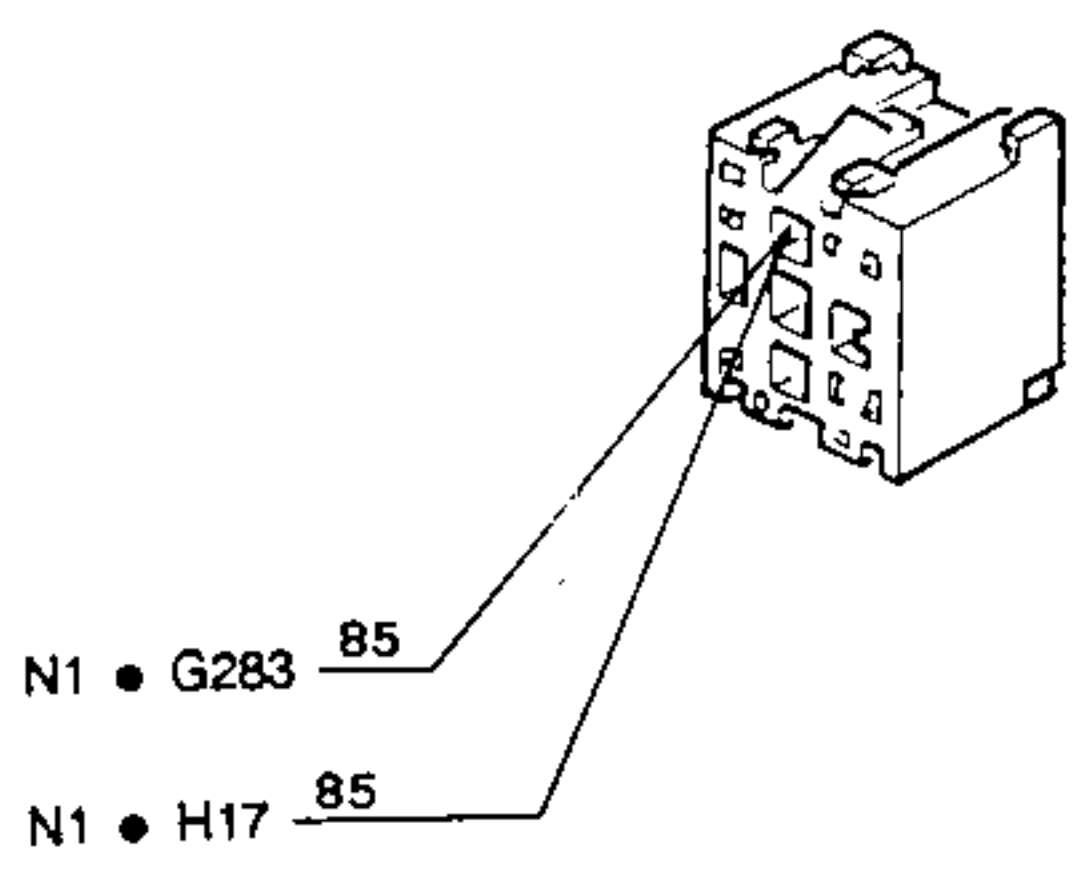
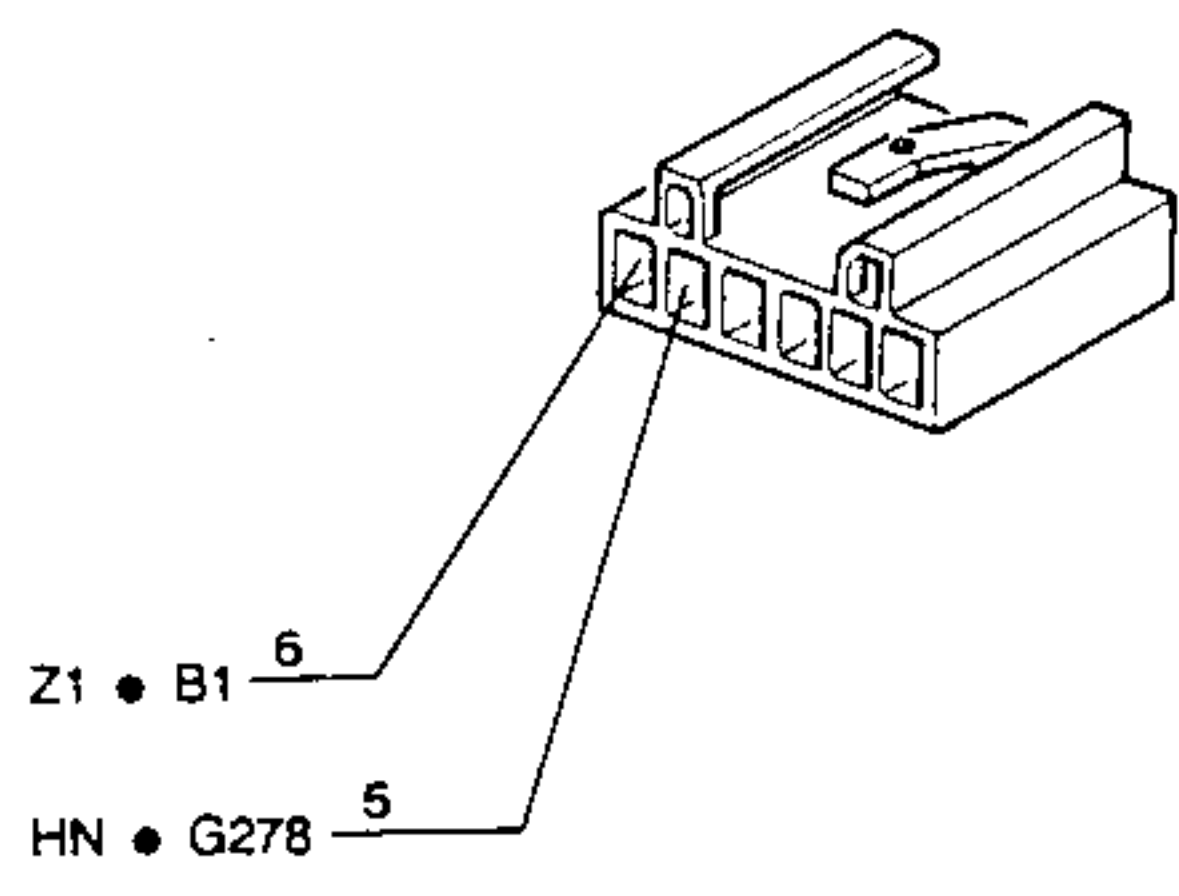
## Connectors

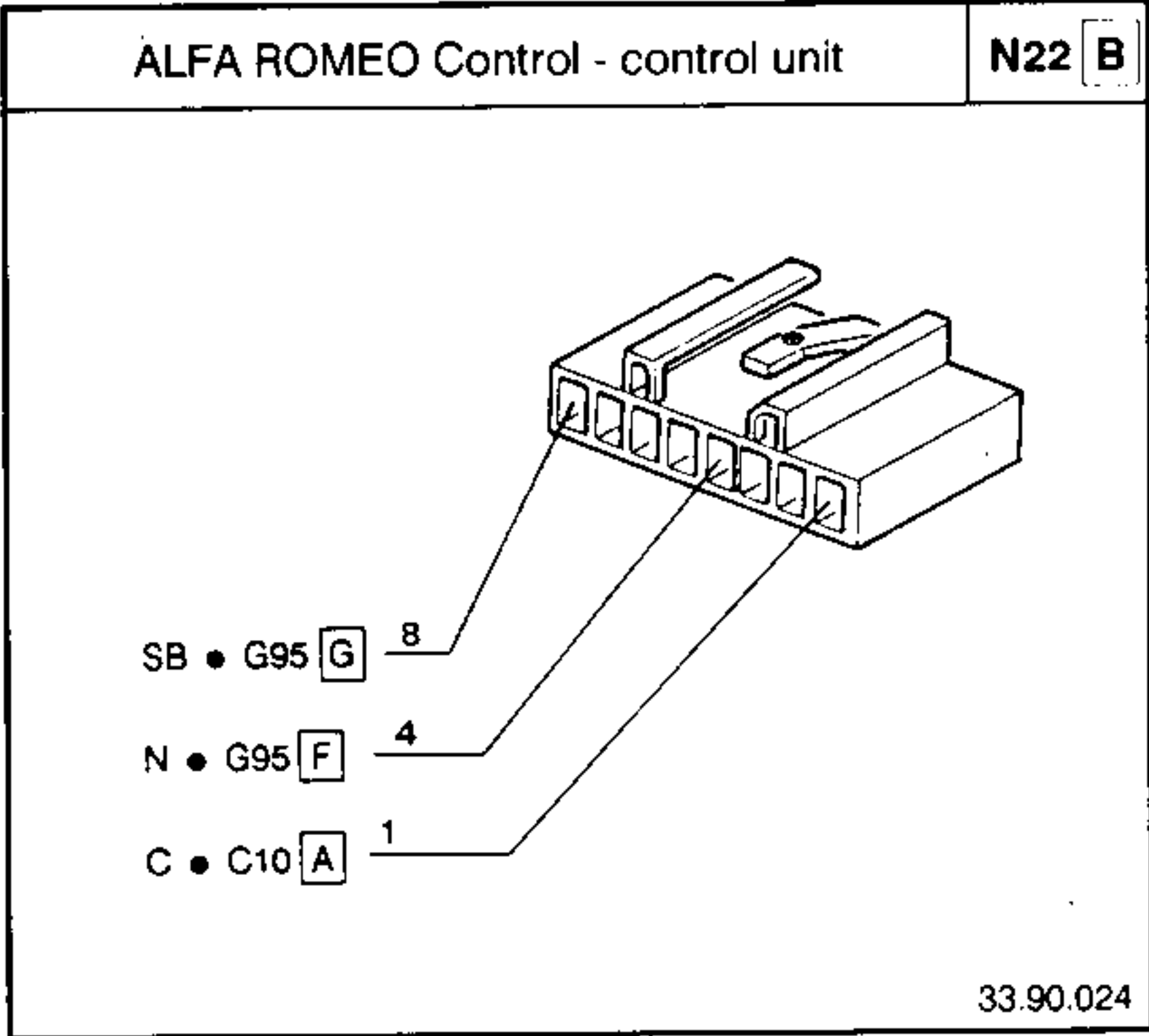
<b>Battery (+)</b>	<b>A1</b>	<b>Battery (-)</b>	<b>A1</b>
 <p>R10 • G56</p>		 <p>N10 • G143 N20 • To engine</p>	
33.90.001		33.90.002	
<b>Ignition switch</b>	<b>B1</b>	<b>Instrument panel</b>	<b>C10 A</b>
 <p>R2,5 • G56 3 M1,5 • G95 [H] 2 VN2,5 • G99a 2 N1,5 • G99a 4 Z1 • N22 [A] 4</p>		 <p>C • N22 [B] 7 C • H17 7 S • G95 [D] 5</p>	
33.90.028		33.90.024	
<b>Branch terminal board</b>	<b>G56</b>	<b>Central fusebox</b>	<b>G95 D</b>
 <p>R2,5 • B1 R2,5 • B68 [A] R10 • A1 (+)</p>		 <p>S • C10 [A] 12</p>	
33.90.066		33.90.004	

ELECTRICAL SYSTEM

<p>Central fusebox</p>	<p>G95 F</p>	<p>Central fusebox</p>	<p>G95 G</p>
 <p>N • N22 B 10 N • B12 10</p>	<p>33.90.005</p>	 <p>SB1 • B9 2 SB • N22 B 2 N1,5 • G283 1</p>	<p>33.90.004</p>
<p>Central fusebox</p>	<p>G95 H</p>	<p>Central service compartment earth</p>	<p>G143</p>
 <p>M1,5 • B1 2</p>	<p>33.90.004</p>	 <p>N10 • A1 (-)</p>	<p>33.90.001</p>
<p>Brake pad wear sensor connector</p>	<p>G278</p>	<p>Earth on left service compartment</p>	<p>G283</p>
 <p>HN • H9 HN • N22 A N • H10</p>	<p>33.90.067</p>	 <p>N1,5 • G95 G N1 • O4 N1,5 • Q18 N1,5 • G23</p>	<p>33.90.001</p>

ELECTRICAL SYSTEM

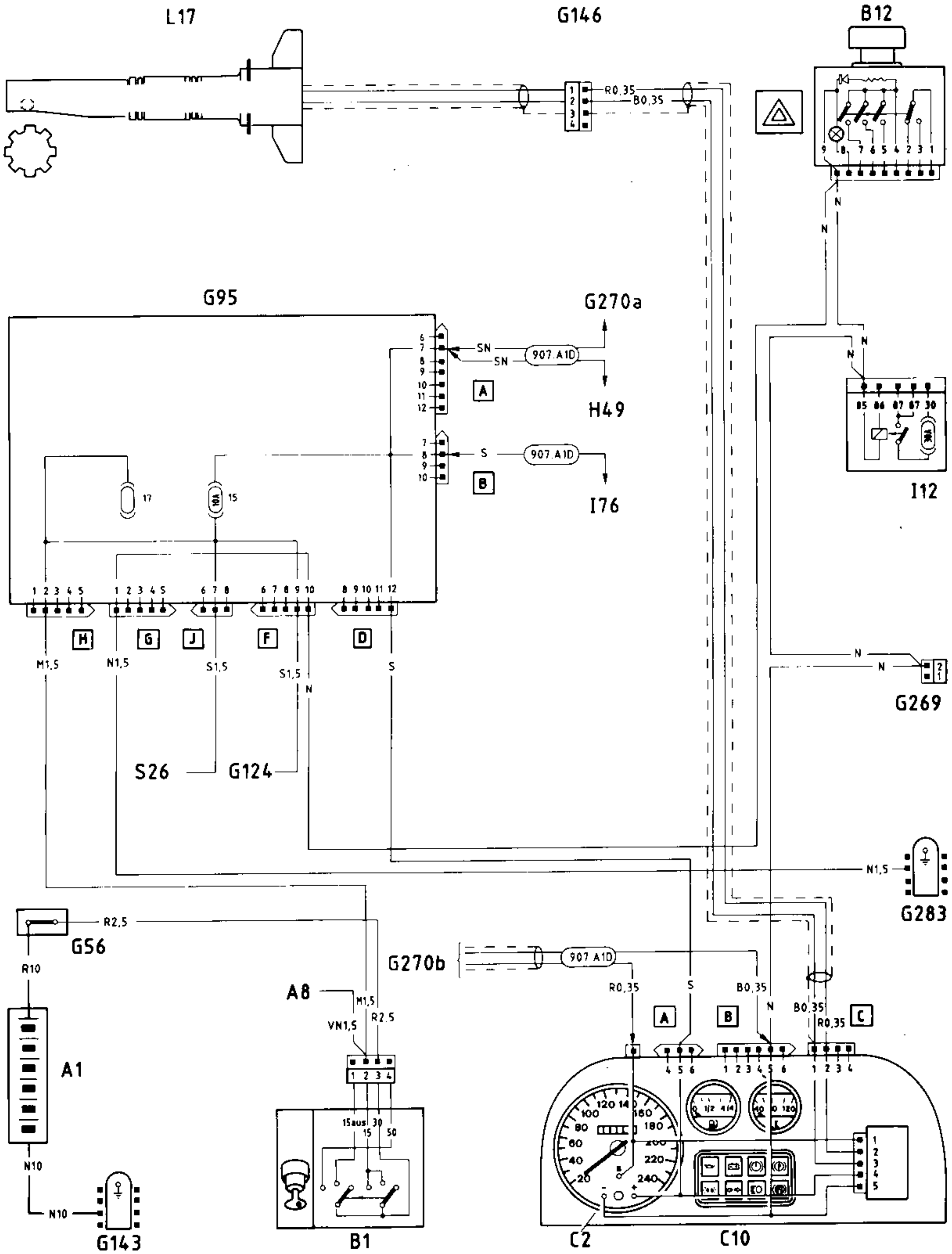
<p>Earth on left service compartment</p>	<p>G283</p>	<p>Right front brake pad switch</p>	<p>H9</p>
 <p>N1 • I17</p> <p>N1 • P1</p> <p>33.90.014</p>		 <p>HN • G278</p> <p>33.90.062</p>	
<p>Left front brake pad switch</p>	<p>H10</p>	<p>Brake fluid minimum level check switch</p>	<p>H17</p>
 <p>N • G278</p> <p>33.90.062</p>		 <p>N1 • I17</p> <p>N1 • G265</p> <p>C • C10 [A]</p> <p>33.90.030</p>	
<p>Fog lamp relay</p>	<p>I17</p>	<p>ALFA ROMEO Control - control unit</p>	<p>N22 [A]</p>
 <p>N1 • G283 85</p> <p>N1 • H17 85</p> <p>33.90.007</p>		 <p>Z1 • B1 6</p> <p>HN • G278 5</p> <p>33.90.034</p>	



# ELECTRICAL SYSTEM

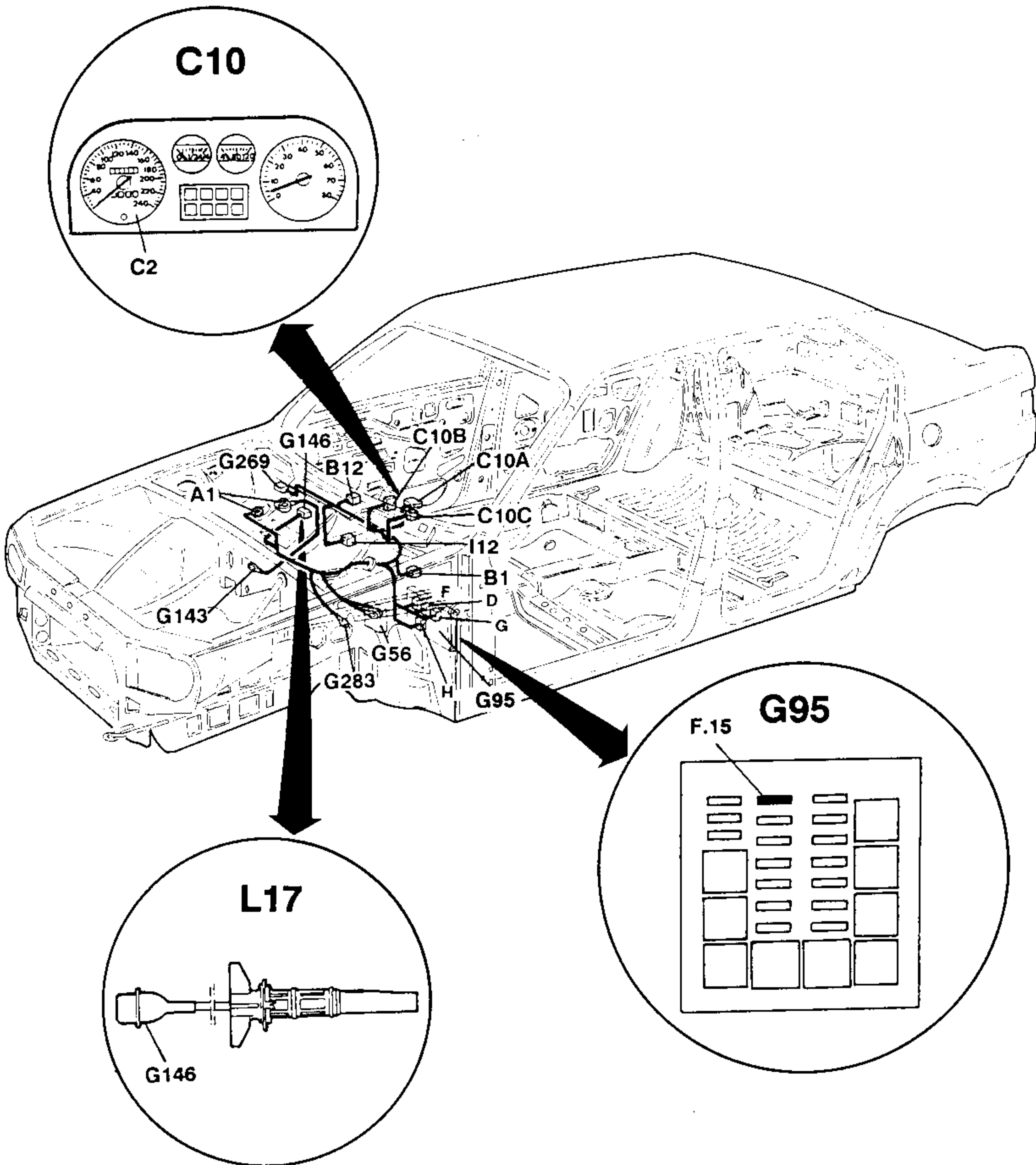
## SPEEDOMETER

### Wiring diagram

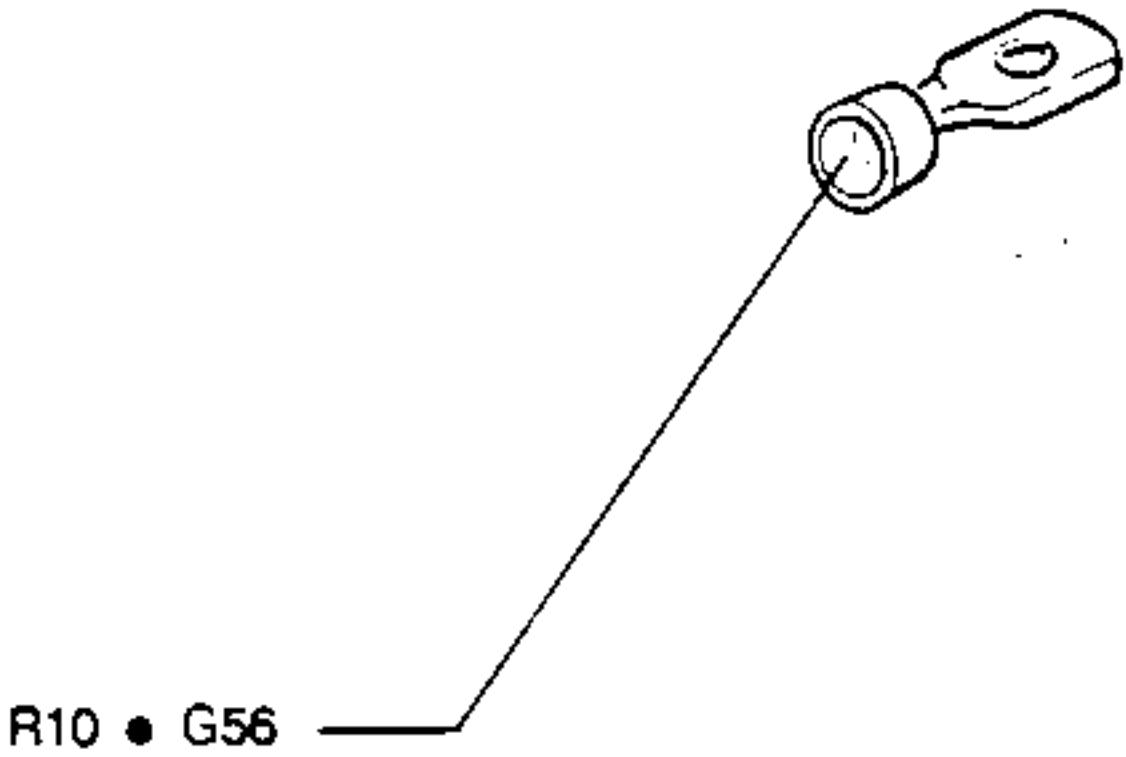
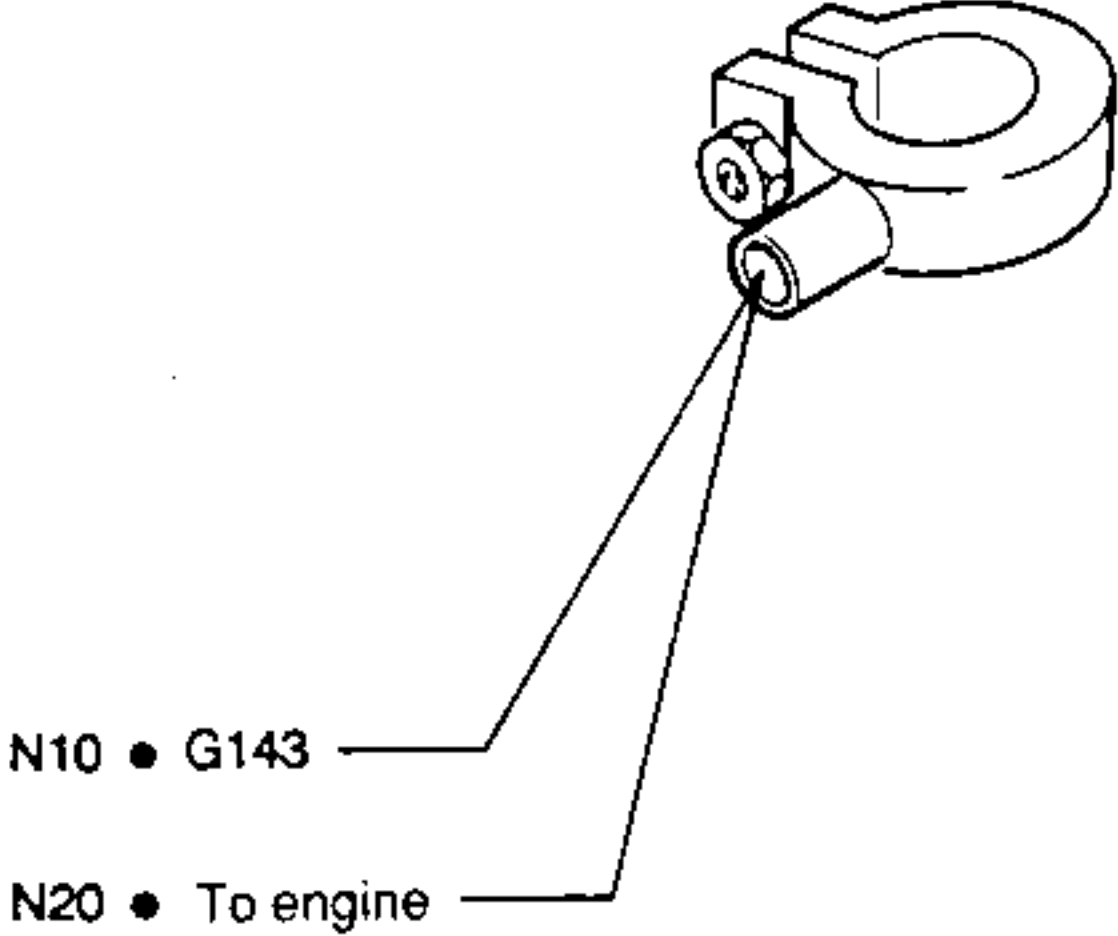
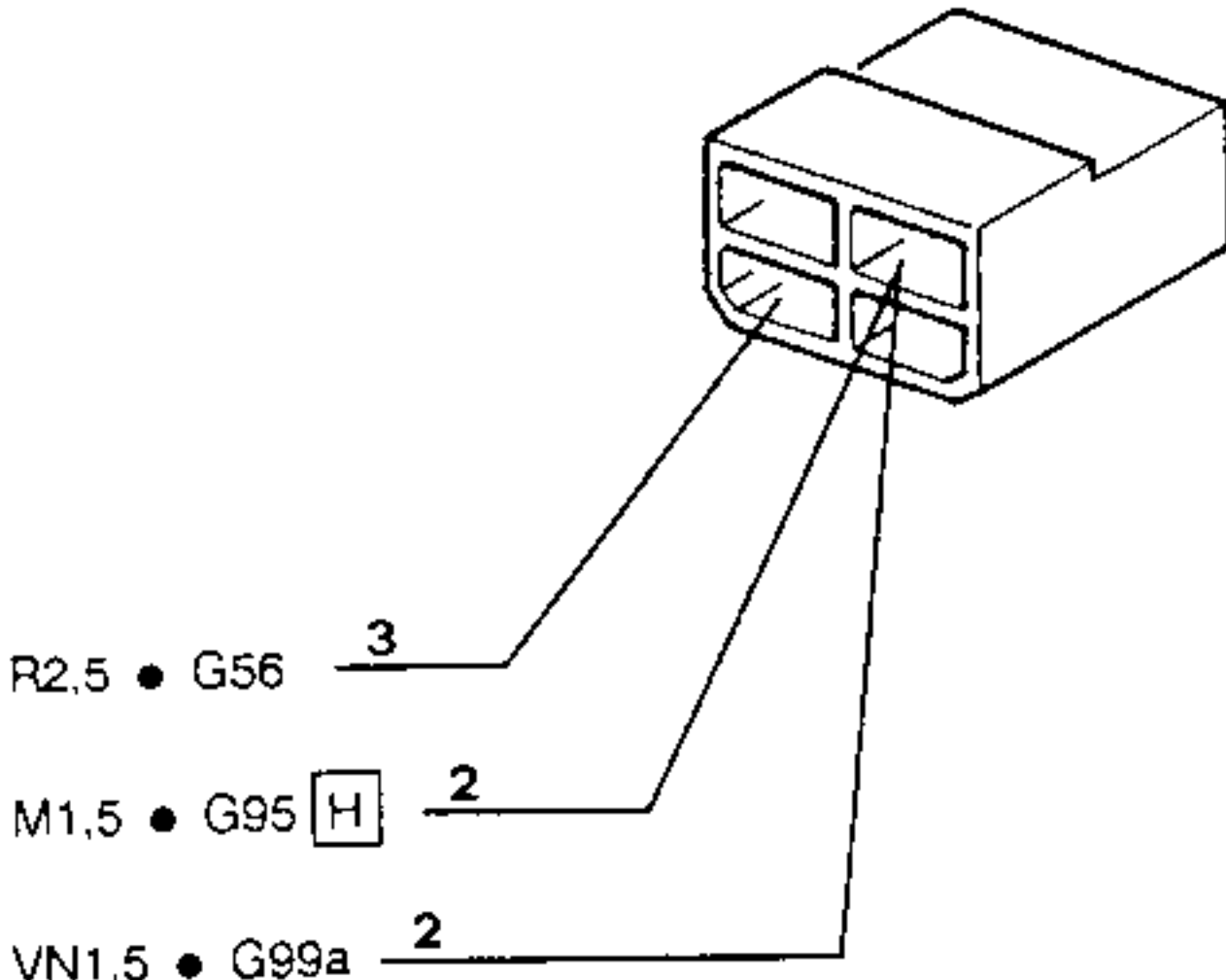
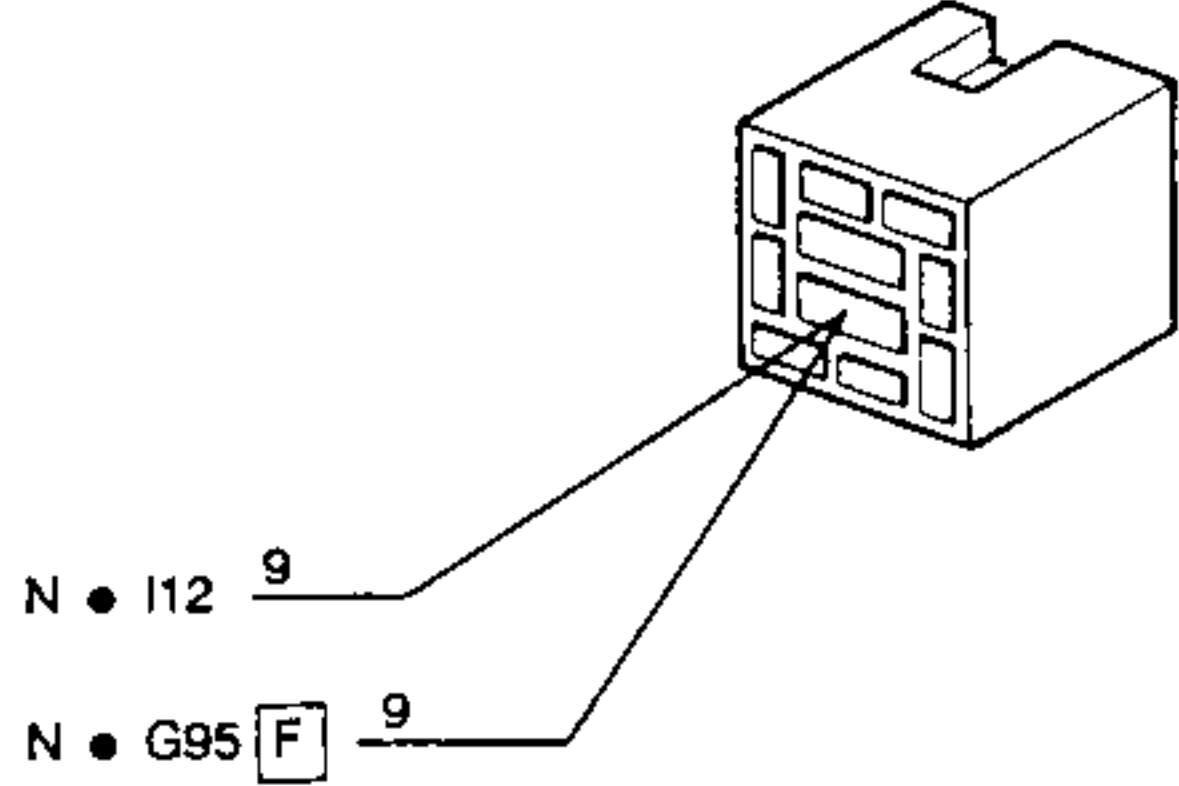
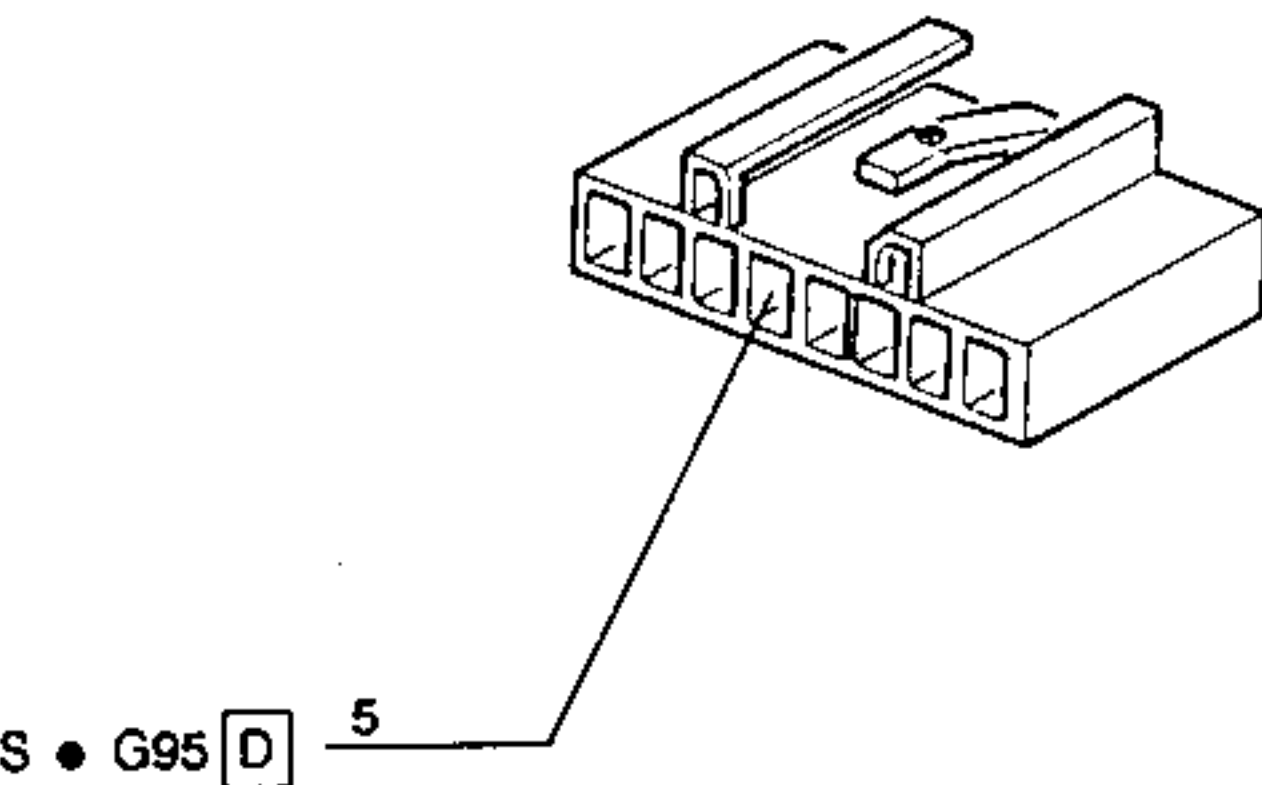
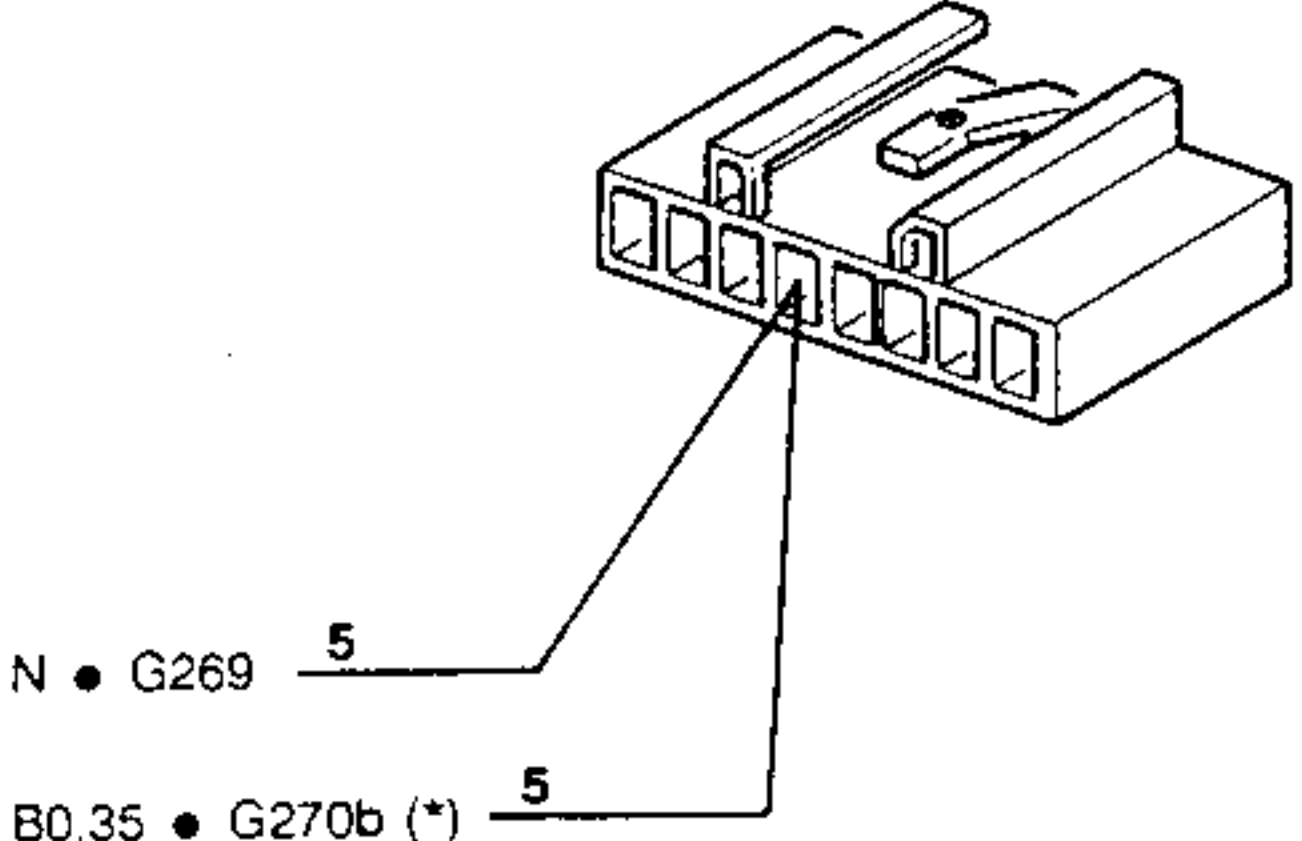




Wiring

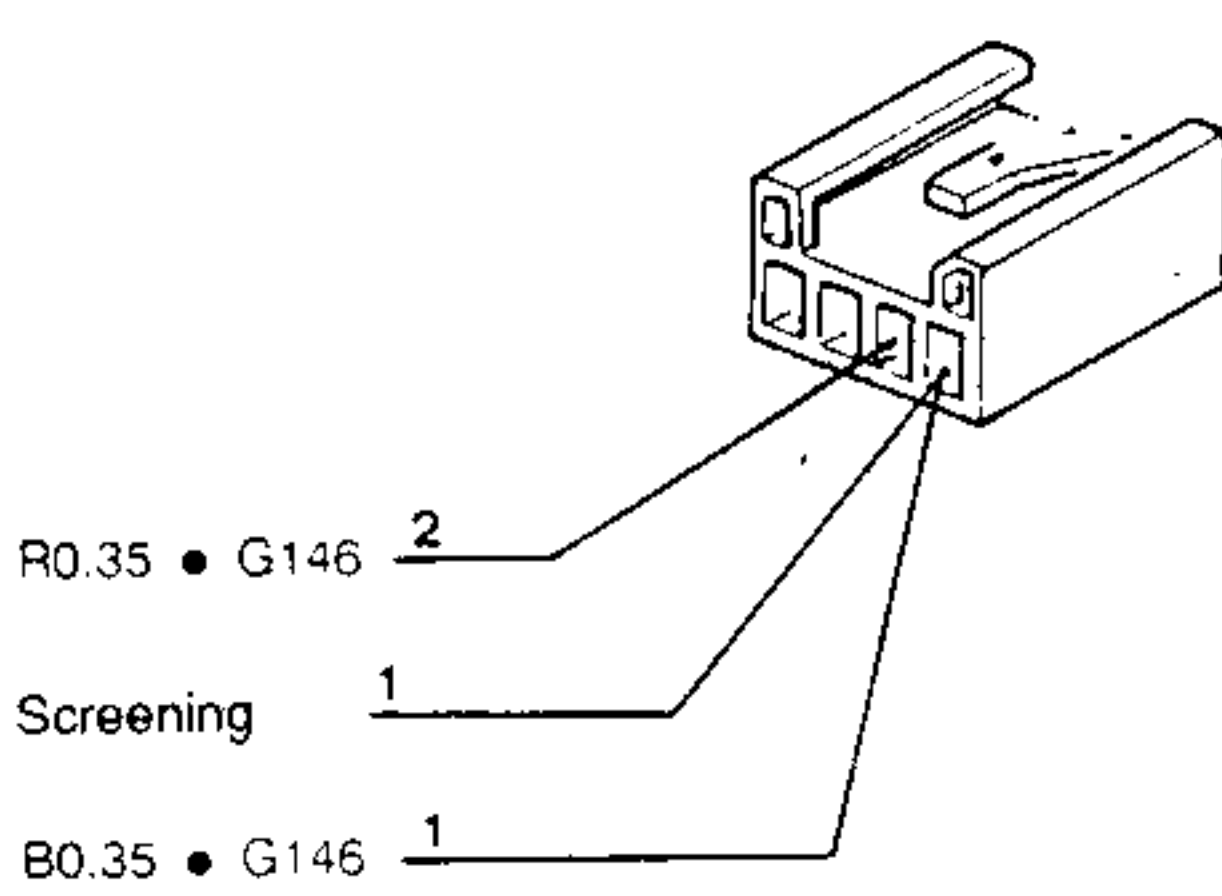
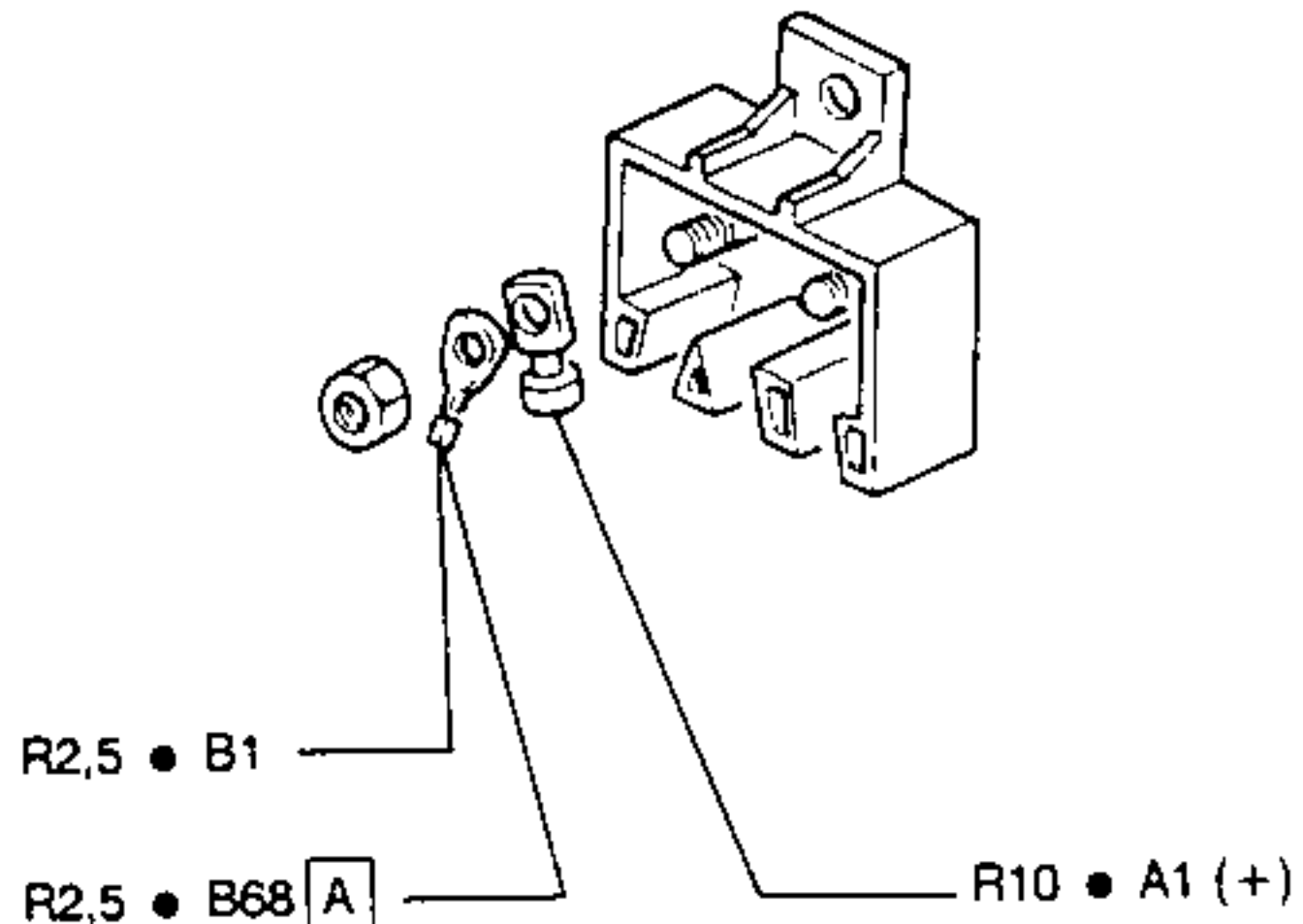
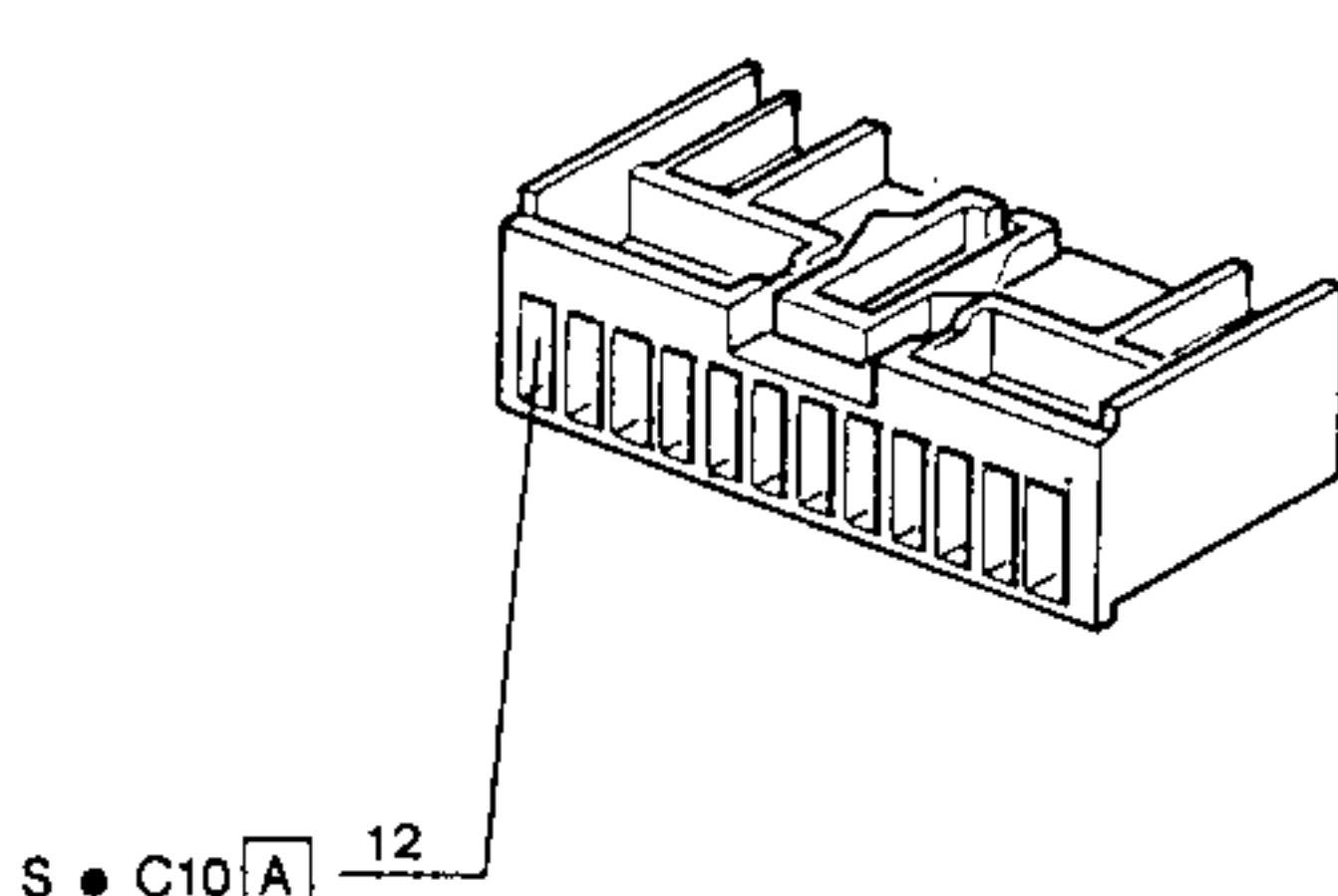
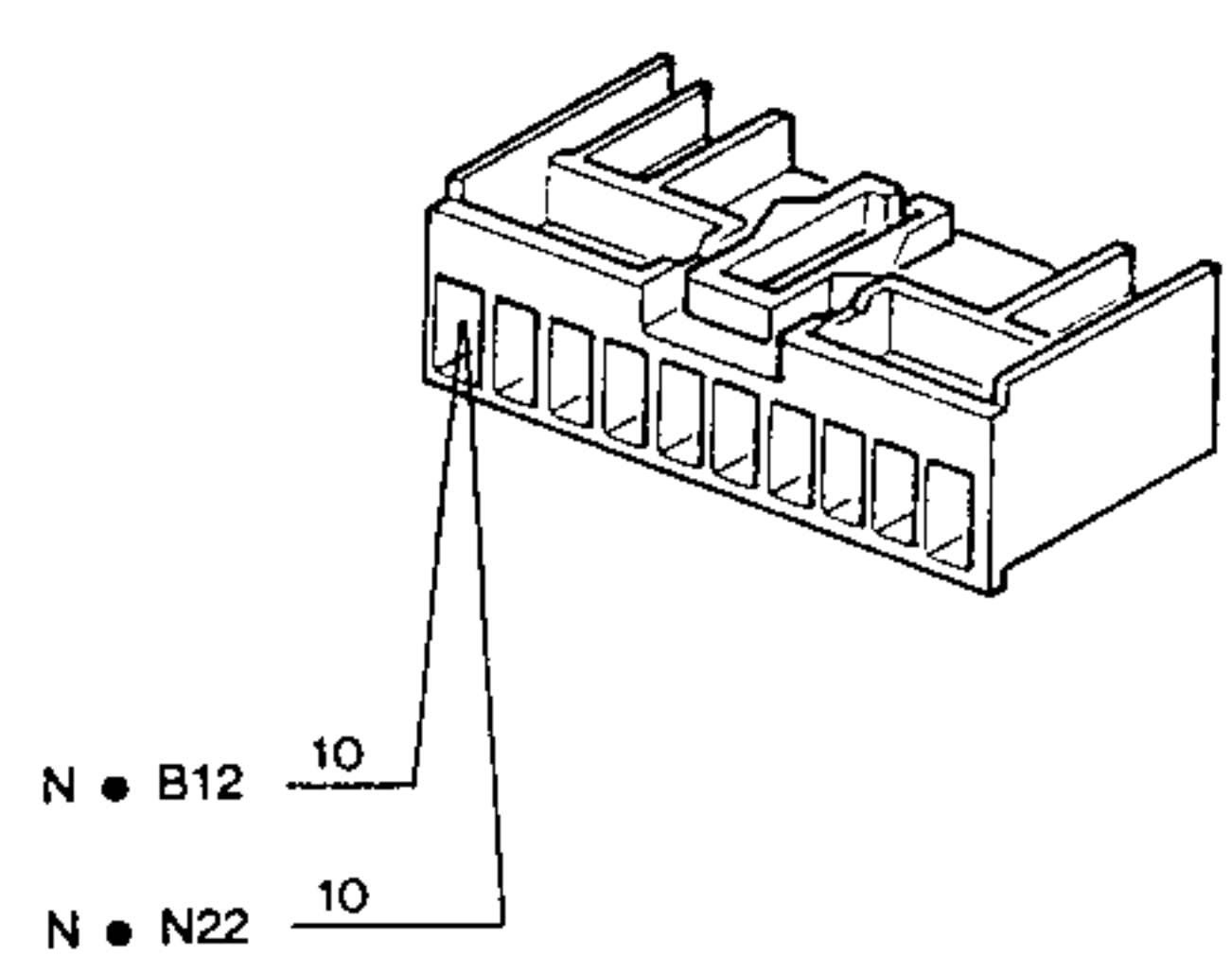
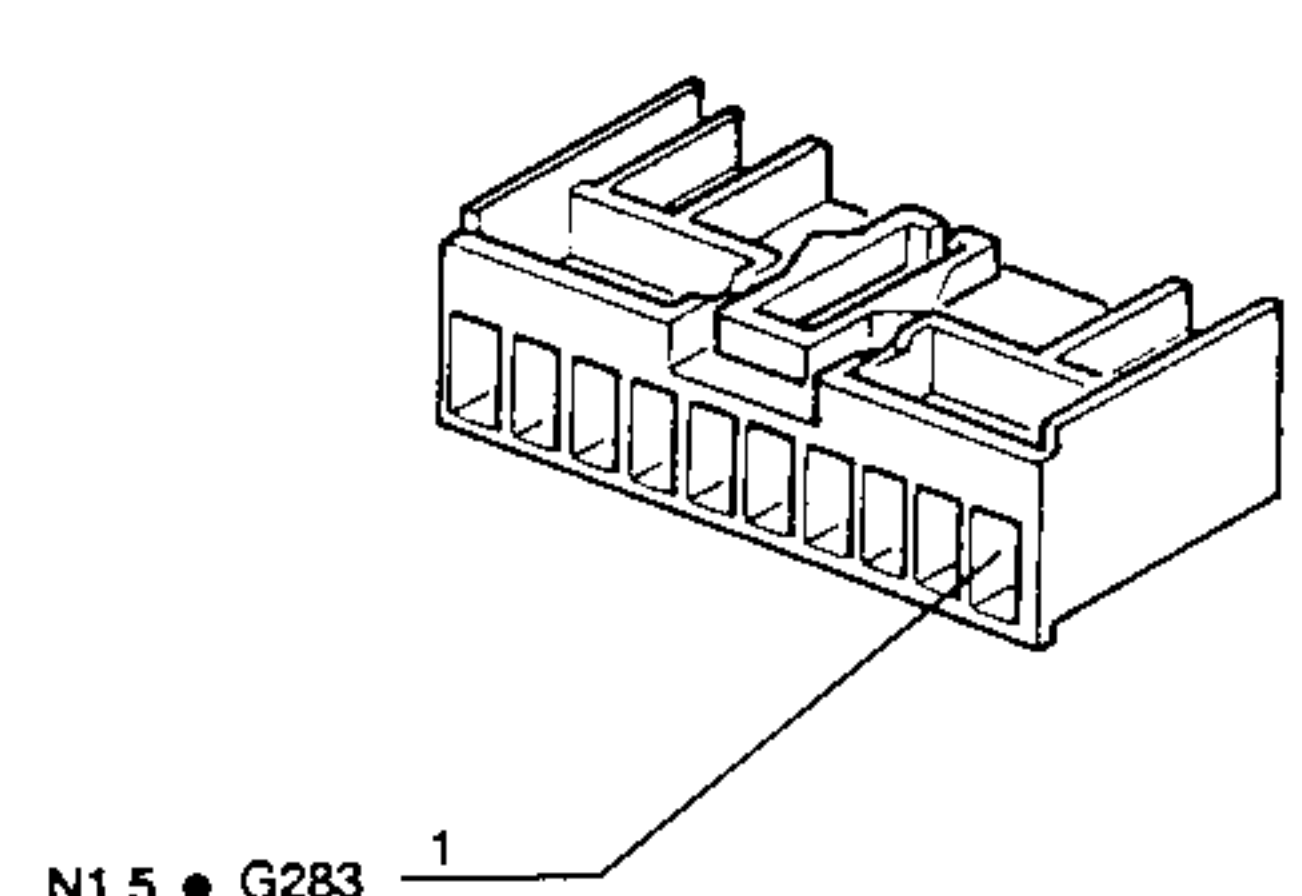
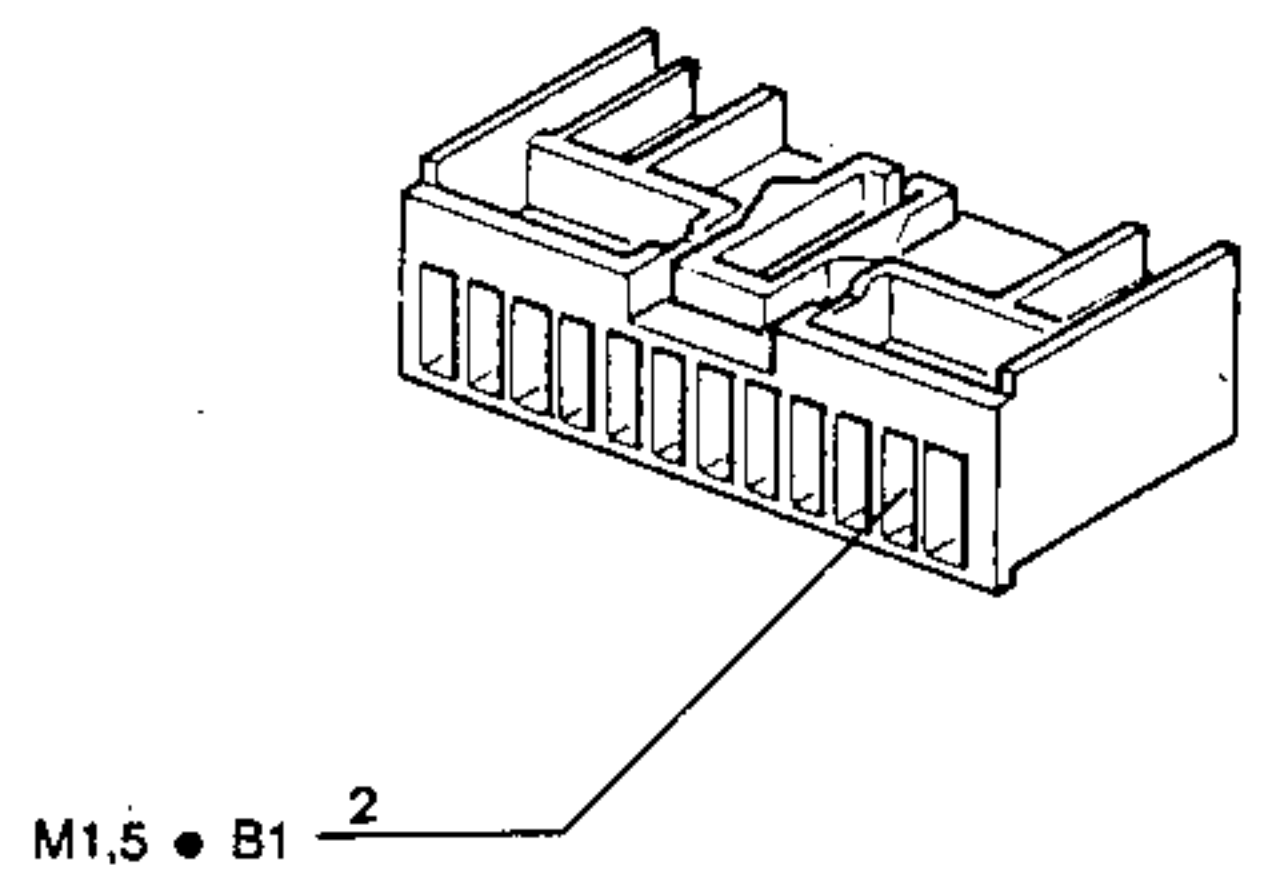


Connectors

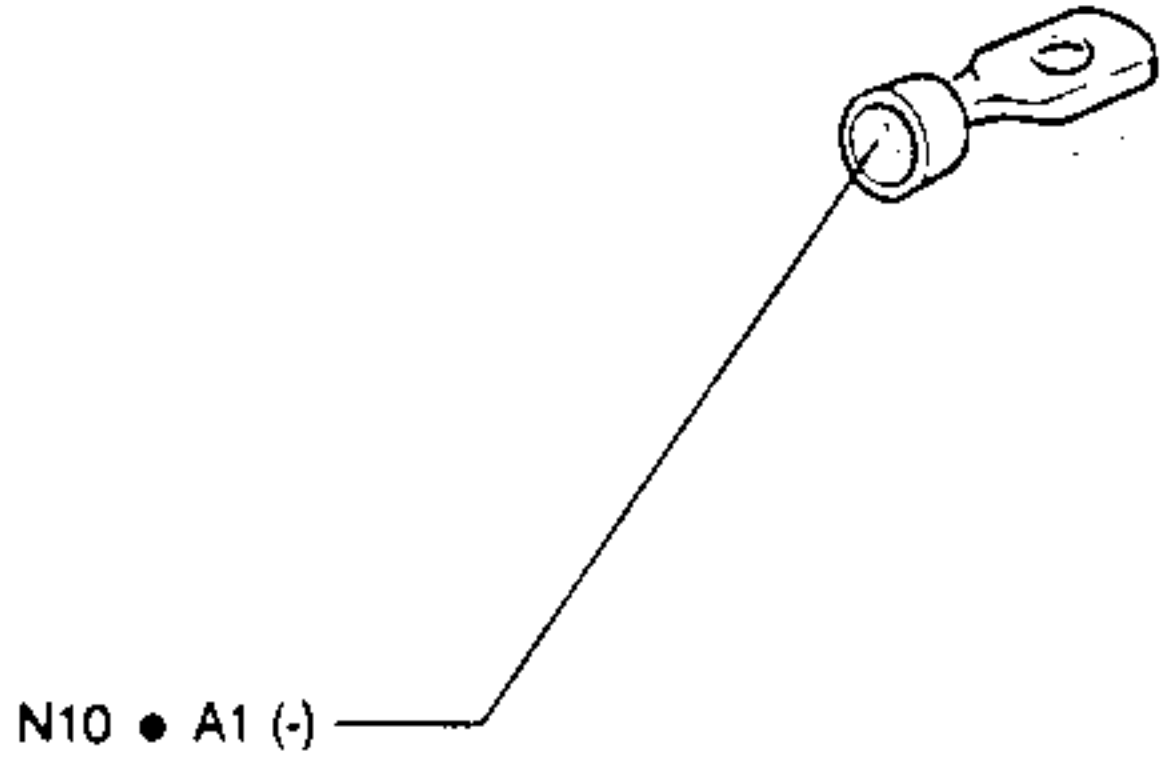
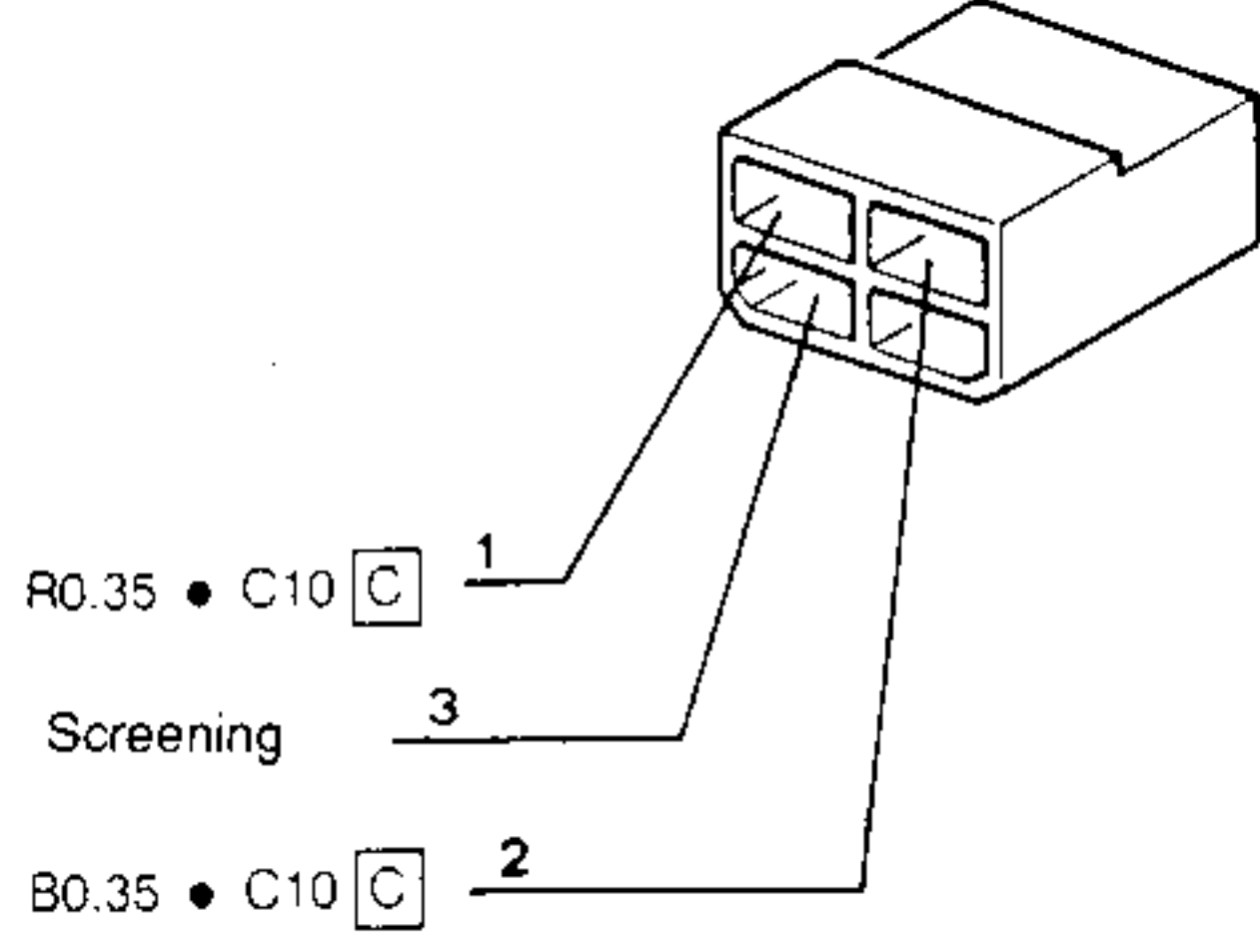
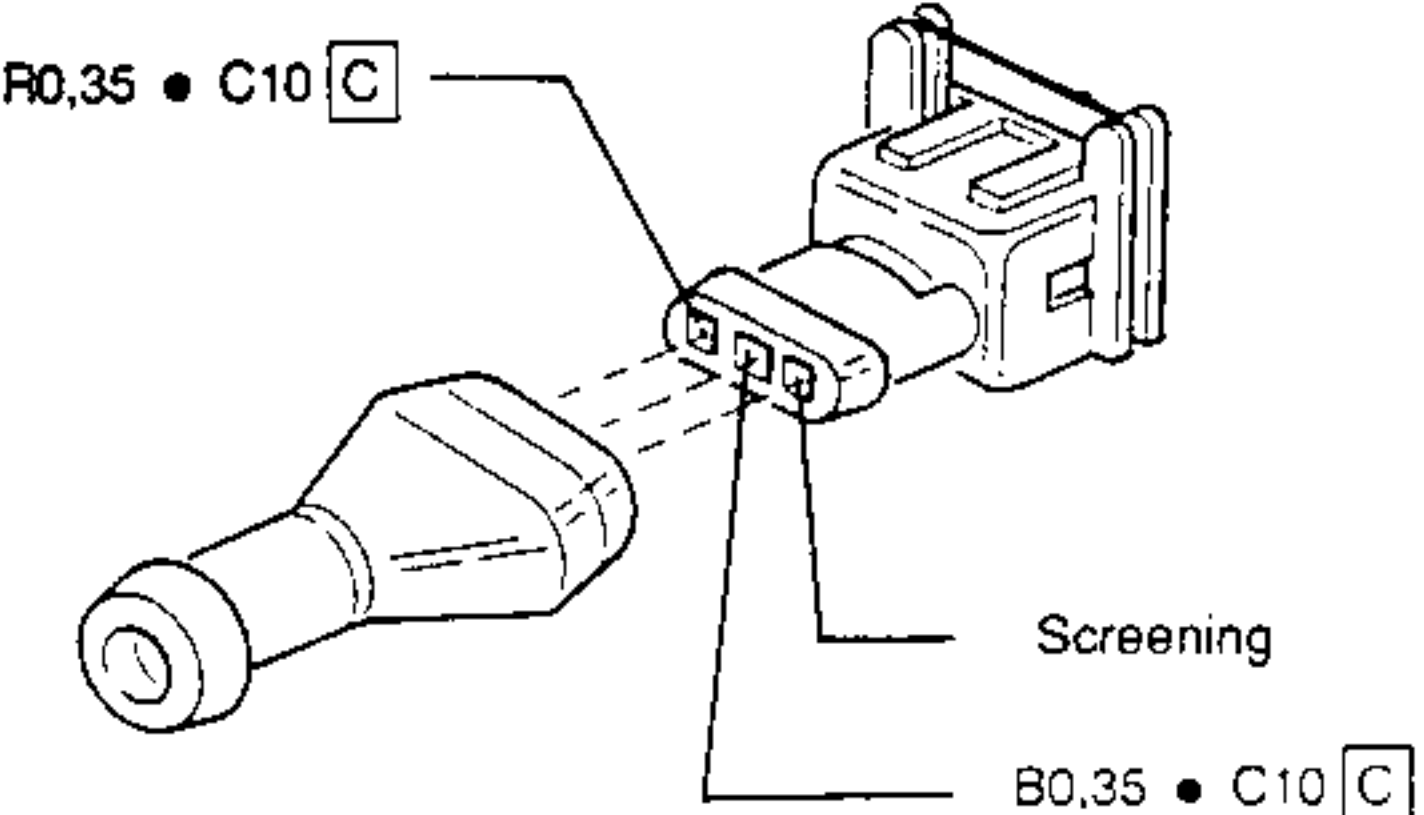
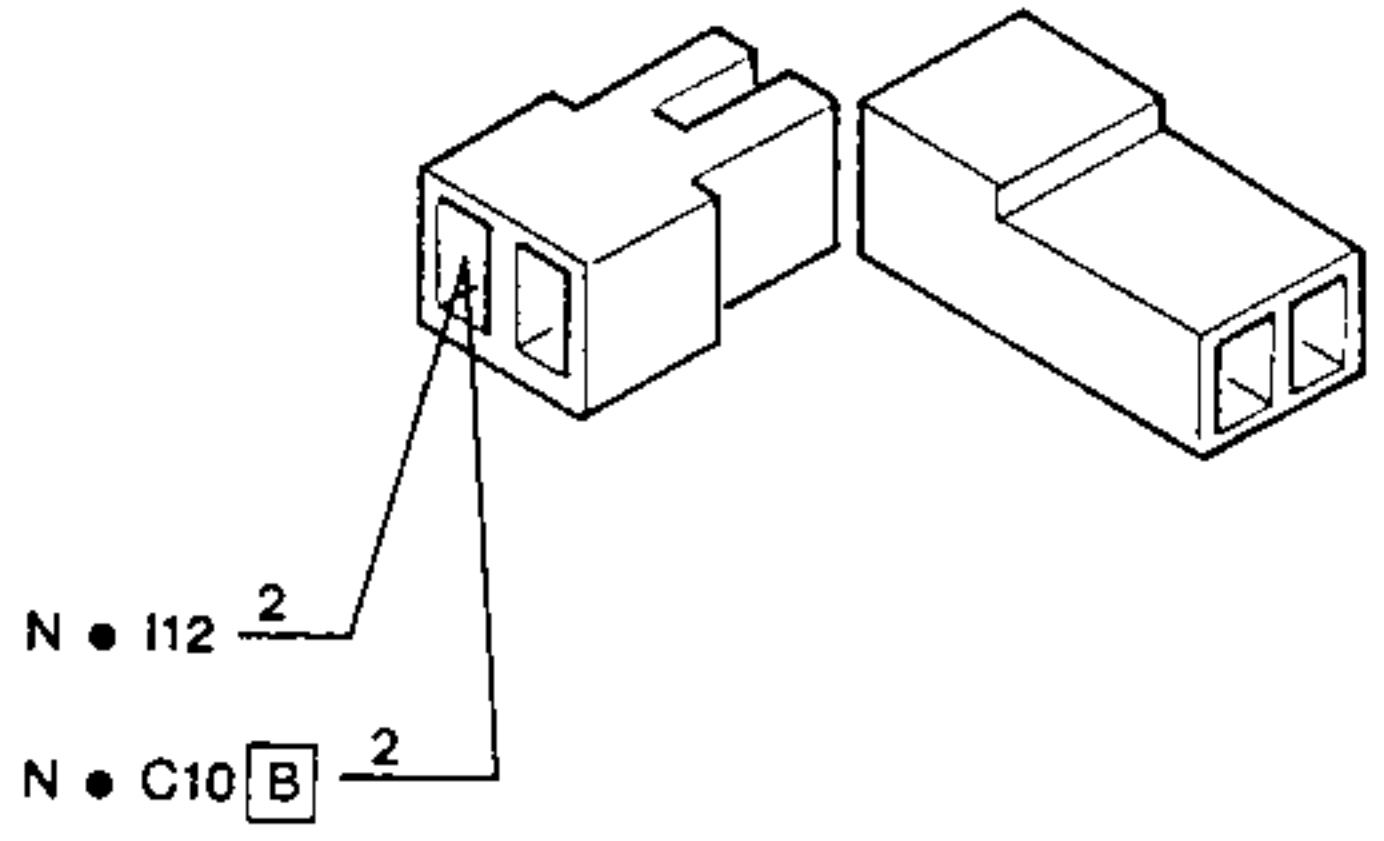
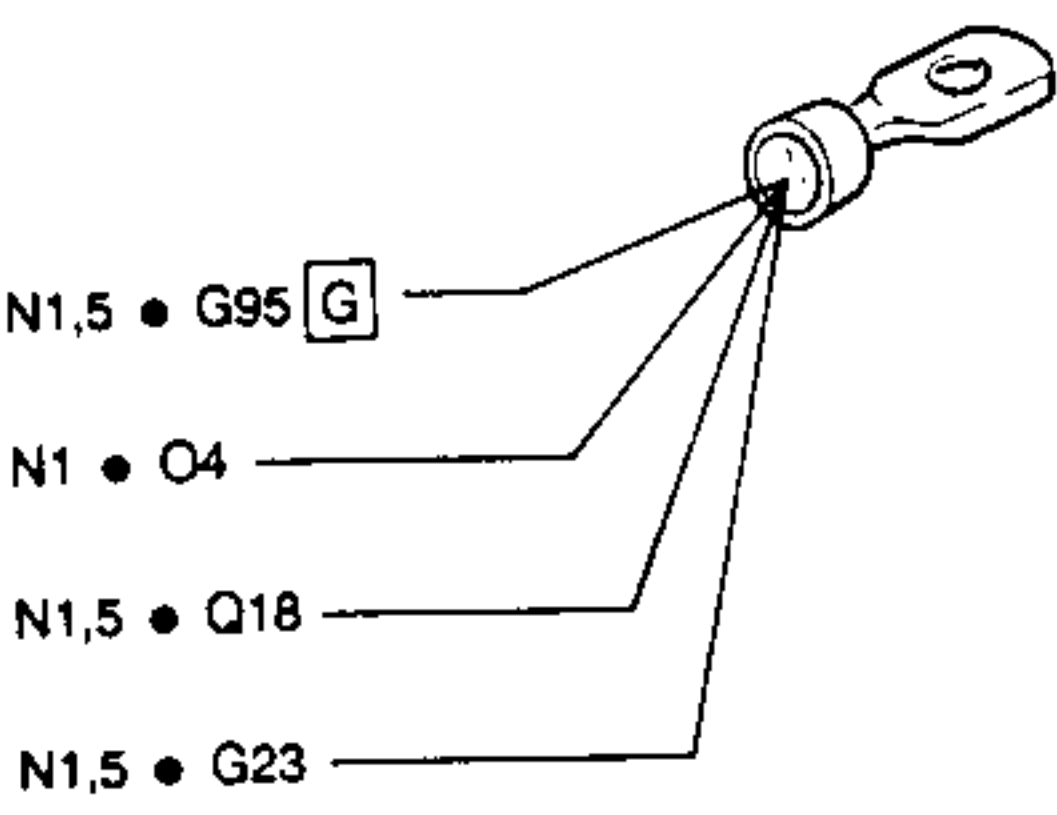
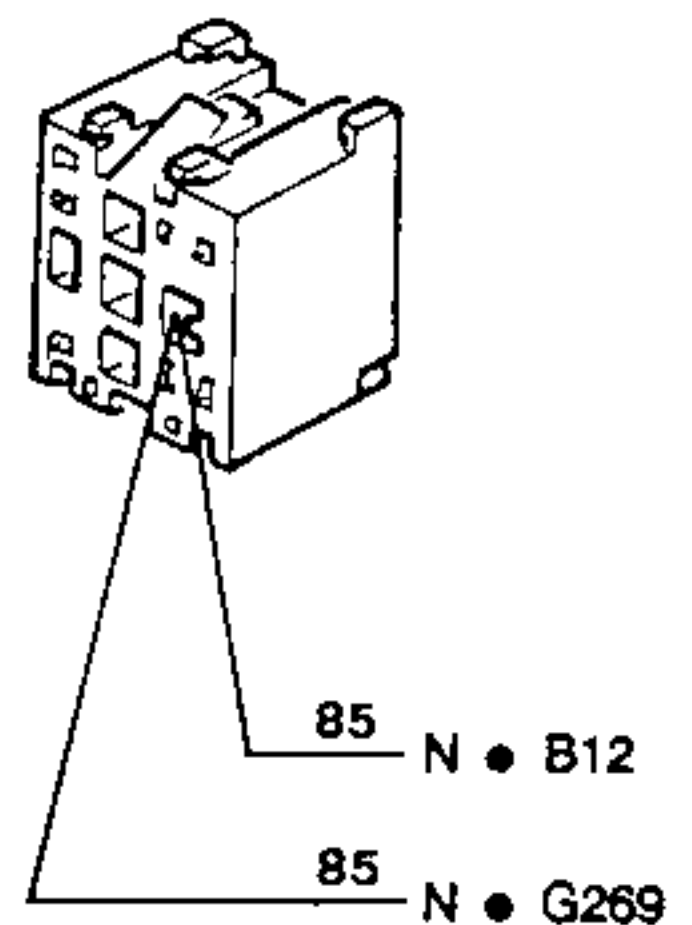
<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
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<p>Ignition switch</p>	<p>B1</p>	<p>Hazard warning lights control switch</p>	<p>B12</p>
 <p>R2.5 • G56 3</p> <p>M1.5 • G95 [H] 2</p> <p>VN1.5 • G99a 2</p> <p>33.90.028</p>		 <p>N • I12 9</p> <p>N • G95 [F] 9</p> <p>33.90.008</p>	
<p>Instrument panel</p>	<p>C10 A</p>	<p>Instrument</p>	<p>C10 B</p>
 <p>S • G95 [D] 5</p> <p>33.90.024</p>		 <p>N • G269 5</p> <p>B0,35 • G270b (*) 5</p> <p>33.90.024</p>	

(\*) Specific to 4 x 4 versions

ELECTRICAL SYSTEM

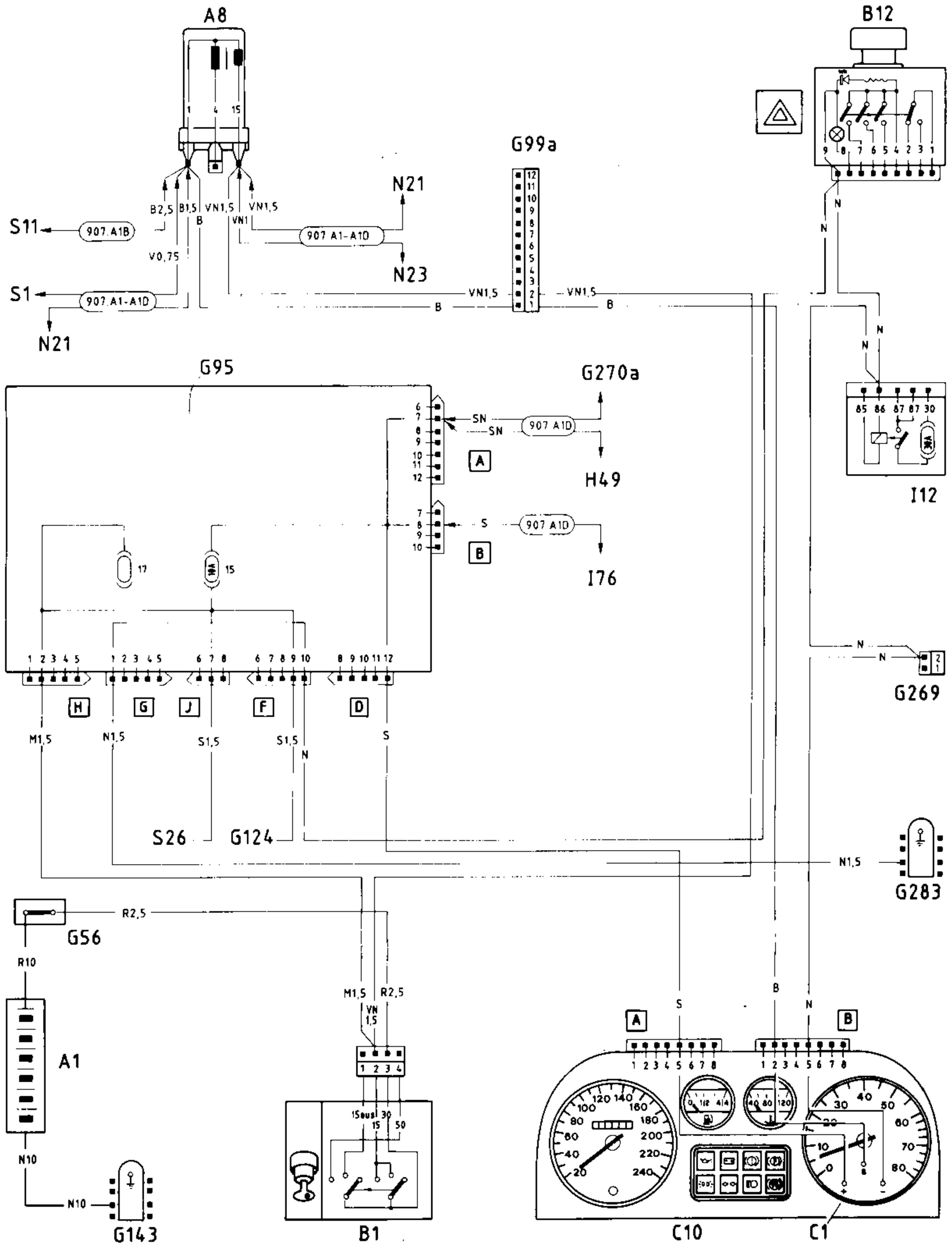
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 <p>R0.35 • G146 2</p> <p>Screening 1</p> <p>B0.35 • G146 1</p> <p>33.90.059</p>		 <p>R2.5 • B1</p> <p>R2.5 • B68 A</p> <p>R10 • A1 (+)</p> <p>33.90.066</p>	
<p>Central fusebox</p>	<p>G95 D</p>	<p>Central fusebox</p>	<p>G95 F</p>
 <p>S • C10 A 12</p> <p>33.90.004</p>		 <p>N • B12 10</p> <p>N • N22 10</p> <p>33.90.005</p>	
<p>Central fusebox</p>	<p>G95 G</p>	<p>Central fusebox</p>	<p>G95 H</p>
 <p>N1.5 • G283 1</p> <p>33.90.005</p>		 <p>M1.5 • B1 2</p> <p>33.90.004</p>	

# ELECTRICAL SYSTEM

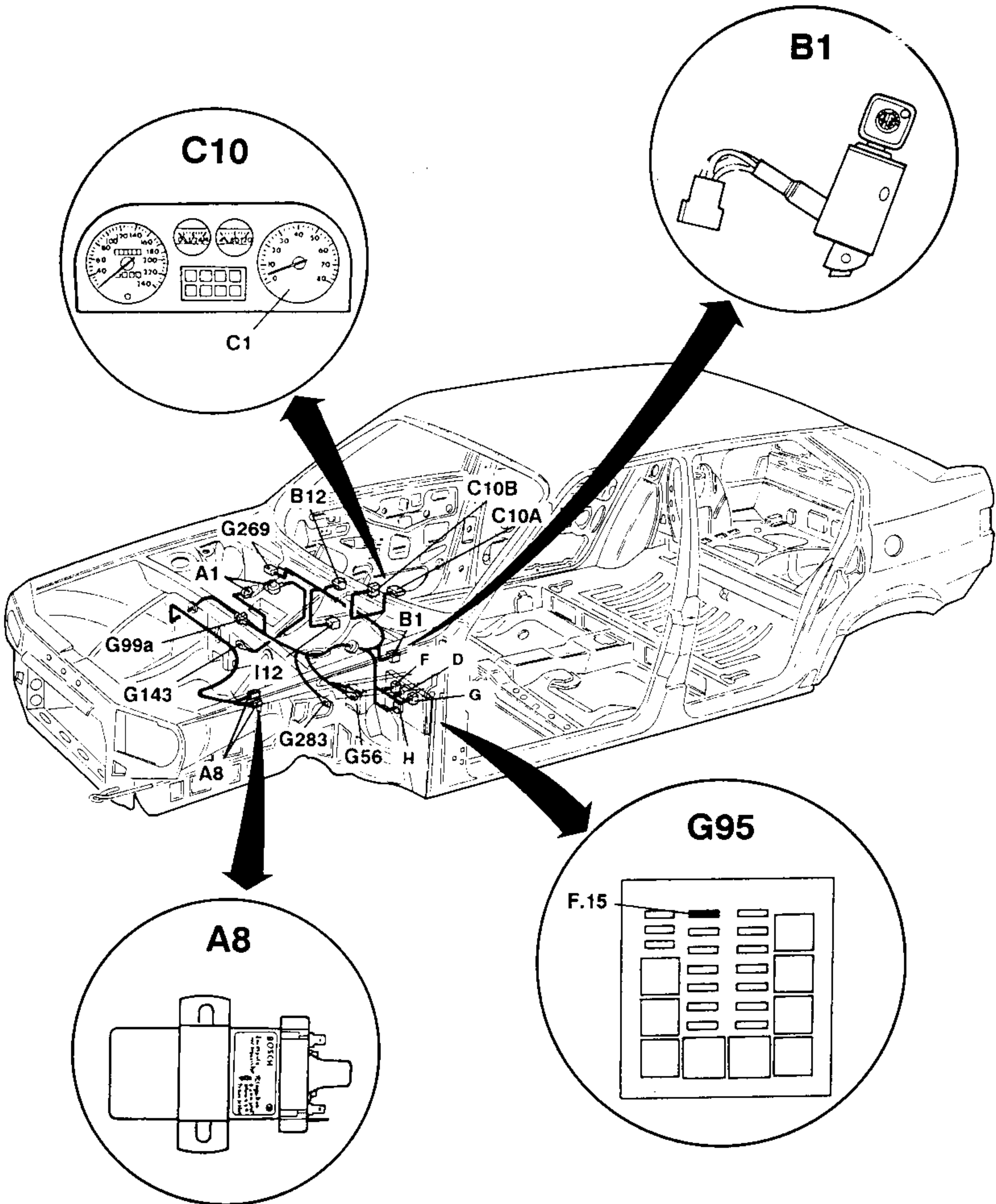
<p>Central service compartment earth</p> <p style="text-align: right;"><b>G143</b></p>	<p>Speedometer connection (before modification)</p> <p style="text-align: right;"><b>G146</b></p>	
 <p style="text-align: center;">33.90.001</p>	 <p style="text-align: center;">33.90.028</p>	
<p>Speedometer connection (after modification)</p> <p style="text-align: right;"><b>G146</b></p>	<p>Glove compartment lamp connection</p> <p style="text-align: right;"><b>G269</b></p>	
 <p style="text-align: center;">33.90.049</p>	 <p style="text-align: center;">33.90.013</p>	
<p>Earth on left service compartment</p> <p style="text-align: right;"><b>G283</b></p>	<p>Front power window relay</p> <p style="text-align: right;"><b>I12</b></p>	
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REVOLUTION COUNTER

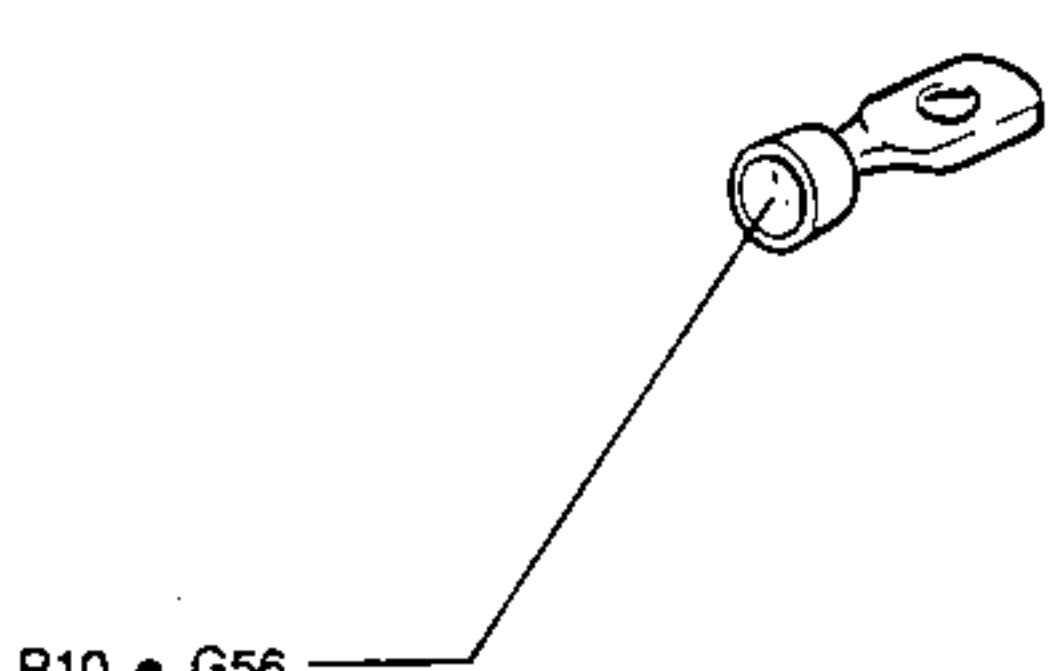
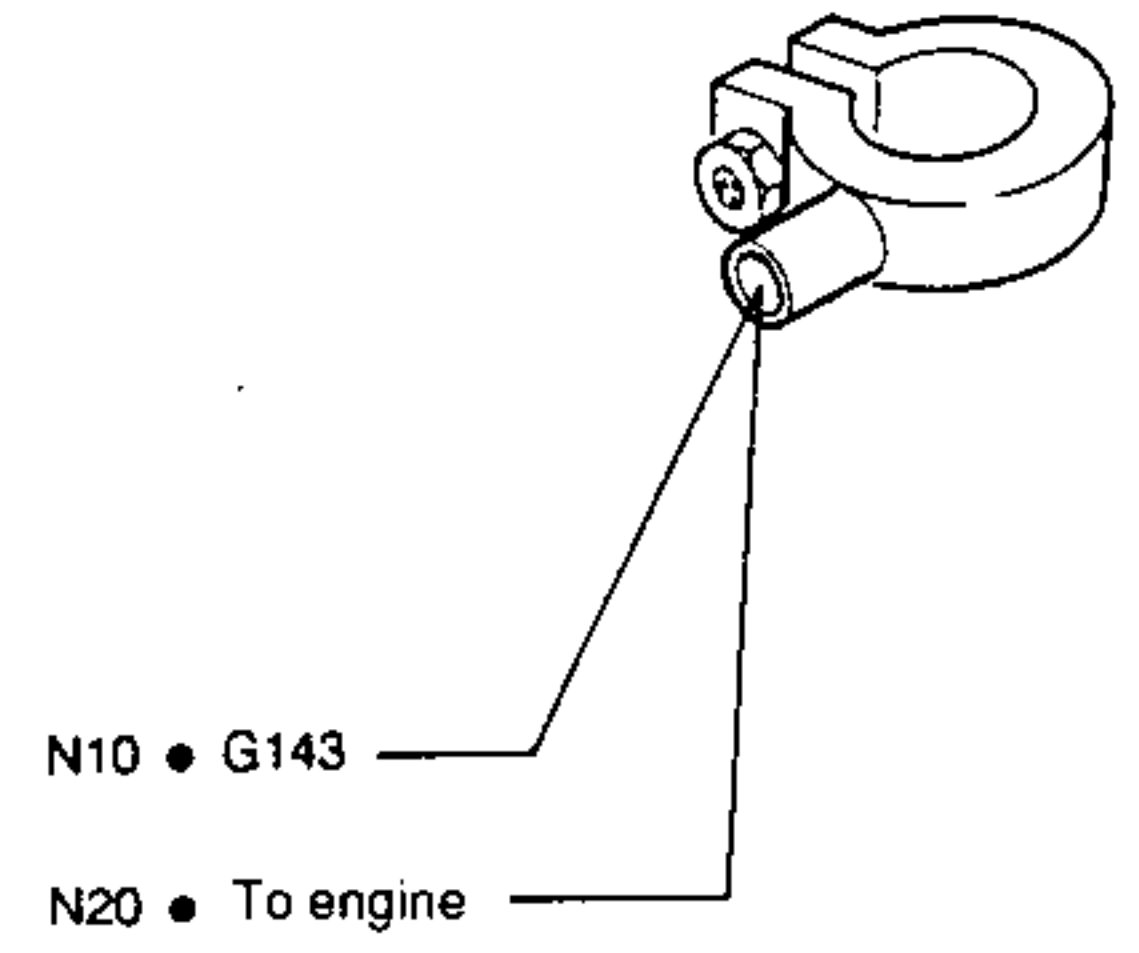
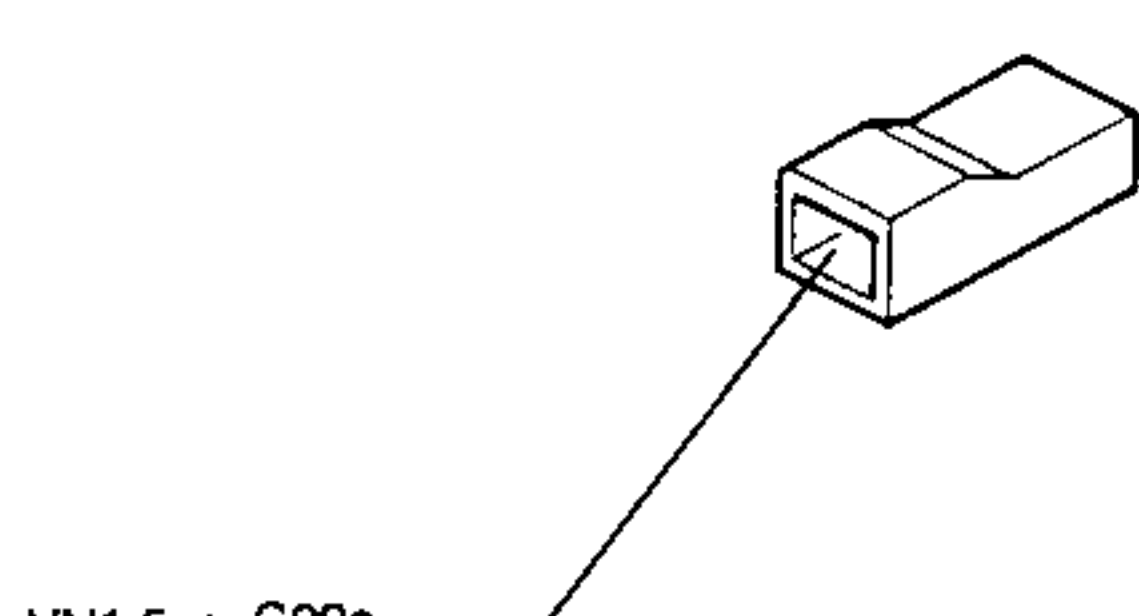
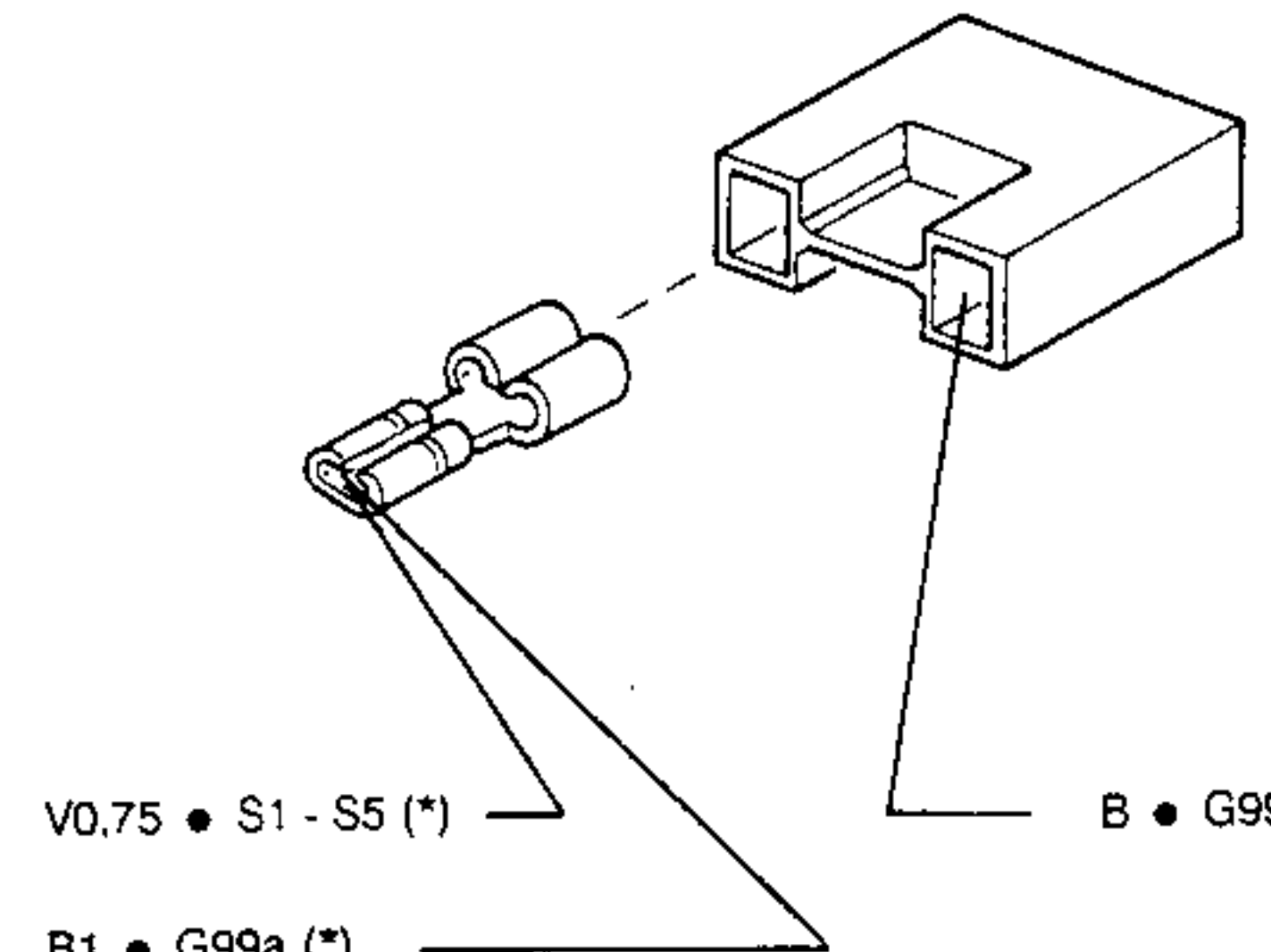
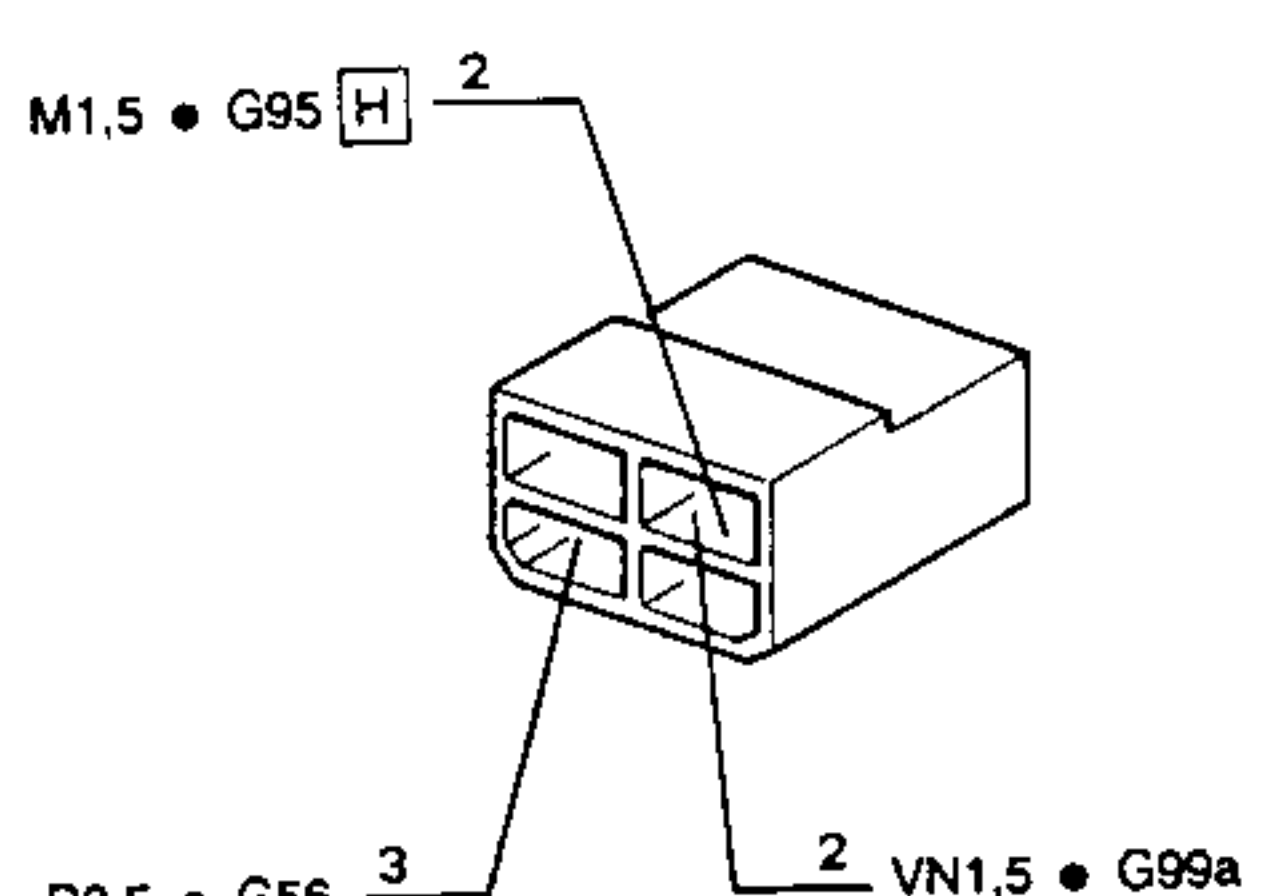
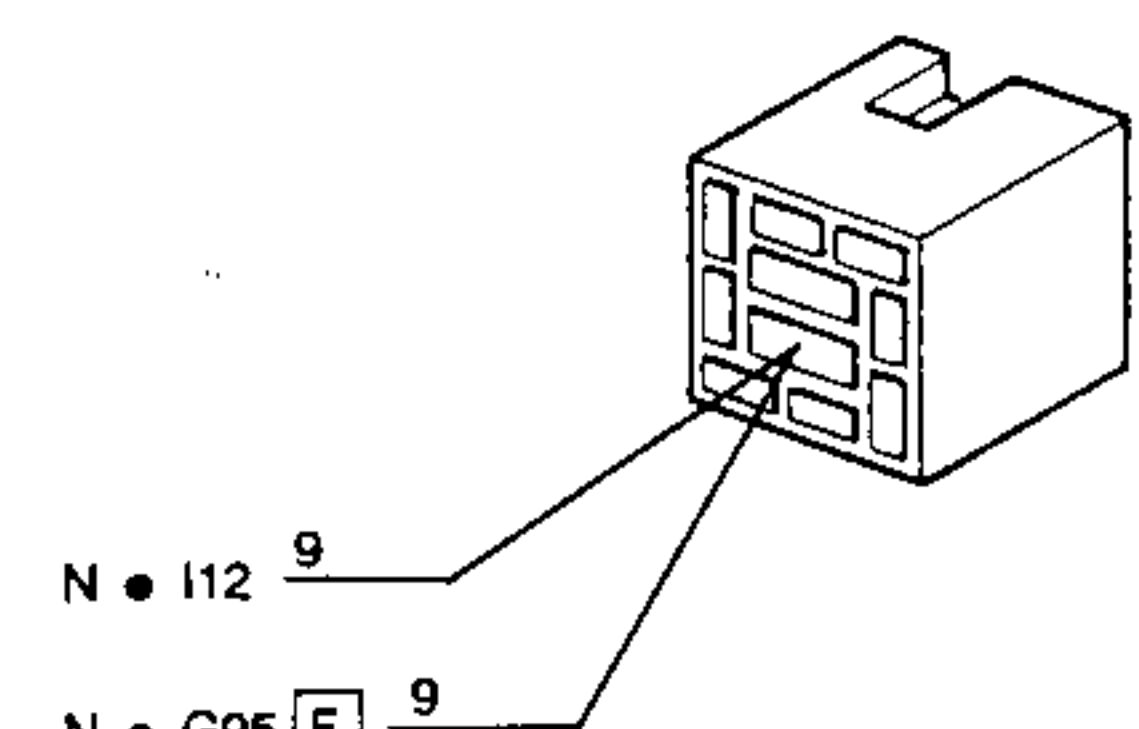
Wiring diagram



Wiring

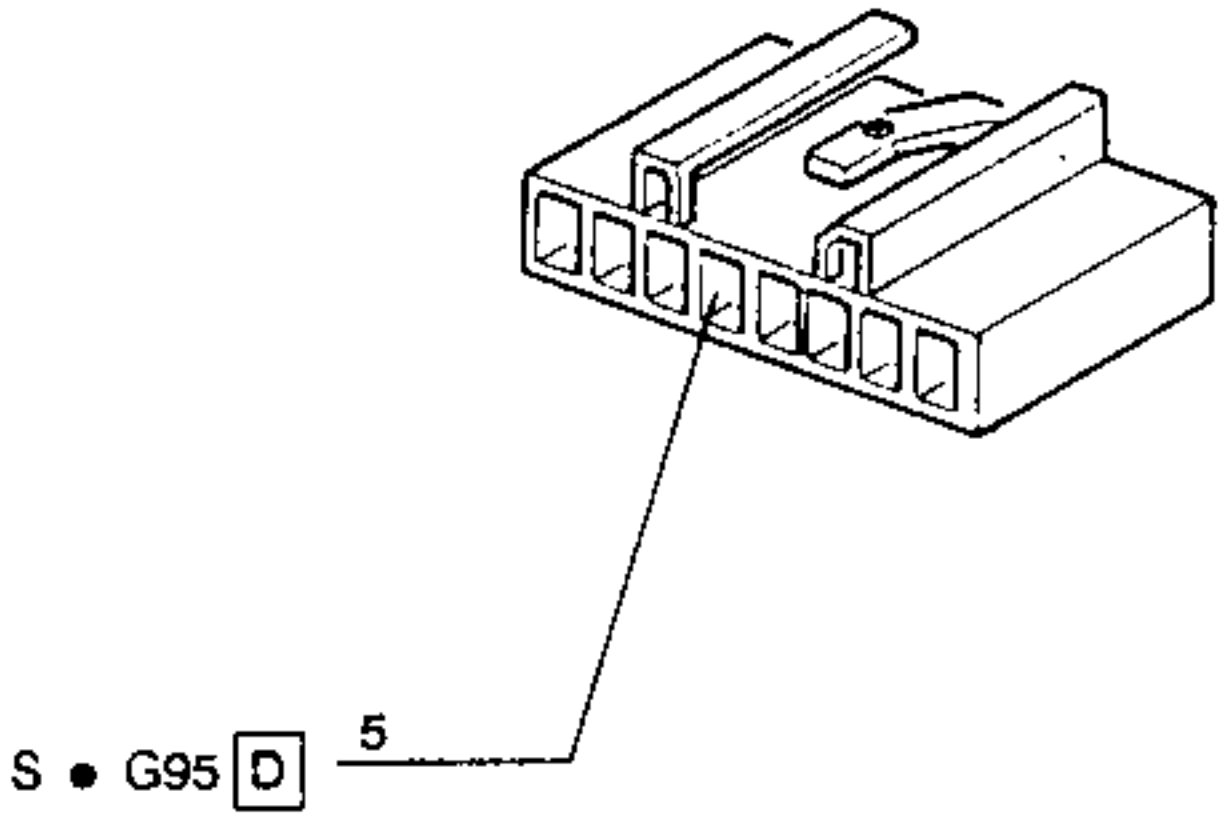
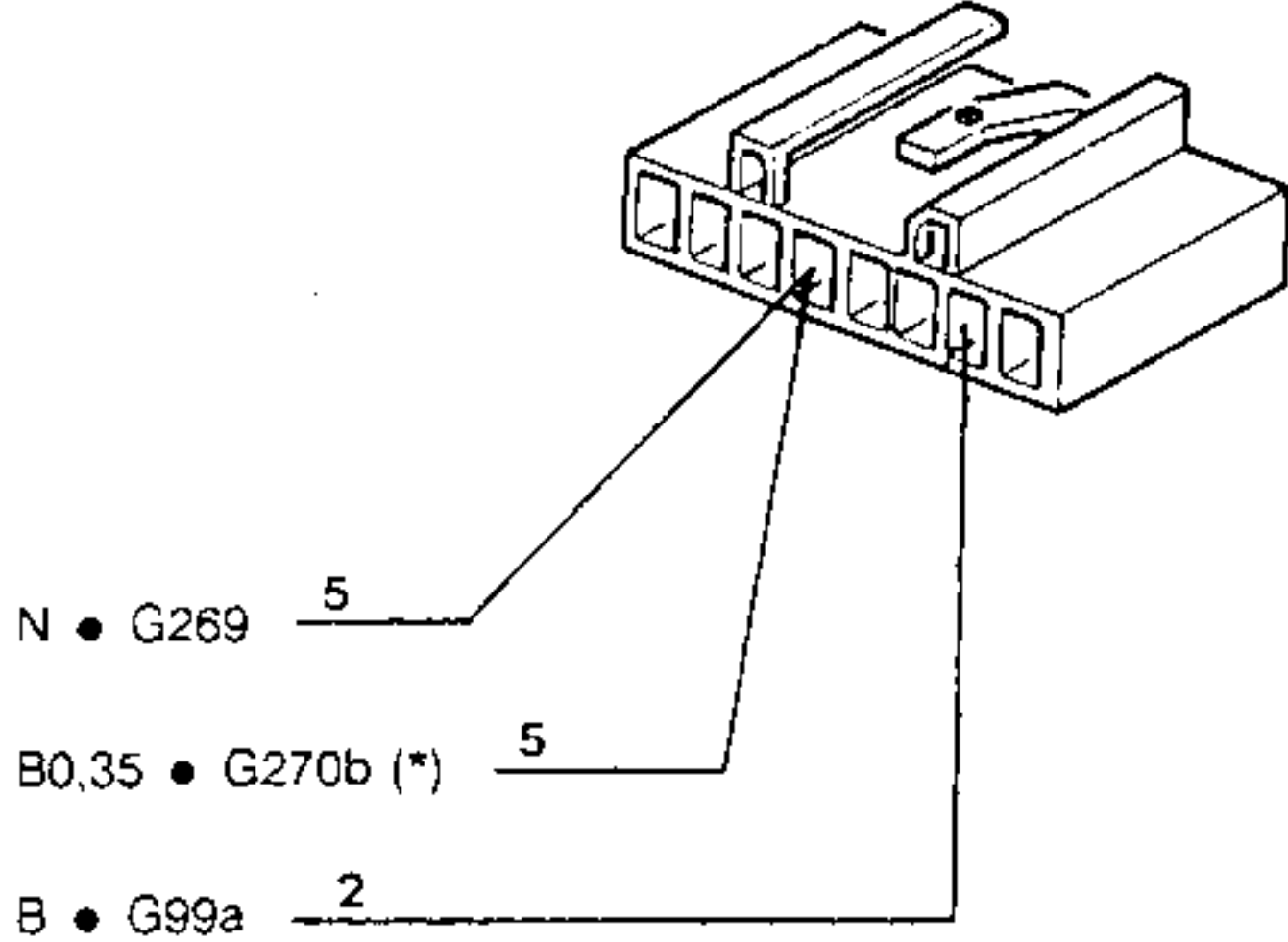
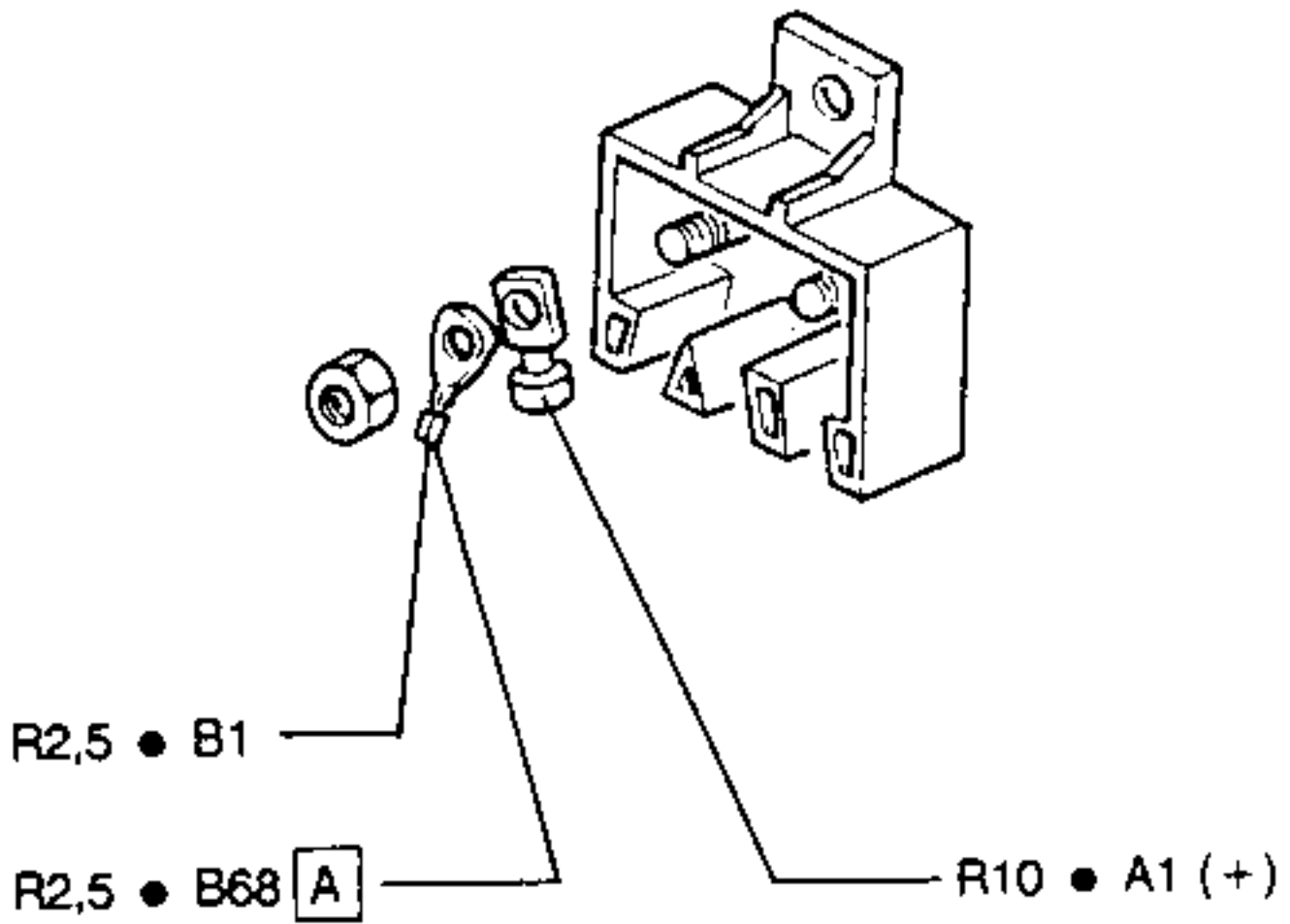
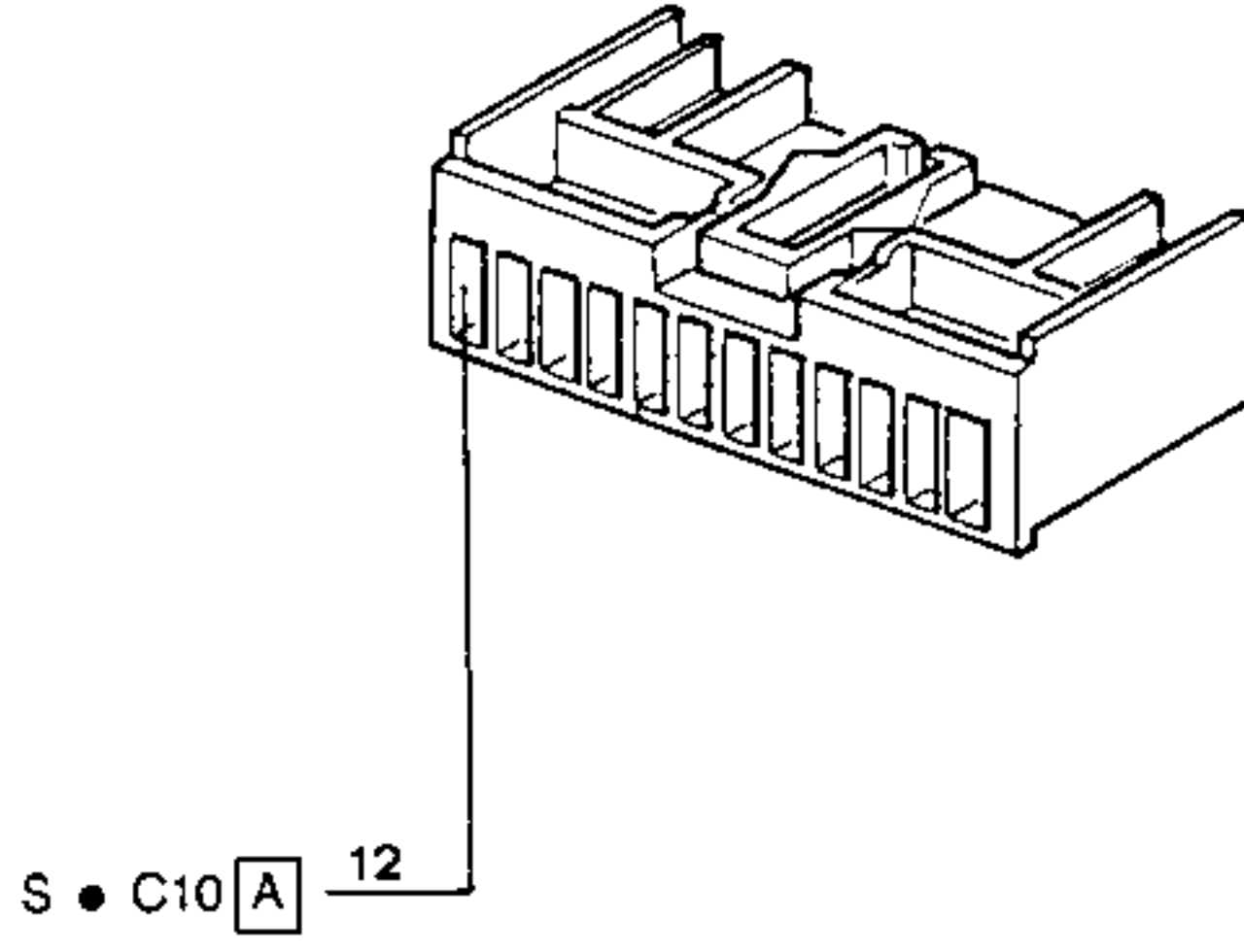
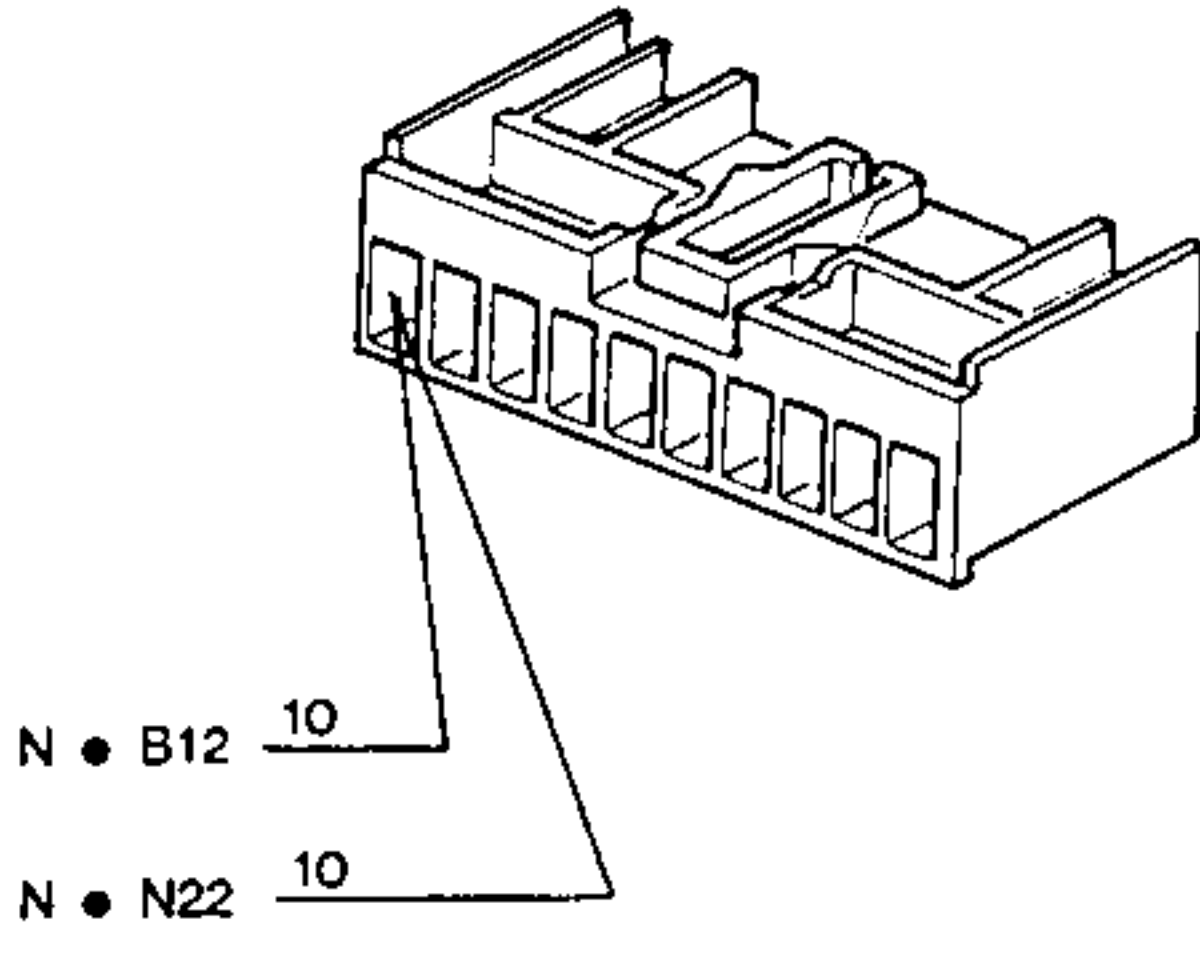
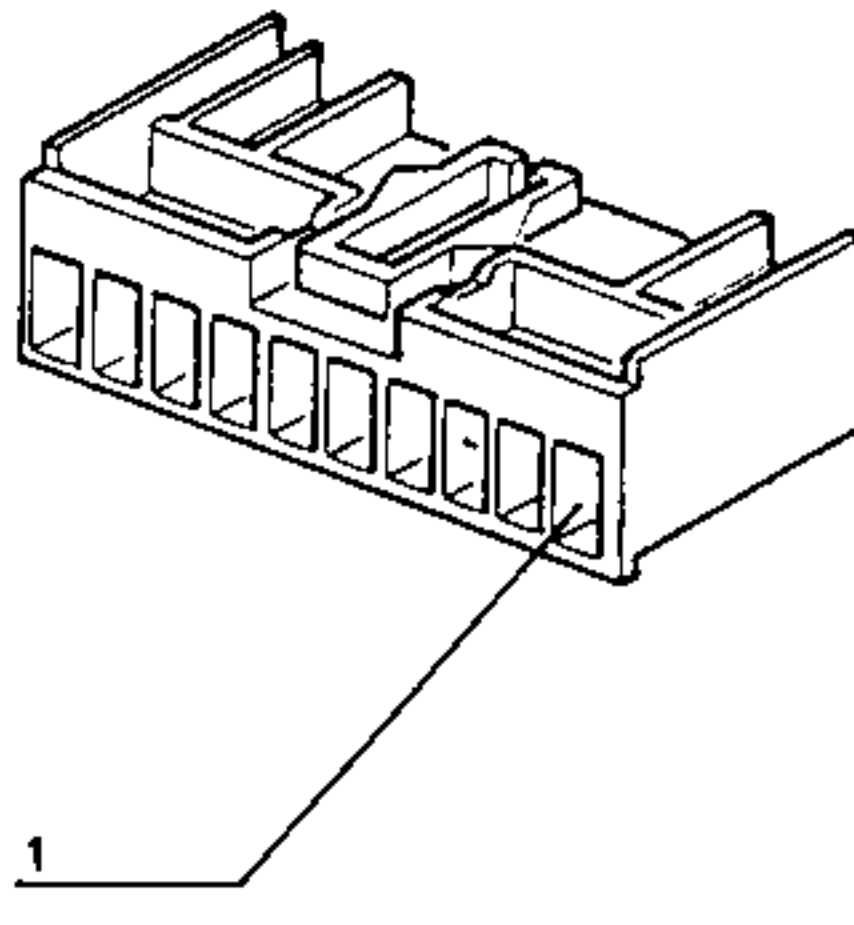


Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
<p>Ignition coil</p>	<p>A8</p>	<p>Ignition coil</p>	<p>A8</p>
 <p>VN1,5 • G99a</p> <p>33.90.015</p>		 <p>V0,75 • S1 - S5 (*)</p> <p>B1 • G99a (*)</p> <p>B • G99a</p> <p>33.90.052</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Hazard warning lights control switch</p>	<p>B12</p>
 <p>M1,5 • G95 [H] 2</p> <p>R2,5 • G56 3</p> <p>VN1,5 • G99a 2</p> <p>33.90.028</p>		 <p>N • I12 9</p> <p>N • G95 [F] 9</p> <p>33.90.008</p>	

(\*) Excluding version Boxer 16V

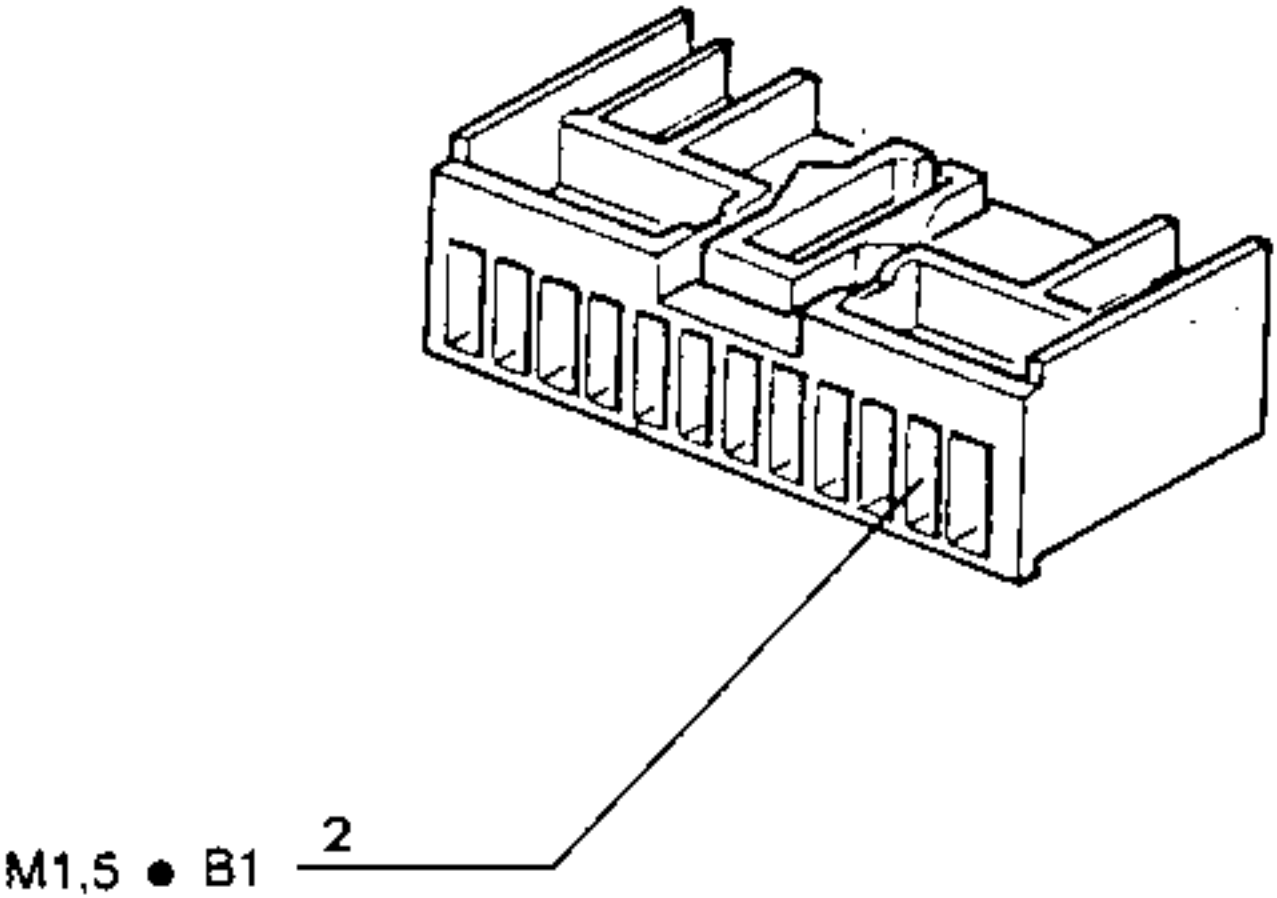
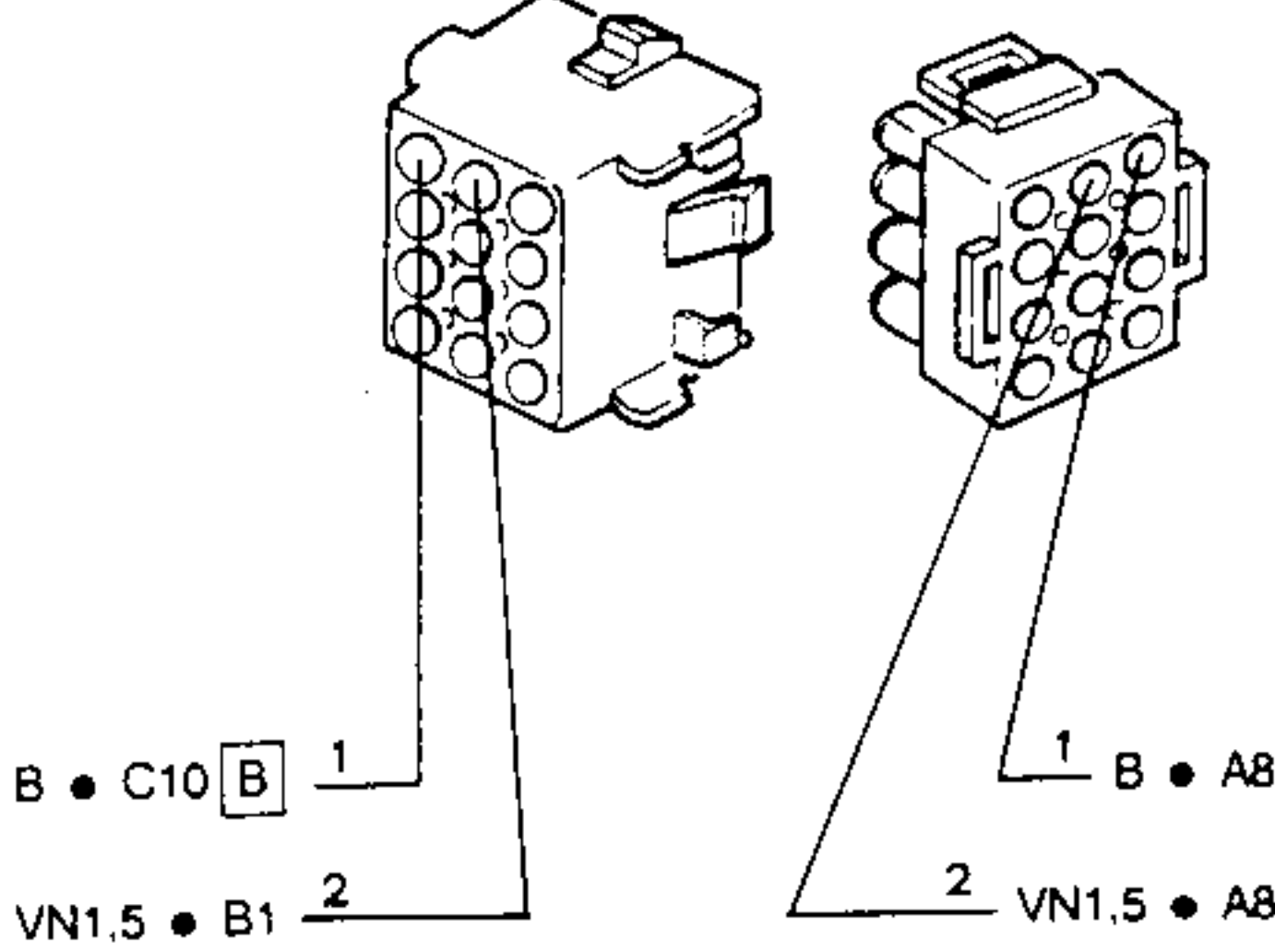
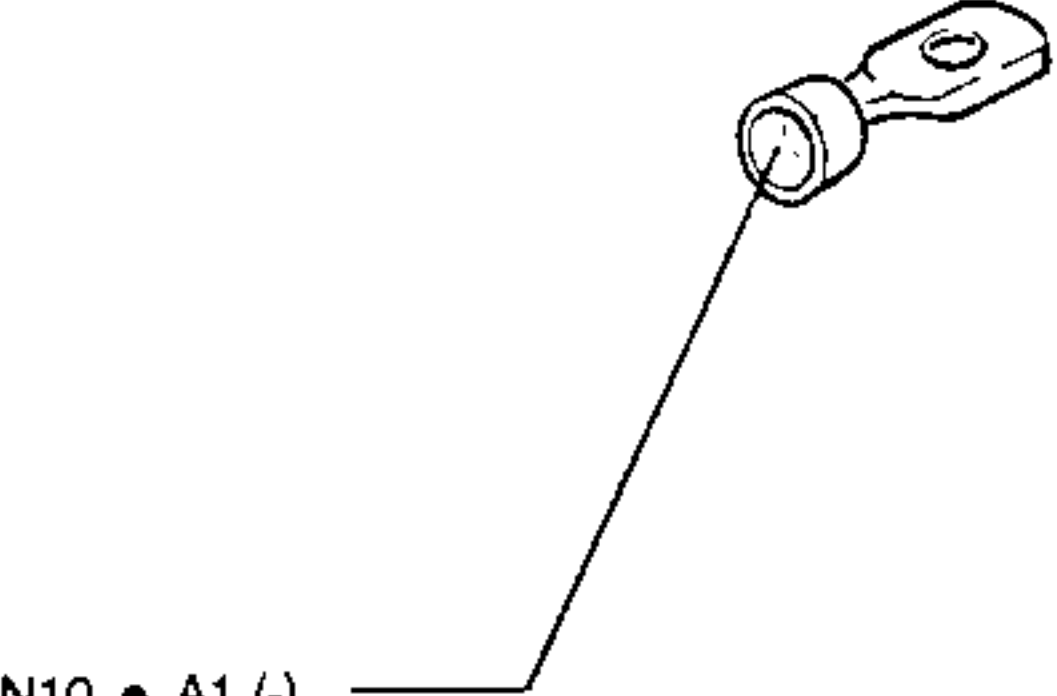
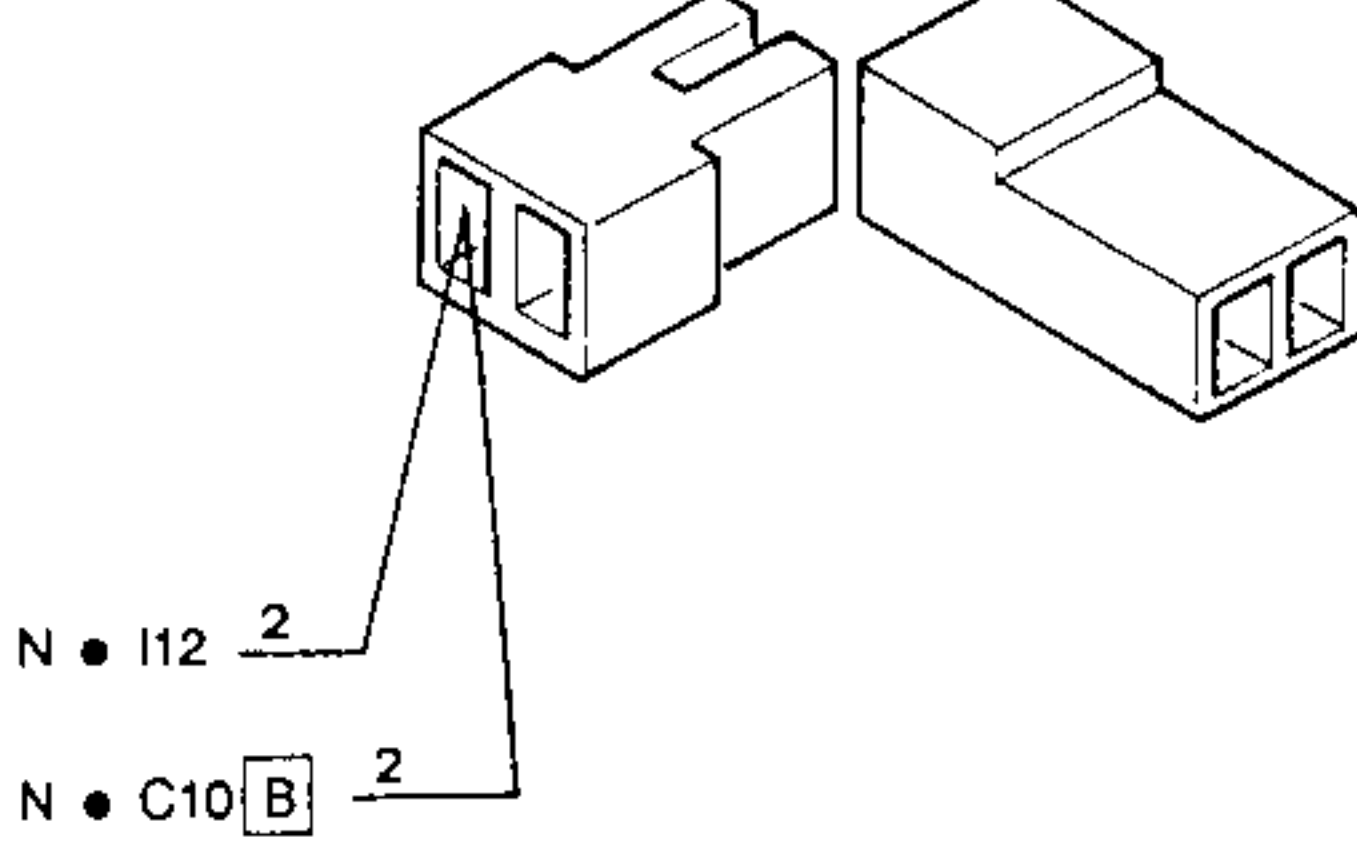
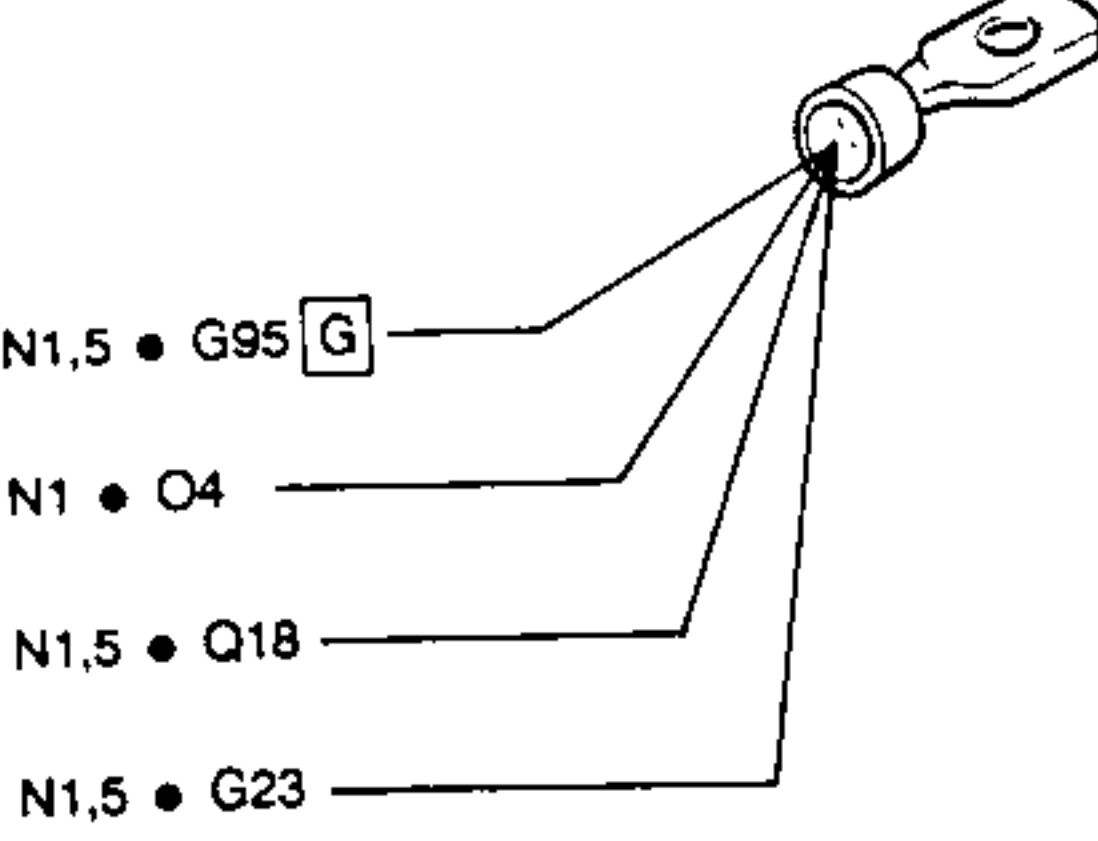
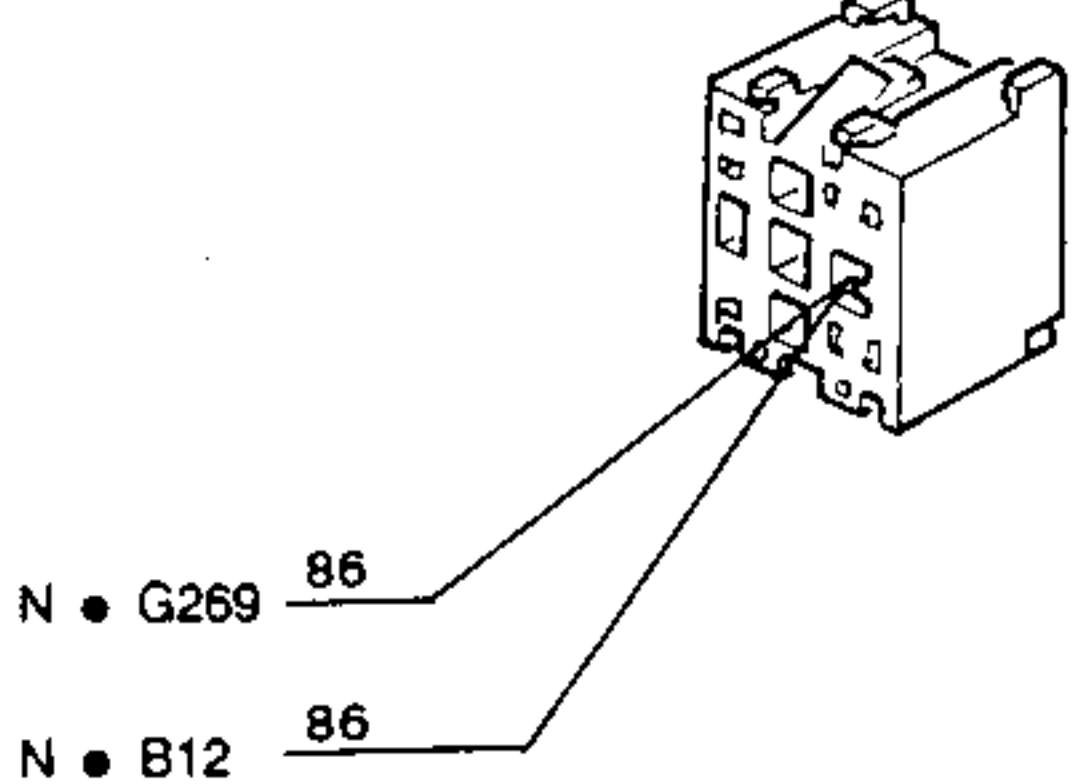
# ELECTRICAL SYSTEM

Instrument panel <b>C10 A</b>	Instrument panel <b>C10 B</b>
 <p>S ● G95 <b>D</b> 5</p>	 <p>N ● G269 5                  B0,35 ● G270b (*) 5                  B ● G99a 2</p>
33.90.024	33.90.024
Branch terminal board <b>G56</b>	Central fusebox <b>G95 D</b>
 <p>R2,5 ● B1                  R2,5 ● B68 <b>A</b>                  R10 ● A1 (+)</p>	 <p>S ● C10 <b>A</b> 12</p>
33.90.066	33.90.004
Central fusebox <b>G95 F</b>	Central fusebox <b>G95 G</b>
 <p>N ● B12 10                  N ● N22 10</p>	 <p>N1,5 ● G283 1</p>
33.90.005	33.90.005

(\*) Specific to 4 x 4 version



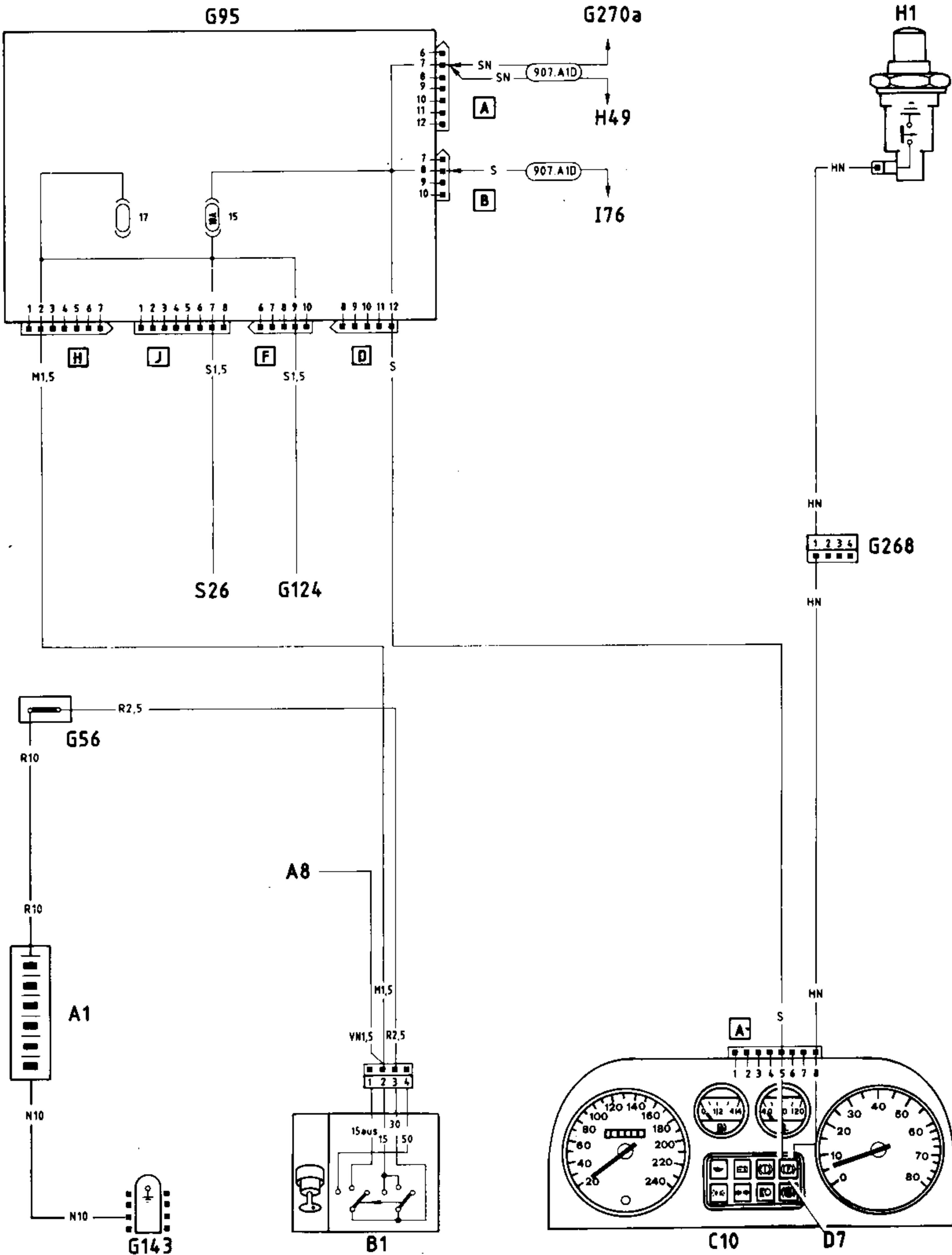
# ELECTRICAL SYSTEM

<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95   H</b></p>	<p><b>Connector for engine dashboard A</b></p> <p style="text-align: right;"><b>G99a</b></p>
 <p>M1,5 • B1 2</p> <p style="text-align: right;">33.90.004</p>	 <p>B • C10 B 1 VN1,5 • B1 2</p> <p>B • A8 1 VN1,5 • A8 2</p> <p style="text-align: right;">33.90.016</p>
<p><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>	<p><b>Glove compartment lamp connection</b></p> <p style="text-align: right;"><b>G269</b></p>
 <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>	 <p>N • I12 2 N • C10 B 2</p> <p style="text-align: right;">33.90.013</p>
<p><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>	<p><b>Front power window relay</b></p> <p style="text-align: right;"><b>I12</b></p>
 <p>N1,5 • G95 G N1 • O4 N1,5 • Q18 N1,5 • G23</p> <p style="text-align: right;">33.90.001</p>	 <p>N • G269 86 N • B12 86</p> <p style="text-align: right;">33.90.007</p>

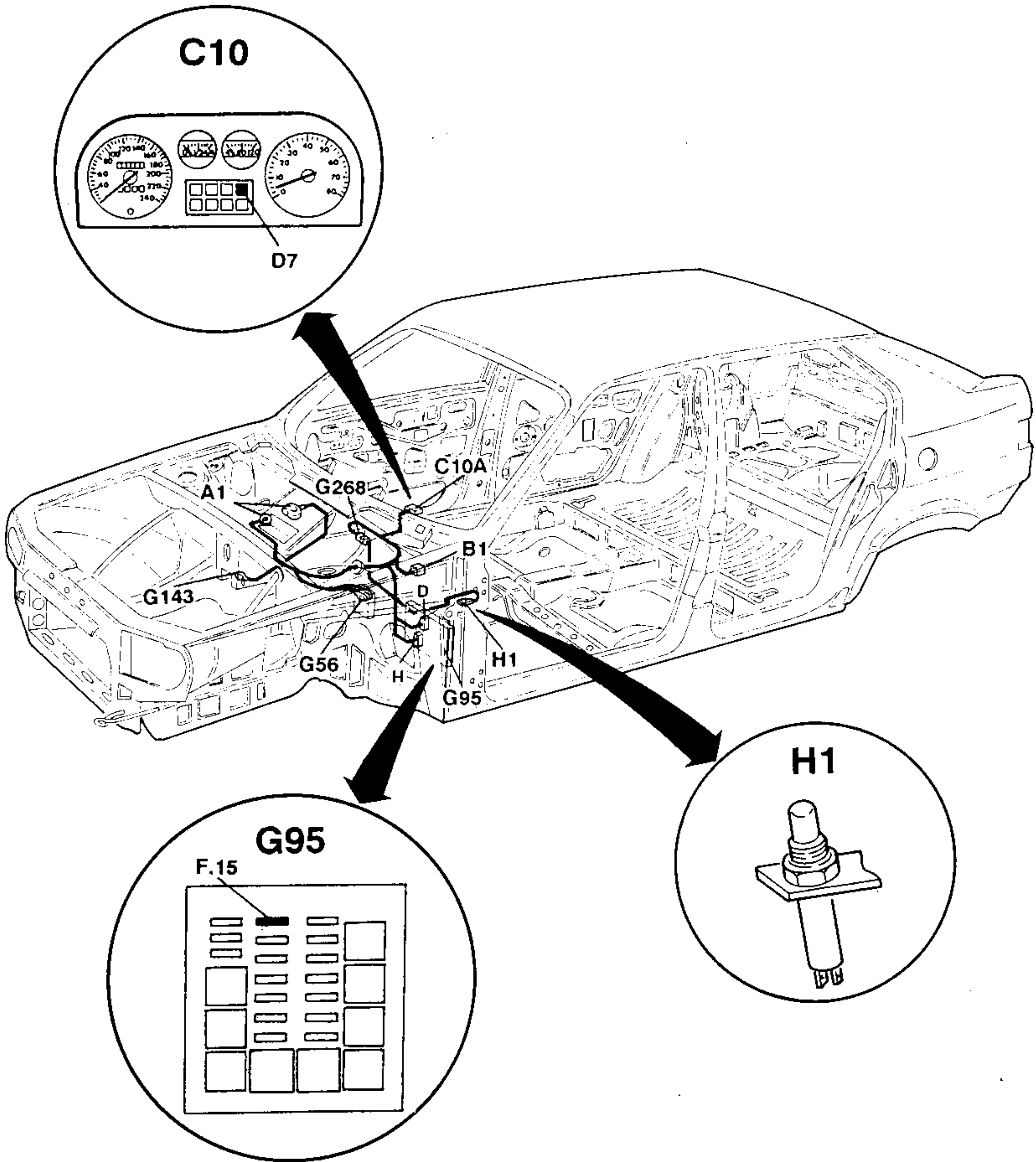
# ELECTRICAL SYSTEM

## HANDBRAKE

### Wiring diagram

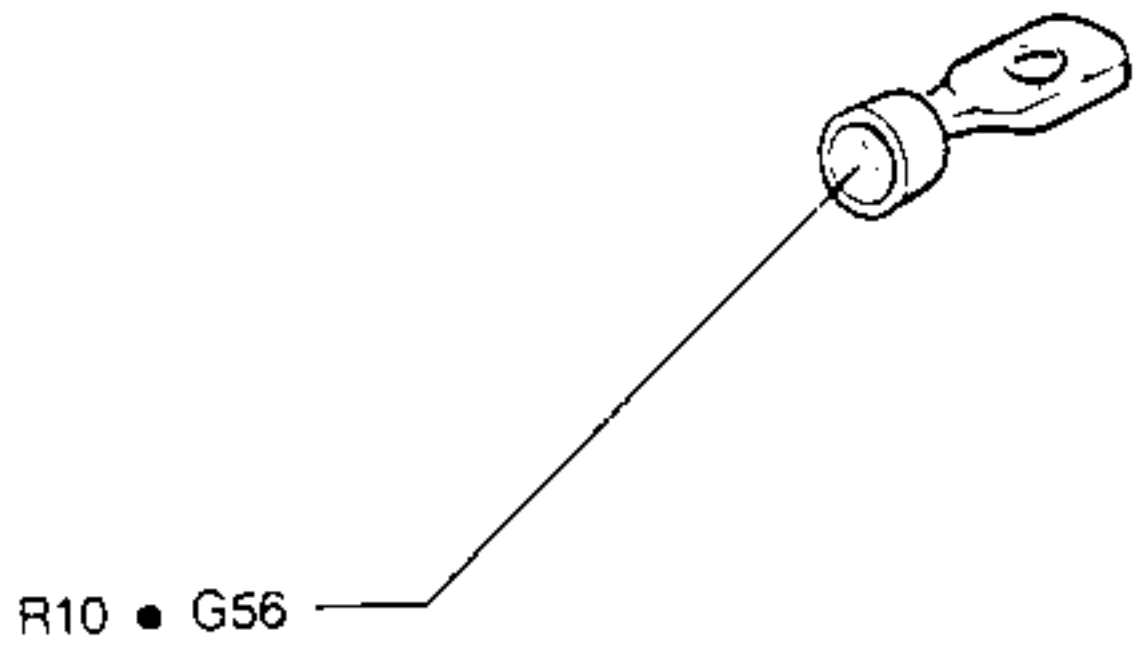
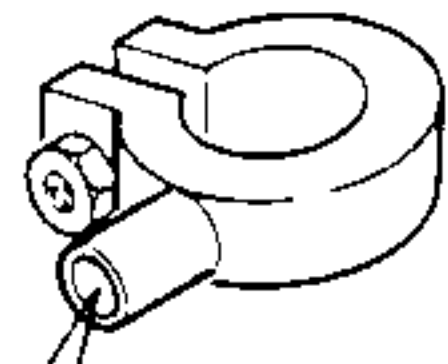
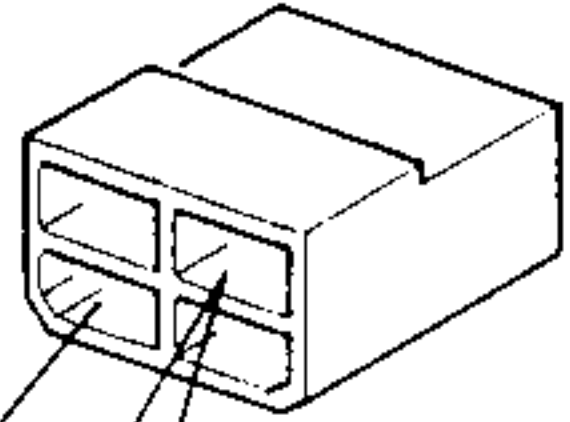
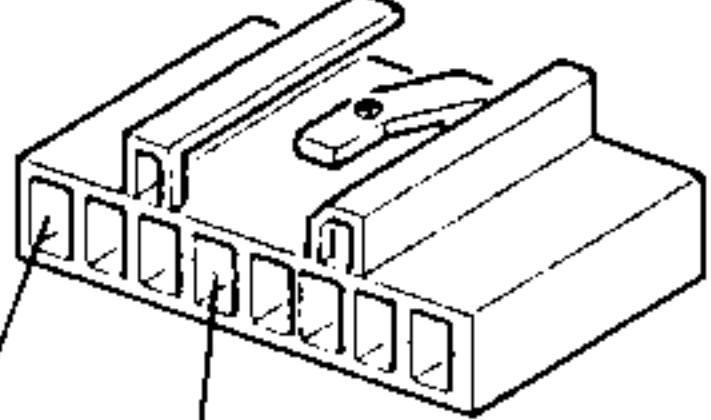
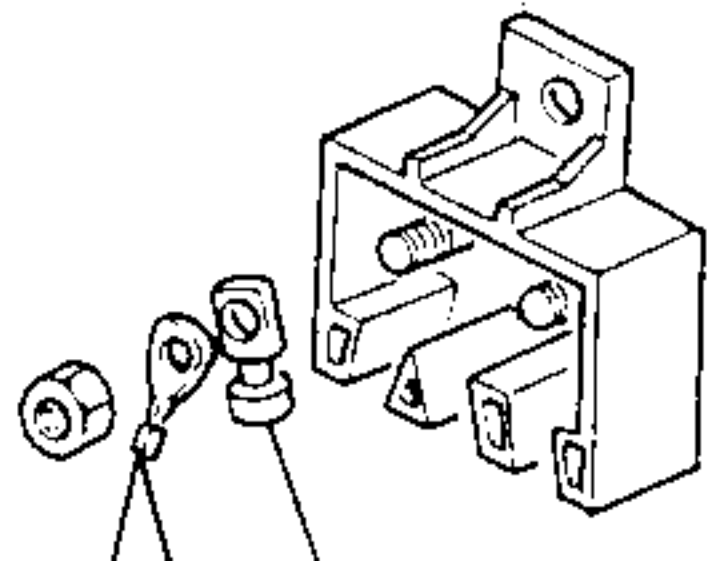
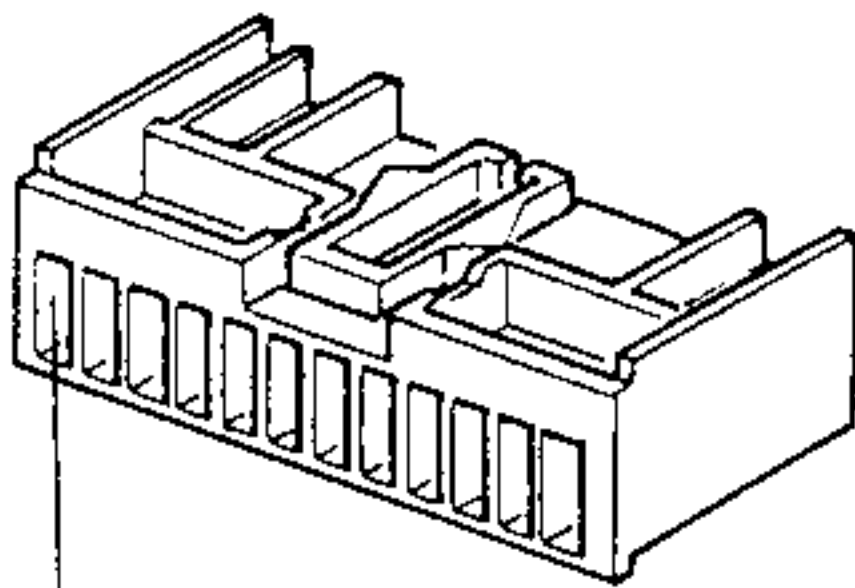


Wiring

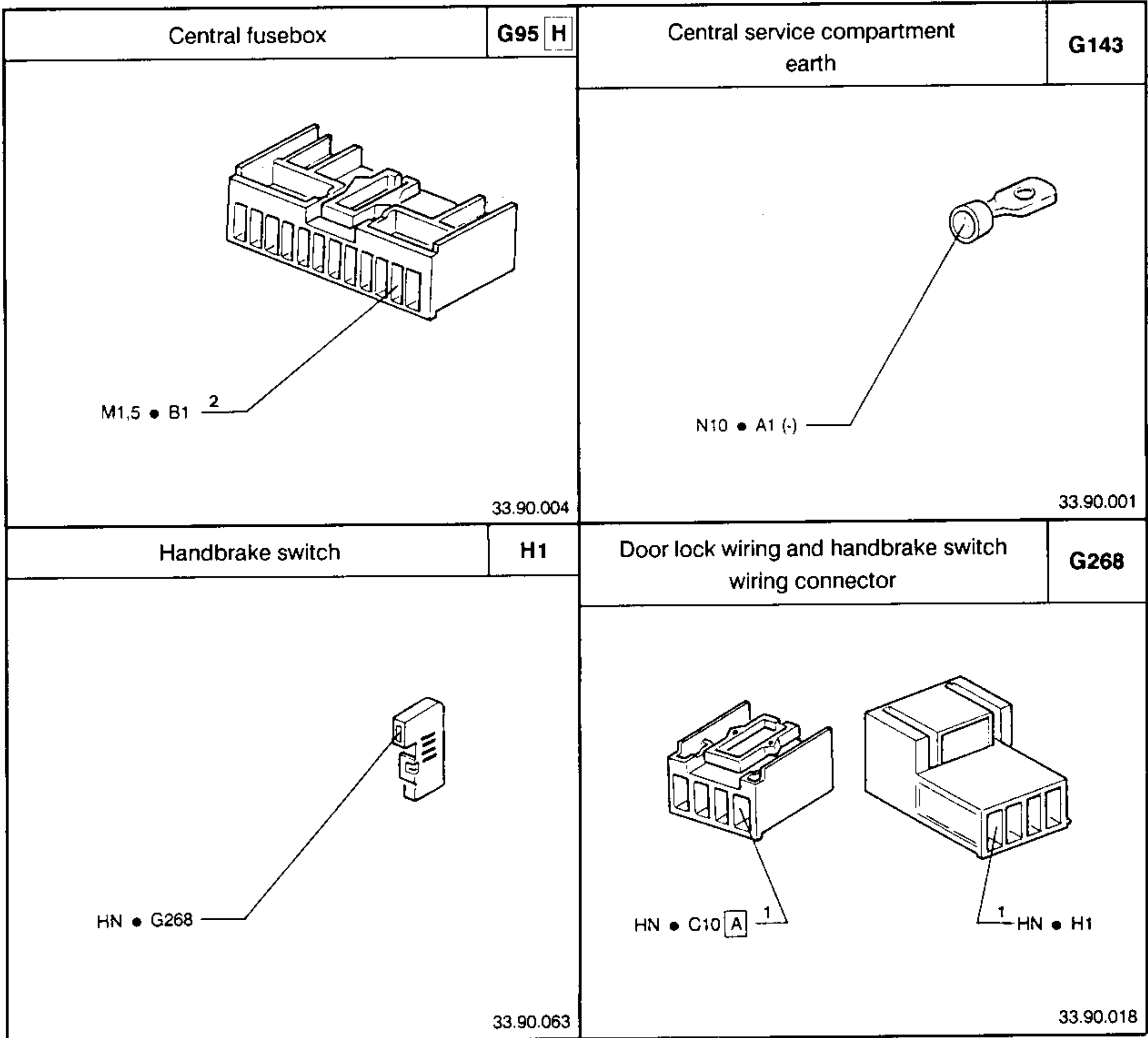


ELECTRICAL SYSTEM

Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N20 • To engine</p> <p>N10 • G143</p> <p>33.90.002</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Instrument panel</p>	<p>C10 A</p>
 <p>R2,5 • G56 3</p> <p>VN1,5 • G99b 2</p> <p>M1,5 • G95 H 2</p> <p>33.90.028</p>		 <p>HN • G268 8</p> <p>S • G95 D 5</p> <p>33.90.024</p>	
<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox</p>	<p>G95 D</p>
 <p>R2,5 • B1</p> <p>R2,5 • B68 A</p> <p>R10 • A1 (+)</p> <p>33.90.066</p>		 <p>S • C10 A 12</p> <p>33.90.004</p>	

ELECTRICAL SYSTEM



## BRAKING SYSTEM

### A.B.S. 2K BOSCH

#### Description

As an optional feature the vehicle can be equipped with the braking system fitted with the **A.B.S. 2K BOSCH** wheel antilocking system. The rôle of the ABS system is to prevent locking of the wheels whatever the conditions of the road surface, or braking force exerted, ensuring constant control of the vehicle and steering response.

Though carrying out the same type of regulation, the new system differs from the preceding one in its compactness; the ABS control unit being integrated with the hydraulic control unit without though increasing its dimensions. This is advantageous with regard to operation of the system.

Regulation of the braking force is also carried out by two crossed channels in exactly the same way as in vehicles with normal servo-assisted circuits.

The ABS 2K braking system can therefore be regarded as optimizing the normal braking system which takes into account all the requirements of the driver: safety, comfort, dimensions and performance.

An electrohydraulic group controlled by an **electronic control unit** (N51) increases, maintains or decreases brake fluid pressure on one or other of the circuits when the **sensors** (L28 - L29 - L30 - L31), placed near each wheel, signal an attempt by one of the wheels to lock. In this case the control unit reduces pressure in the relevant circuit.

Rotating the ignition key from "GARAGE" to "MARCIA" the **ABS warning lamp** (D27) is illuminated

instrument panel:

- if the system is functioning correctly and no anomalies are present the warning light is extinguished a few seconds after the engine has been started;
- if the warning light remains on or comes on when the car is moving this signals that at least one anomaly is present in the ABS circuit.

Thanks to the system's autodiagnosis function, it is possible to identify the anomaly using the Alfa Tester or the diagnostic procedure employing flashing described below.

#### FLASHING LAMP CODE

##### "ABS 2K"

The procedure of diagnosis by flashing lamp code takes into account all the components of the system and can identify all defects that can arise during use of the vehicle.

#### Structure and visualization of the errors

Each code (anomaly) is visualized by the ABS warning light and is repeated three times during diagnosis. Each code is composed of a two figure decimal code. This number is represented in output beginning from the most significant figure.

The number of pulsations corresponds to the numerical value of the relevant figure.

Example: 35



#### Sequence of operation

- Connect the cable of line L (cable AB1) to earth, in this way activating the diagnostic procedure.

This activation though is not possible if a fault is present in line L, on the safety warning lamp or in the control unit (on the autodiagnosis channel).

- Rotate the ignition key from "GARAGE" to "MARCIA" in order to supply the control unit. In this situation the control unit has identified the activating of the flashing code.

(Warning light out).

- The warning light will display code 12 for 3 times which identifies start of the diagnosis.
- After 3.2 seconds from the last flash, all the anomalies memorized by the control unit will be displayed. In the event that there is more than one, the display will be random and not taken in priority regarding the gravity of the anomaly.
- Once all the errors have been displayed code 12 will reappear.
- At this point the diagnosis is terminated and line L can be disconnected from the earthing point.

The diagnosis can be interrupted at any moment by disconnecting line L from the earthing point.

- After 2 seconds have passed from this final operation the ABS system is re-set (if no errors have been detected).

## ELECTRICAL SYSTEM

Once the anomaly has been put right it should be cancelled from the control unit's internal memory.

In order to do this two methods may be employed:

- with the Alfa Romeo Tester;
- with 20 commutations of the ignition switch B1.

Annulment of the diagnosis is brought about if one wheel reaches a speed (real or simulated) exceeding 10 km/hr; at the same time the ABS function is deactivated (warning light on).

In the event of it becoming necessary to disconnect the collector comb (G273) from the electronic control unit it is advisable to first disconnect the intermediate wiring connector (G274).

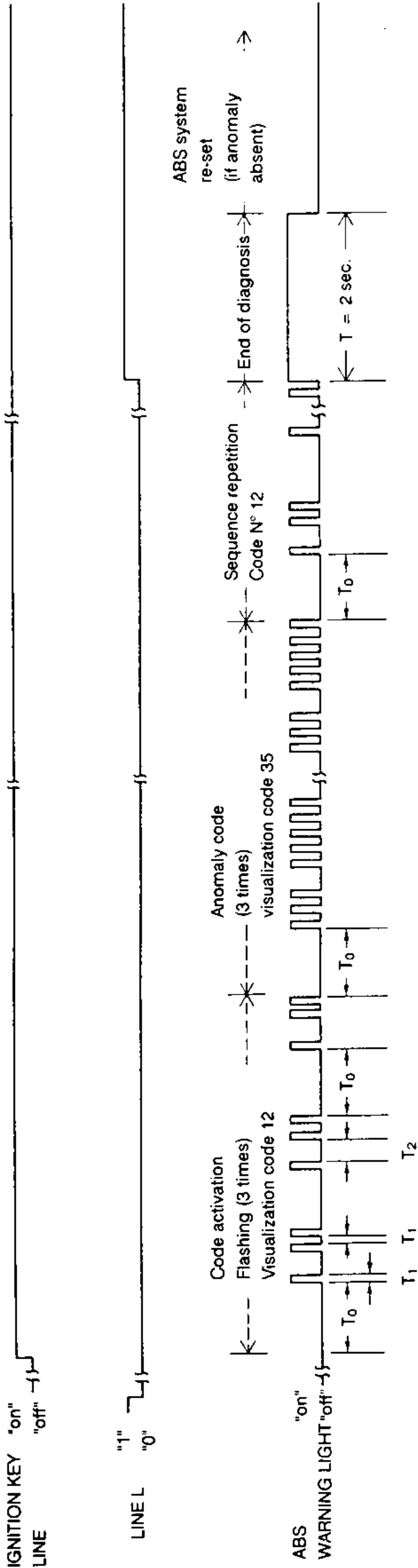
### ABS 2K FLASHING CODE VALUES

CODES	DEFECT POSITION	DEFECT TYPE
12	Start and end of flashing code	
16	Front left valve	Defective
17	Front right valve	Defective
19	Relay valve	Defective
25	Toothed gear on one of the wheel	No. of teeth incorrect (*)
35	Pump	Defective
37	Brake switch	Interrupted
39	Front left sensor	Weak or absent signal
42	Front right sensor	Weak or absent signal
44	Rear left sensor	Weak or absent signal
46	Rear right sensor	Weak or absent signal
48	Battery voltage and relay valves	Low voltage
55	Control unit	Defective

(\*) Detected by the control unit with autodiagnosis function only if a difference in tothing is present.

VISUALIZATION OF THE ERROR CODES

Diagram - Diagnosis identification



Time between activation and visualization of errors

.....  $T_0 = 3,2 \pm 0,2$  seconds

Time ABS warning light remains ON

.....  $T_1 = 0,4 \pm 0,02$  seconds

Time ABS warning light remains OFF

.....  $T_1 = 0,4 \pm 0,02$  seconds

Pause between figures of same code

.....  $T_2 = 1,2 \pm 0,1$  seconds

Pause in same code

.....  $T_0 = 3,2 \pm 0,2$  seconds

Pause in different codes

.....  $T_0 = 3,2 \pm 0,2$  seconds

Pause in different codes

.....  $T_0 = 3,2 \pm 0,2$  seconds

Time between end of diagnosis and re-activation of system

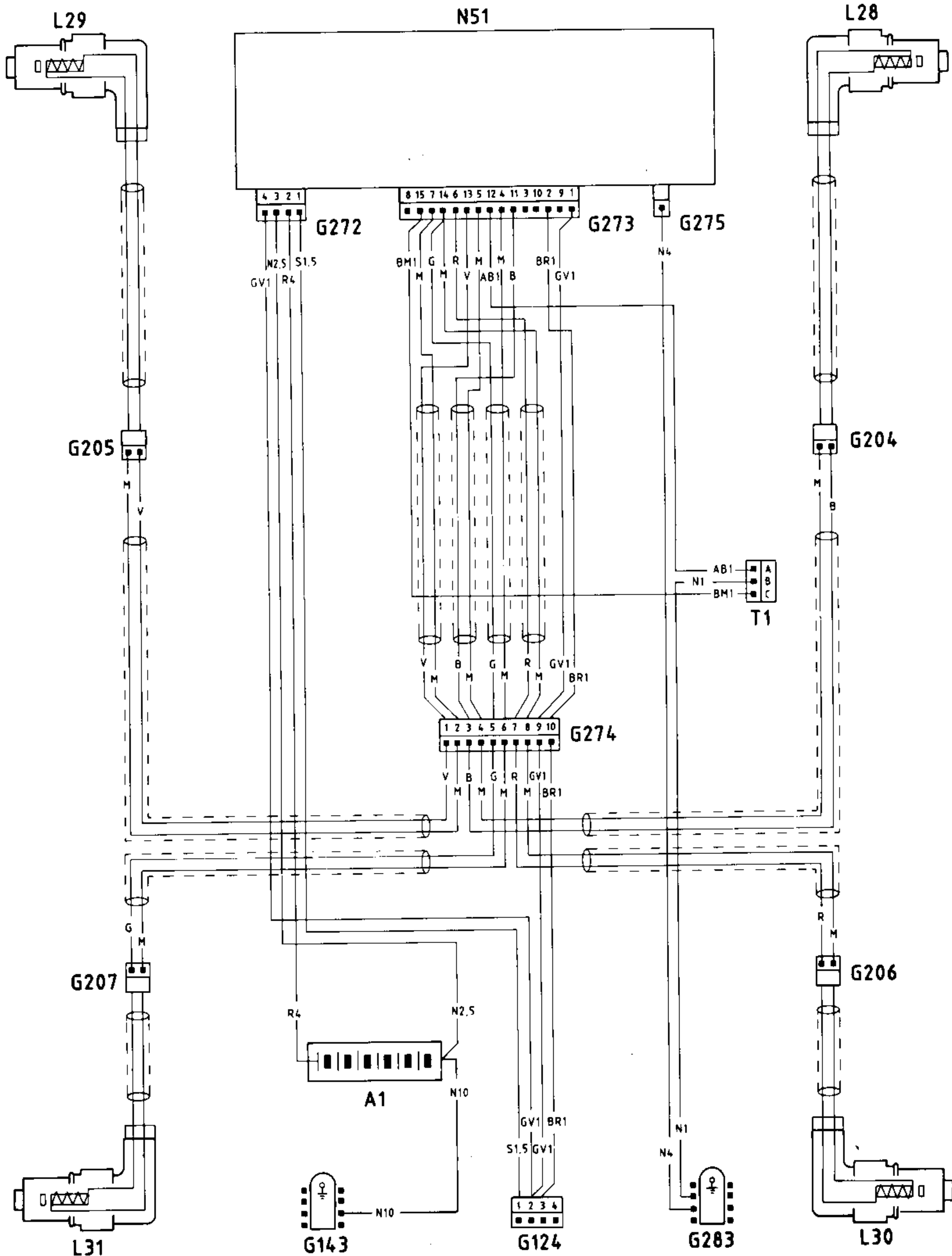
.....  $T = 2$  seconds



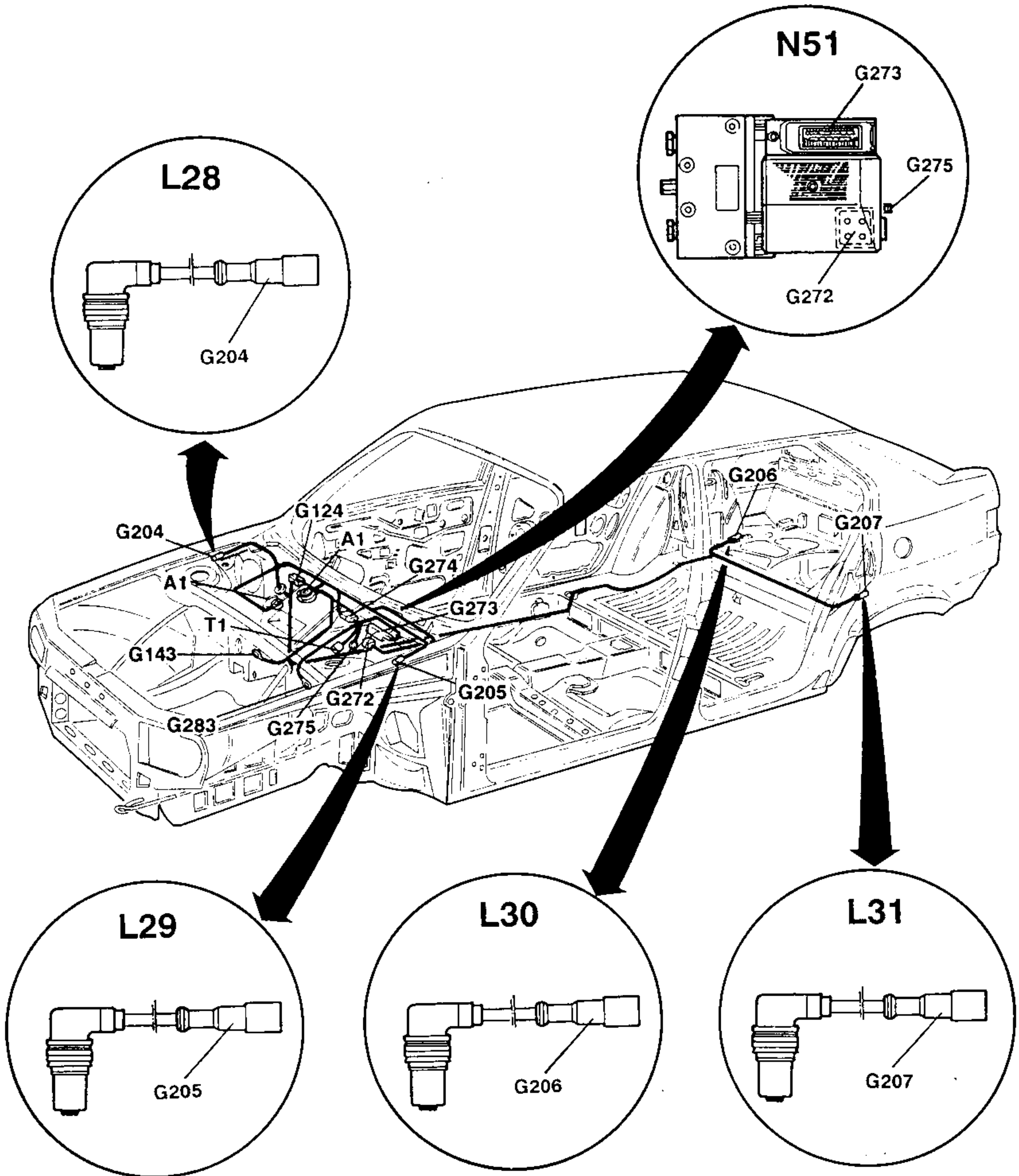
# ELECTRICAL SYSTEM

## Wiring diagram (Diagram A)

A.B.S. 2K BOSCH

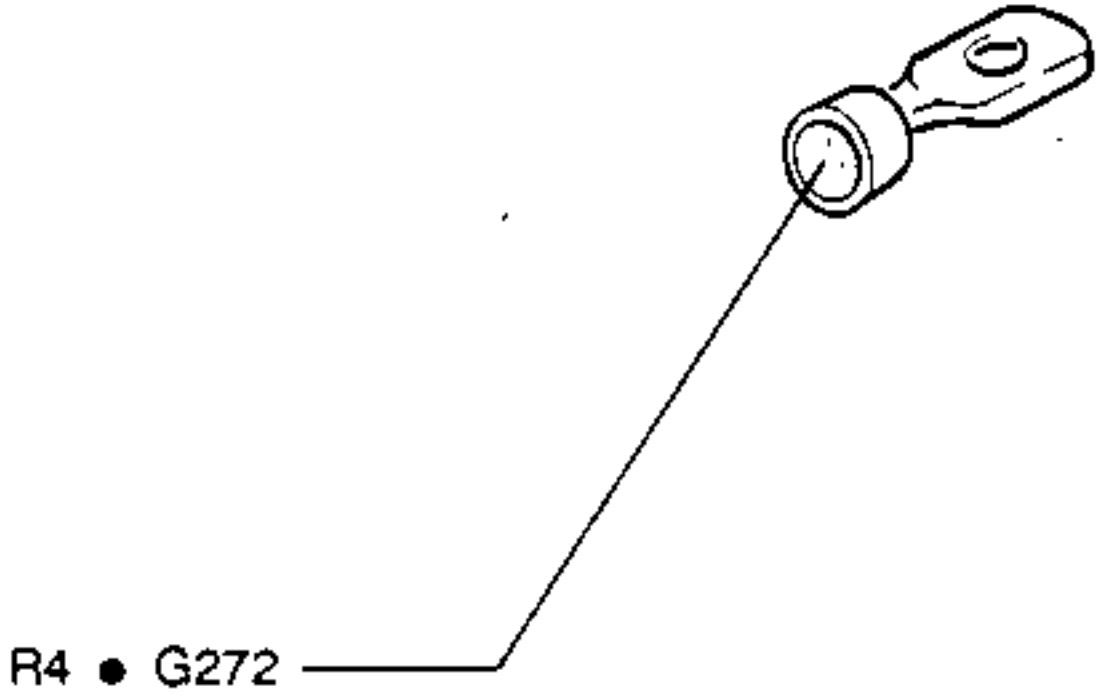
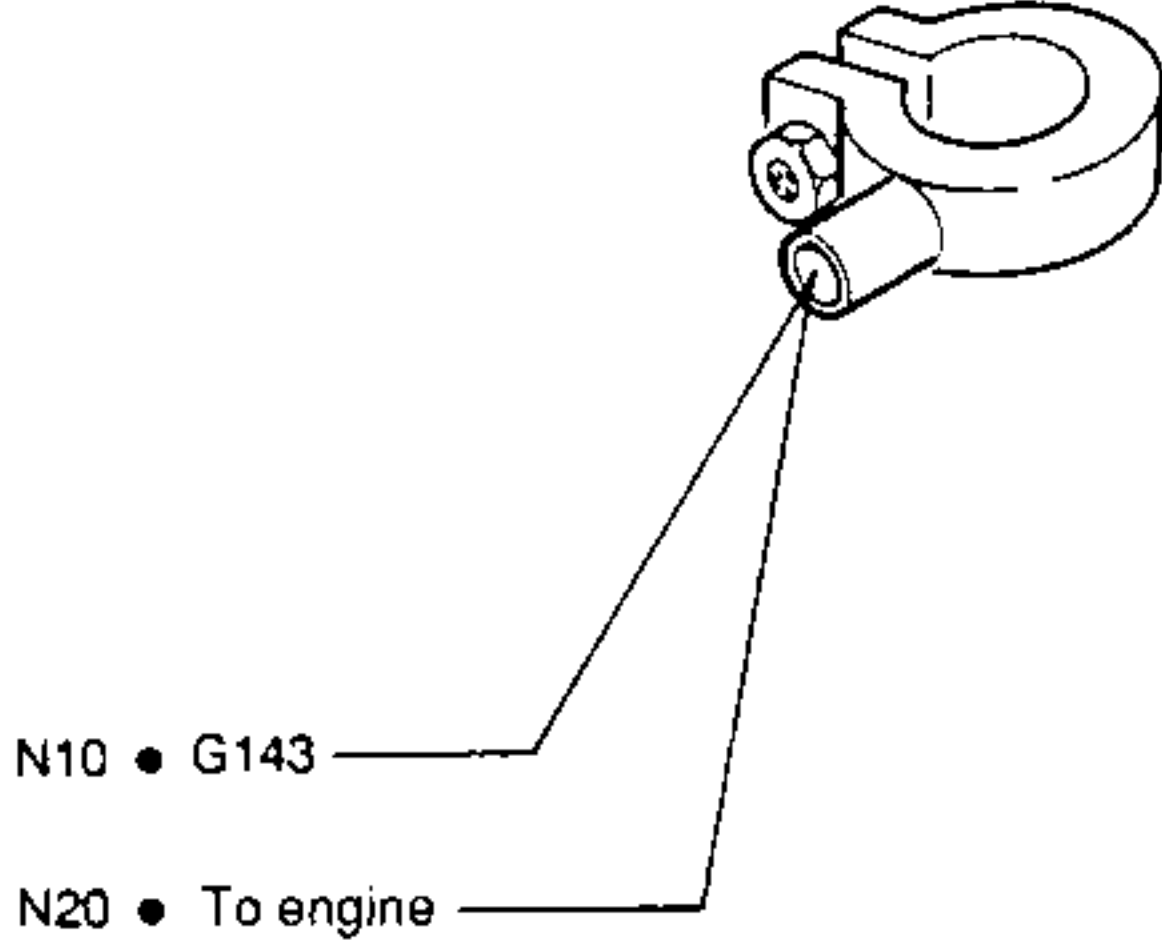
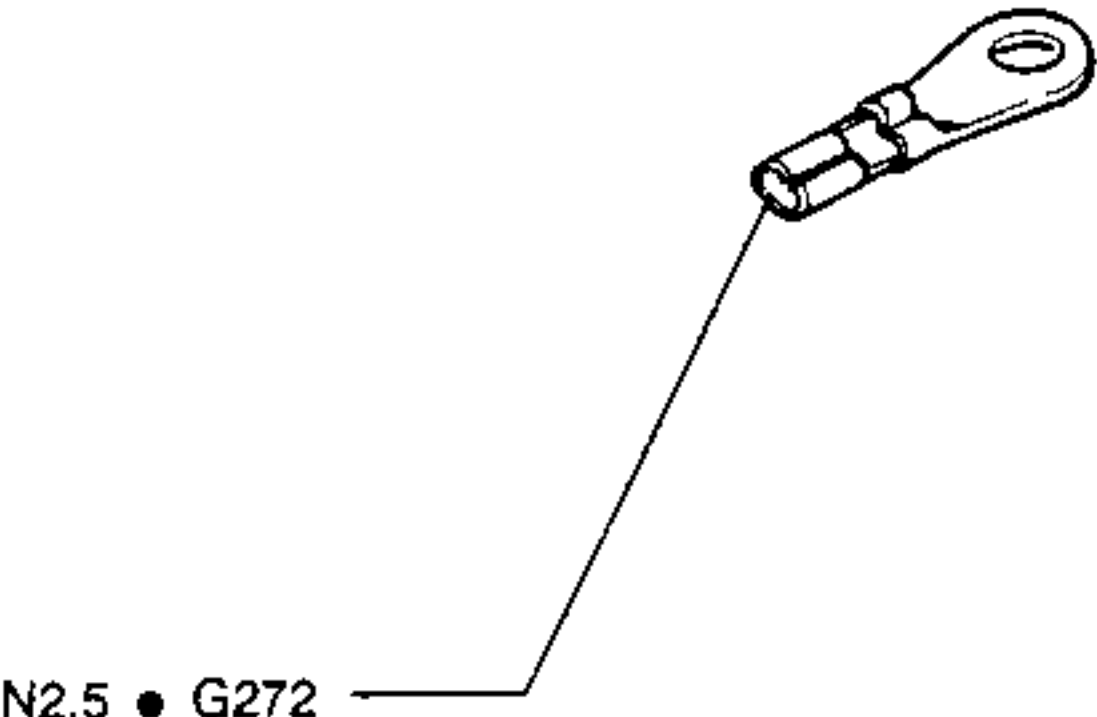
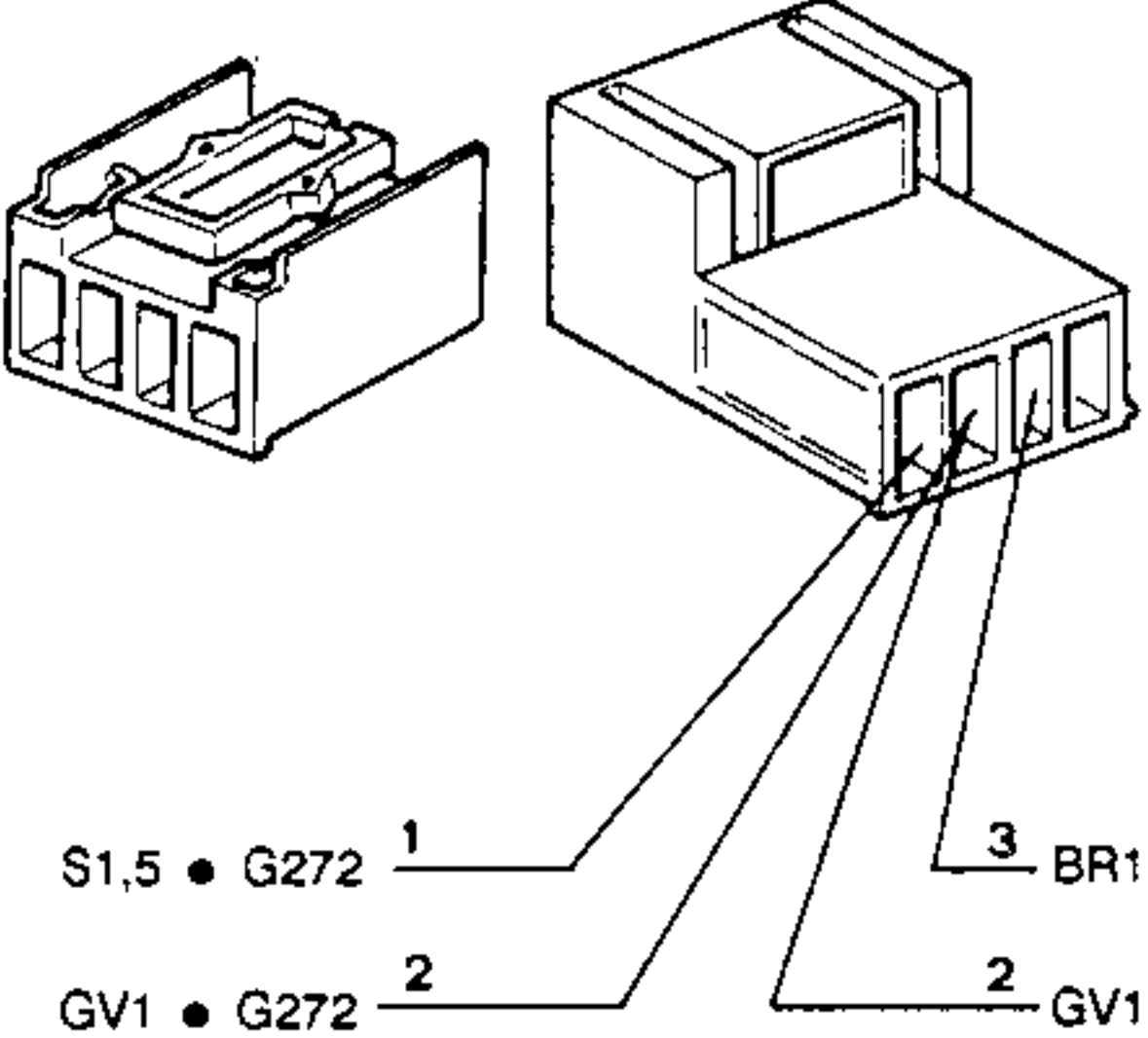
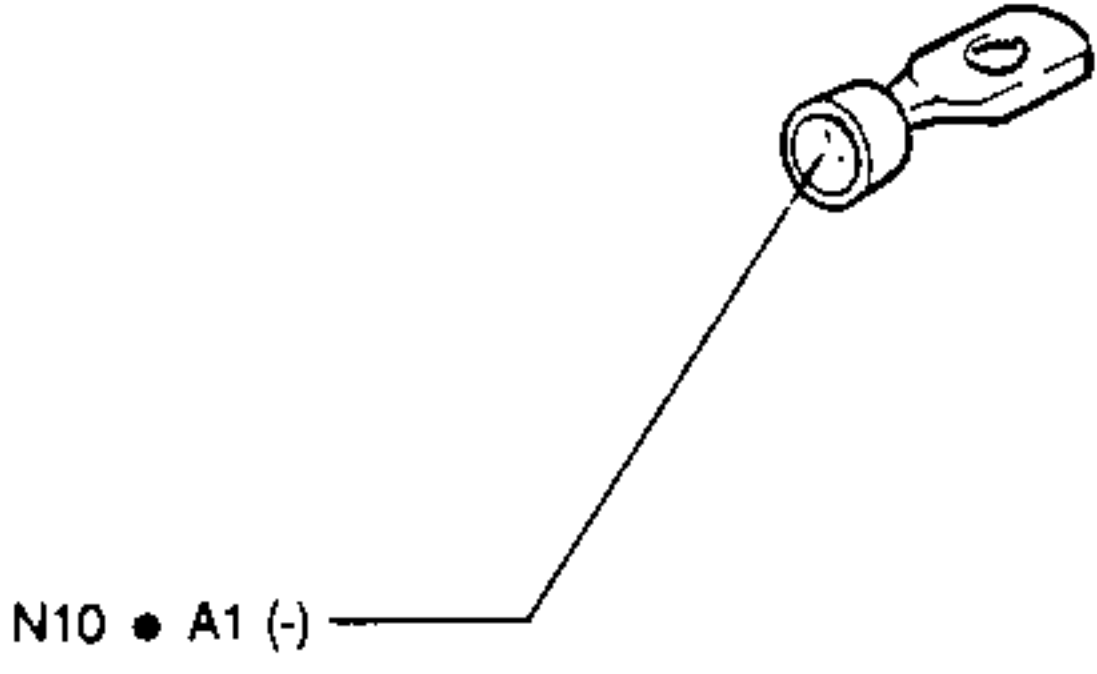
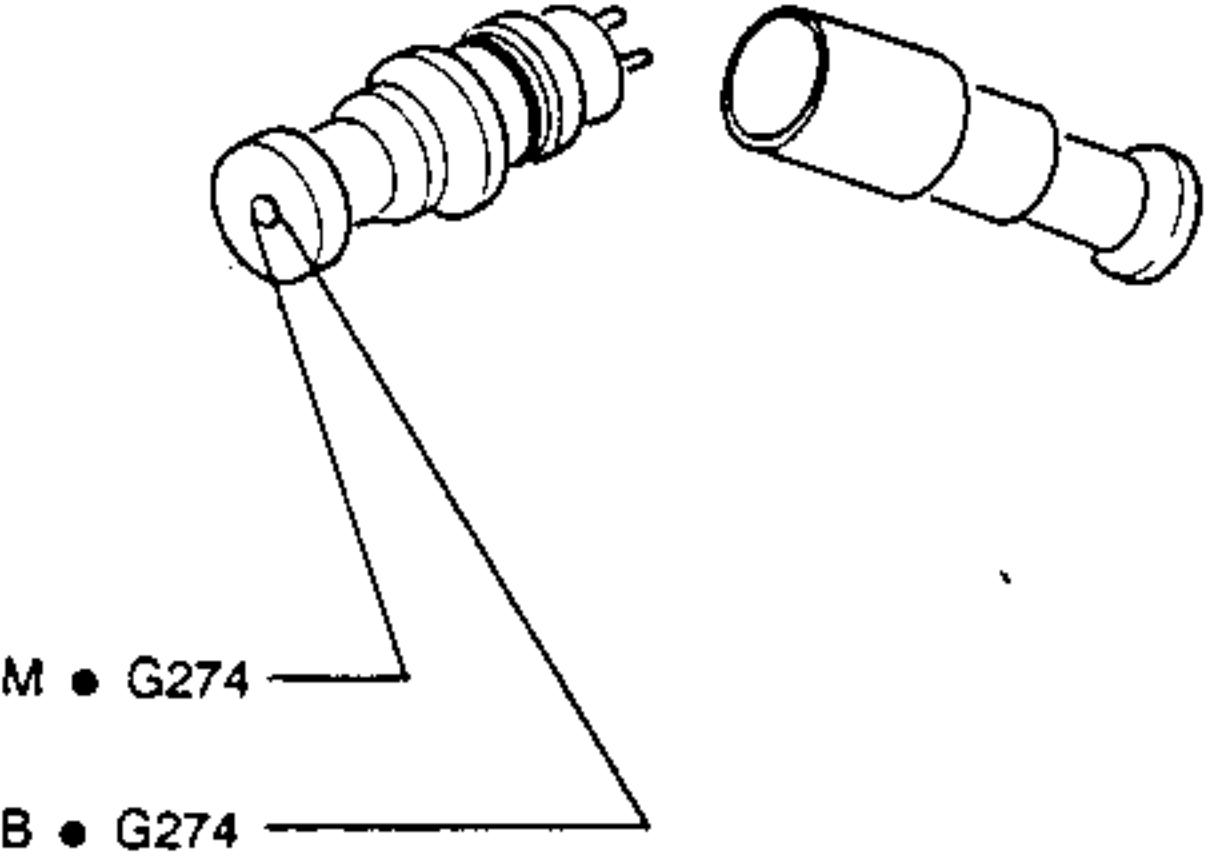


Wiring (Diagram A)



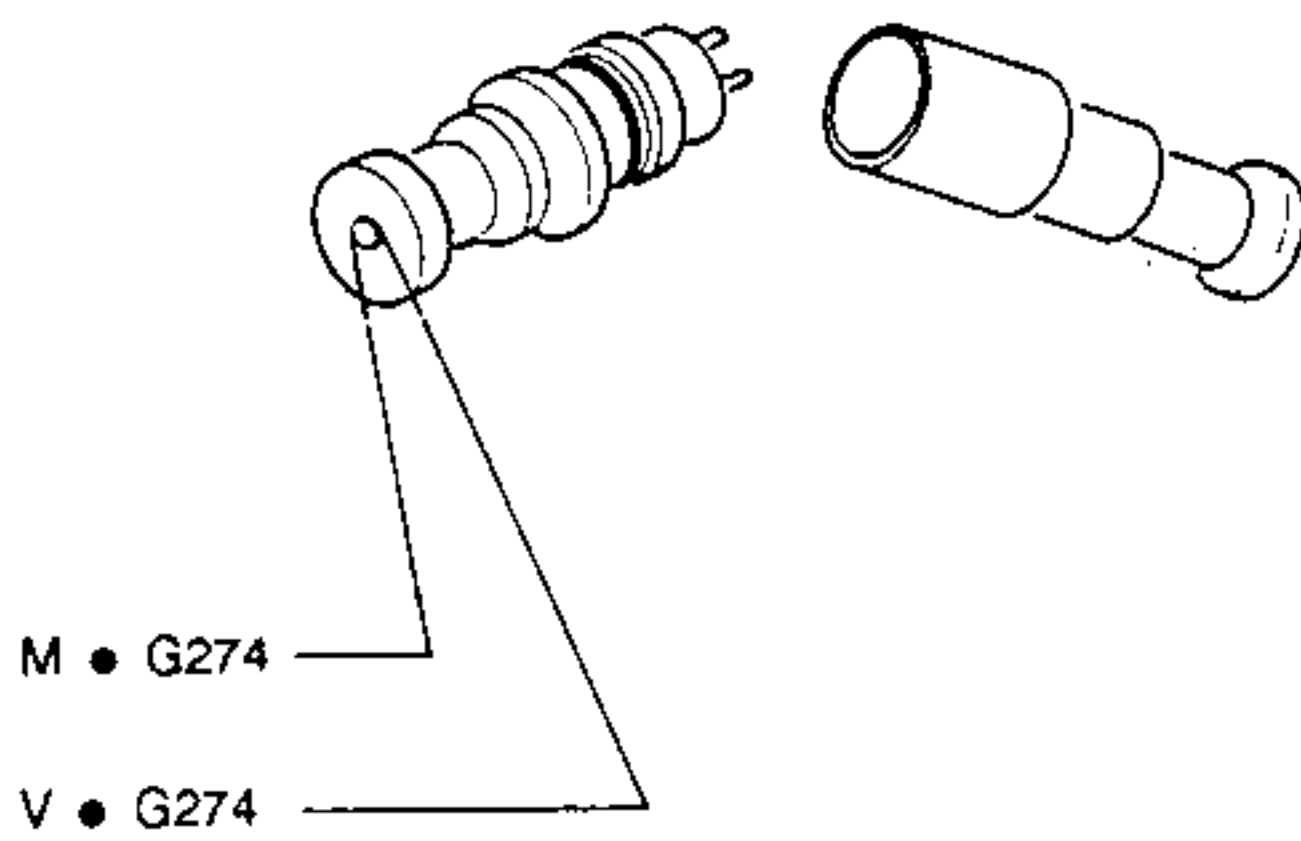
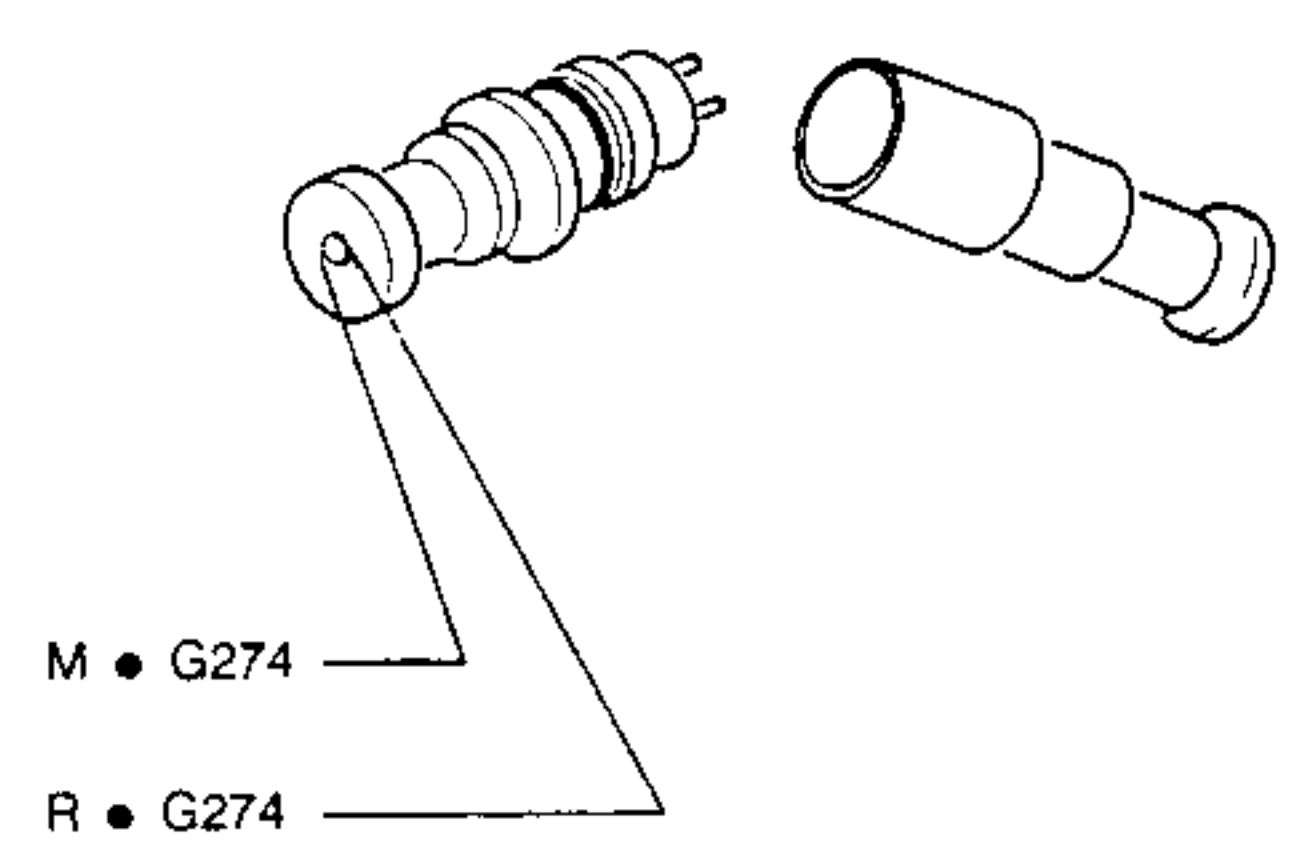
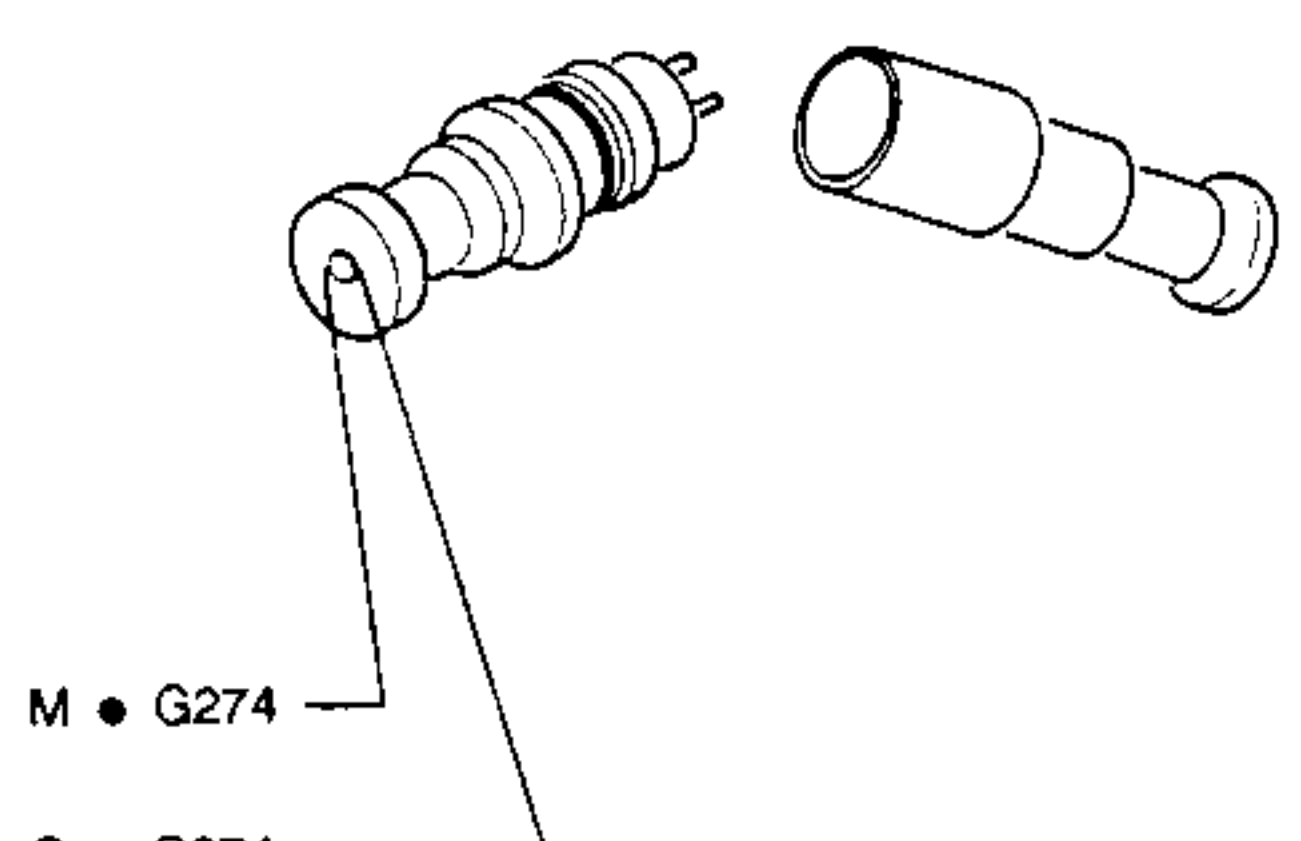
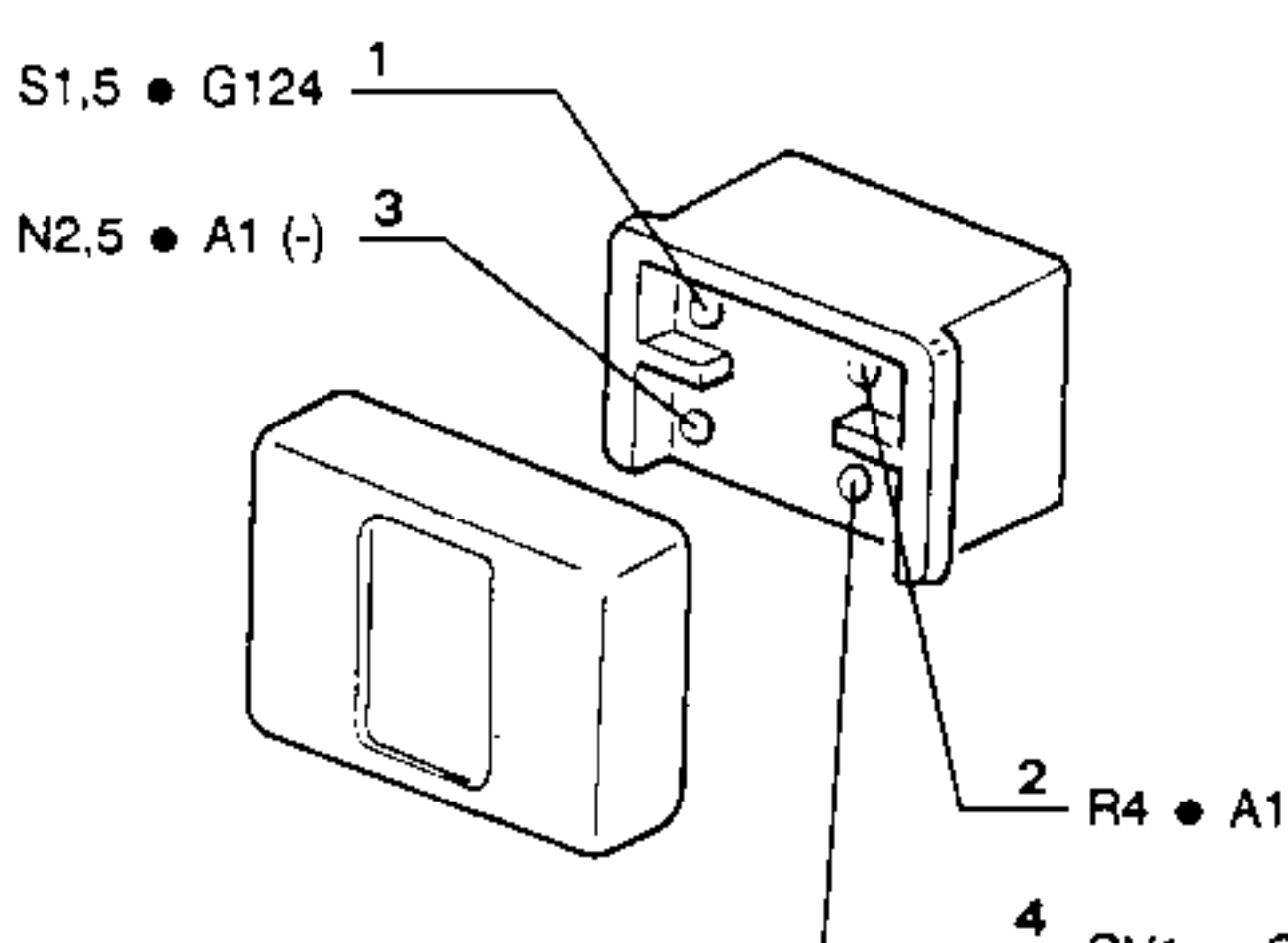
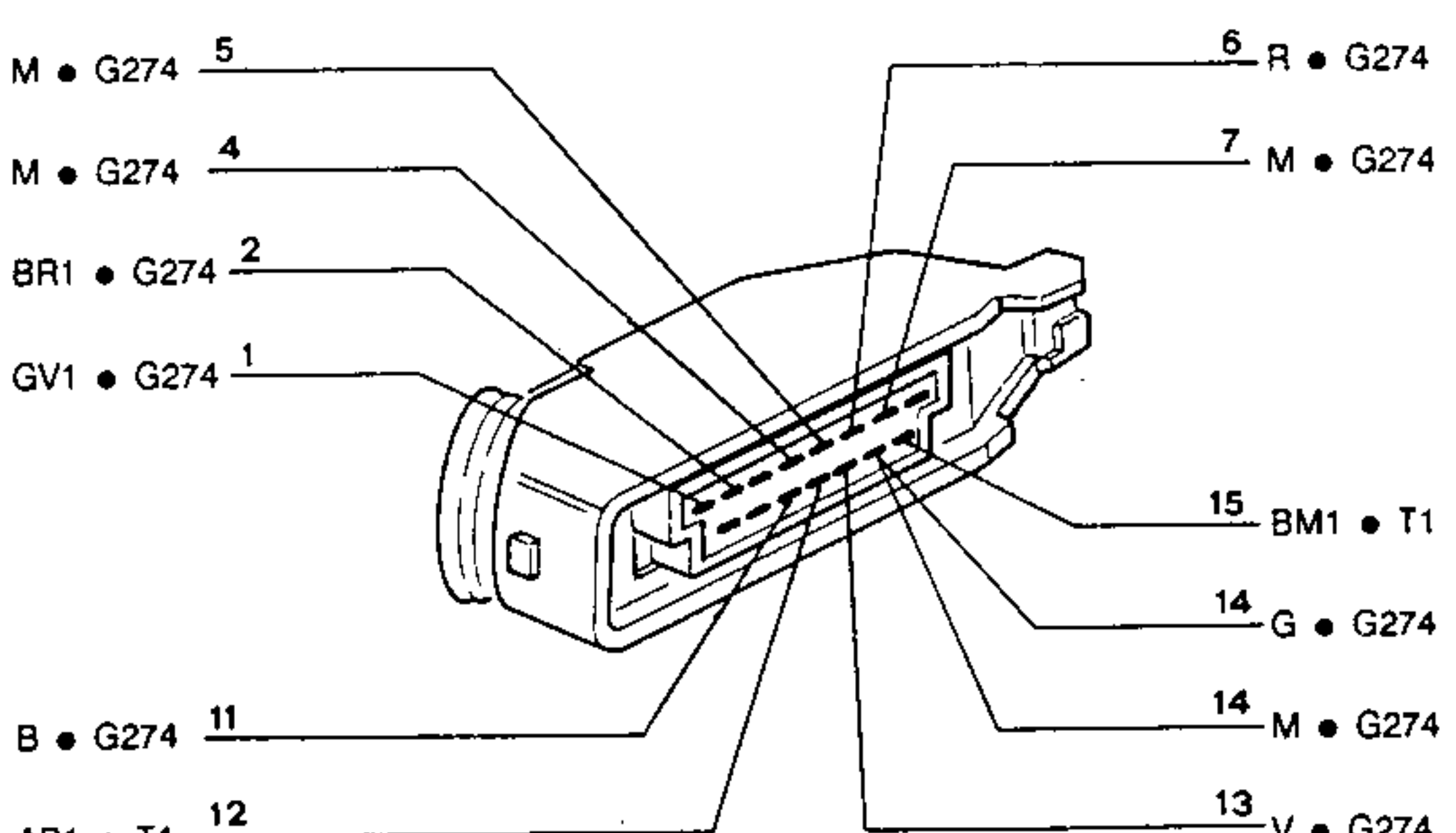
# ELECTRICAL SYSTEM

## Connectors (Diagram A)

Battery (+) A1		Battery (-) A1	
 <p>R4 • G272</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Battery (-) (*) A1		ABS system connector (*) G124	
 <p>N2.5 • G272</p>	33.90.014	 <p>S1.5 • G272 1 GV1 • G272 2 3 BR1 • G274 2 GV1 • G274</p>	33.90.018
Central service compartment earth G143		Front right sensor connection - ABS (*) G204	
 <p>N10 • A1 (-)</p>	33.90.001	 <p>M • G274 B • G274</p>	33.90.074

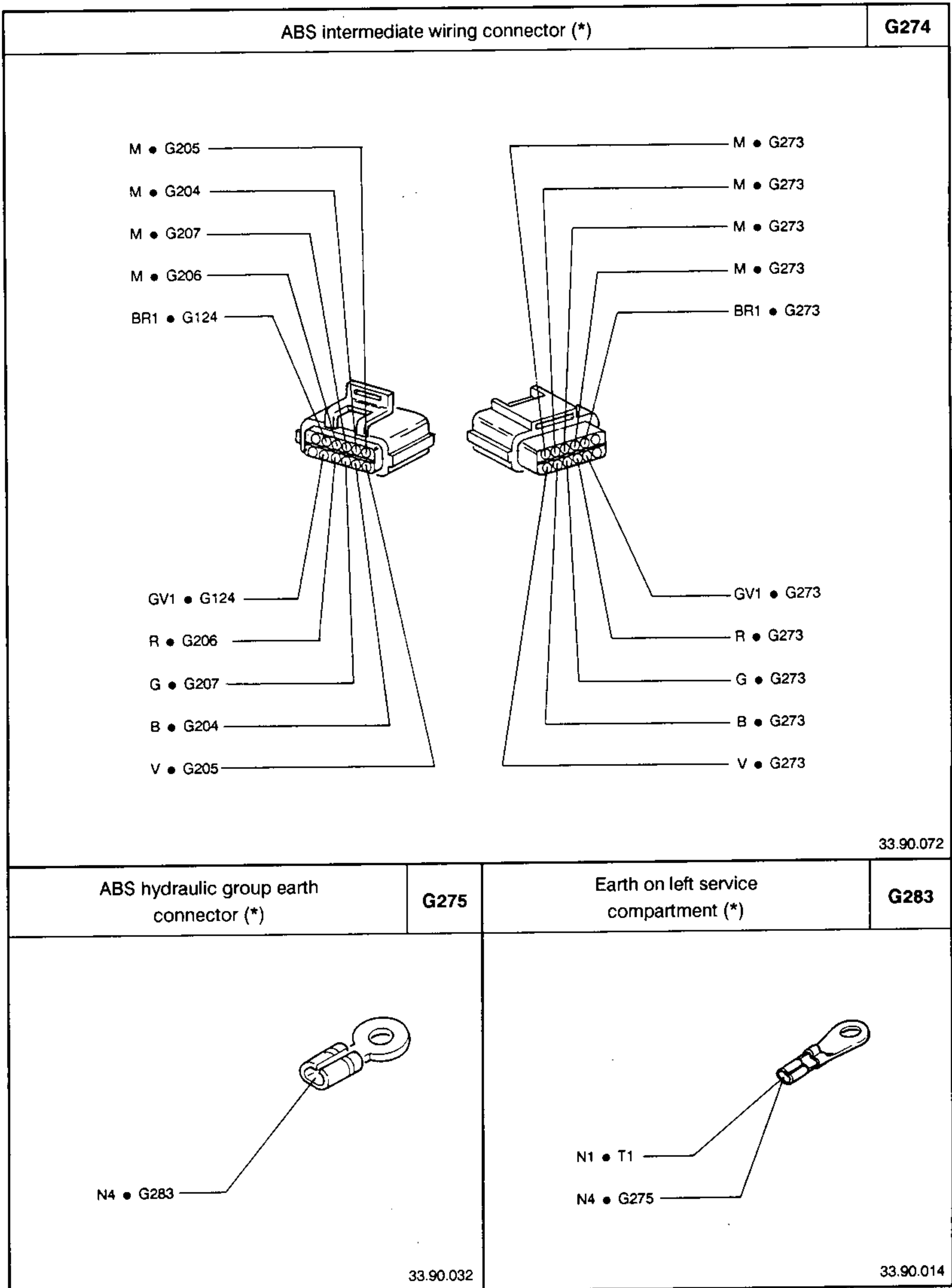
(\*) Optional

# ELECTRICAL SYSTEM

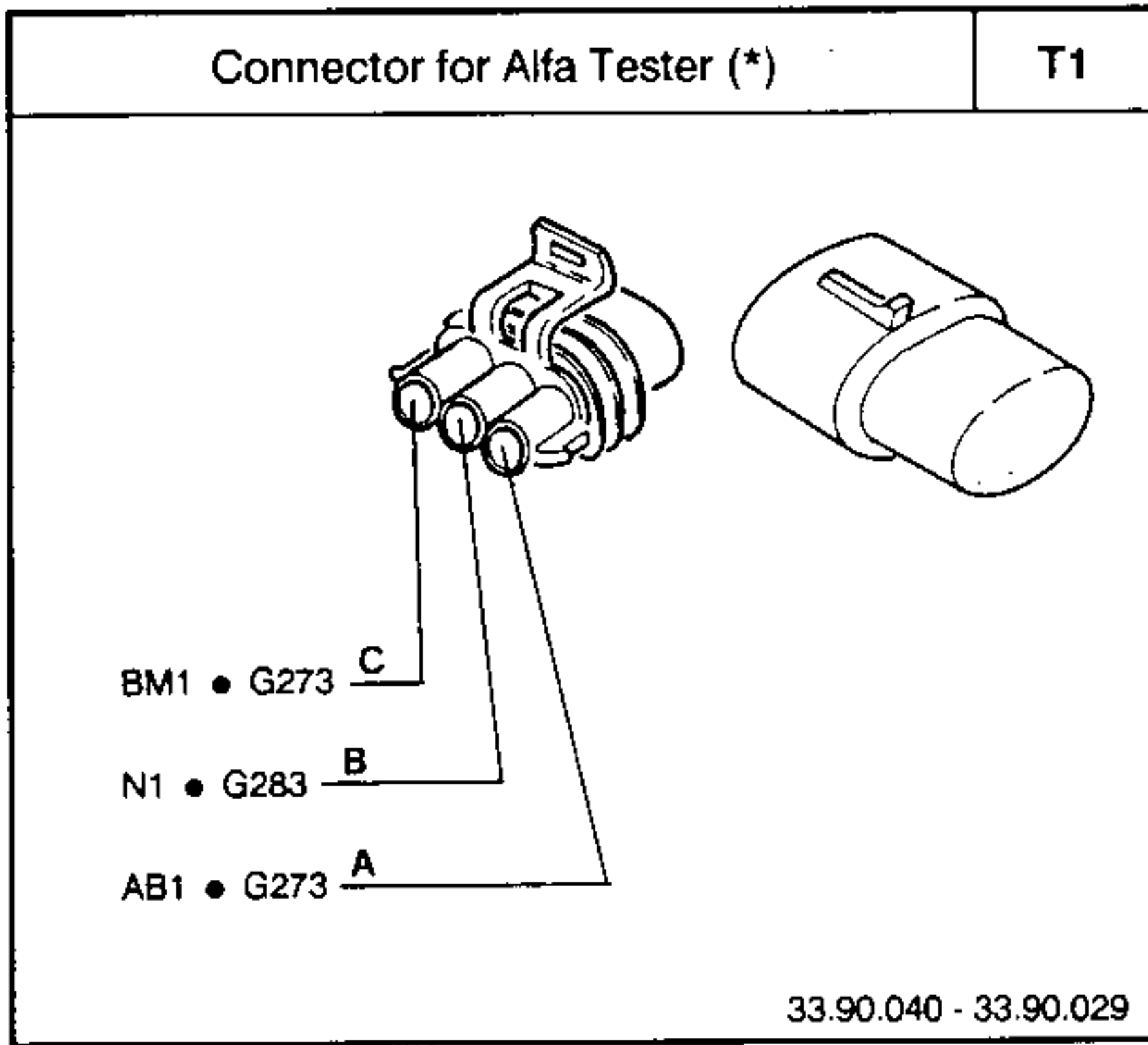
<p>Front left sensor connection - ABS (*)</p>	<p><b>G205</b></p>	<p>Rear right sensor connection - ABS (*)</p>	<p><b>G206</b></p>
			
<p>33.90.074</p>		<p>33.90.074</p>	
<p>Rear left sensor connection - ABS (*)</p>	<p><b>G207</b></p>	<p>Connector for ABS hydraulic group (*)</p>	<p><b>G272</b></p>
			
<p>33.90.074</p>		<p>33.90.073</p>	
<p>Connector for ABS control unit (*)</p>			<p><b>G273</b></p>
			
<p>33.90.057</p>			

(\*) Optional

# ELECTRICAL SYSTEM



(\*) Optional

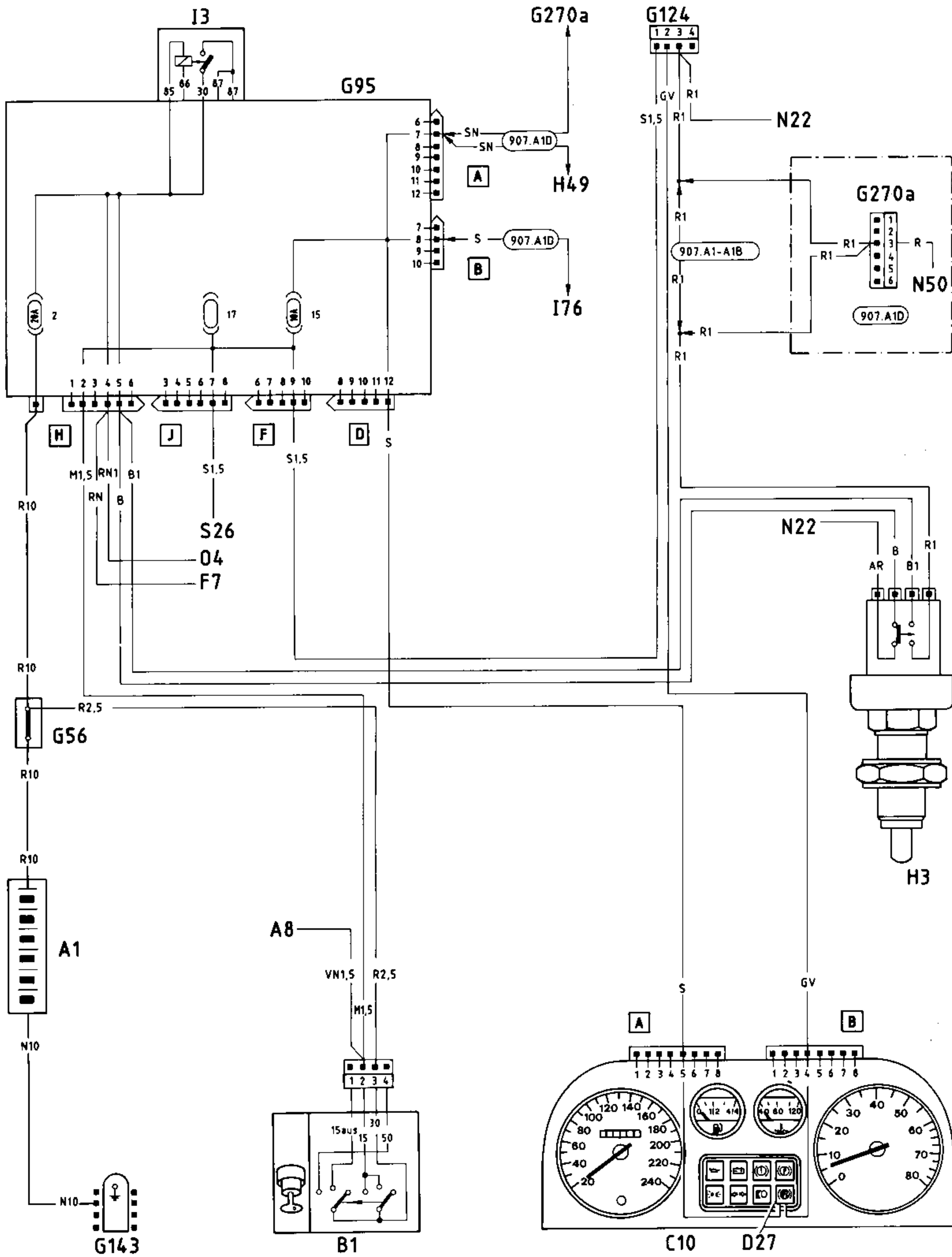


(\*) Optional

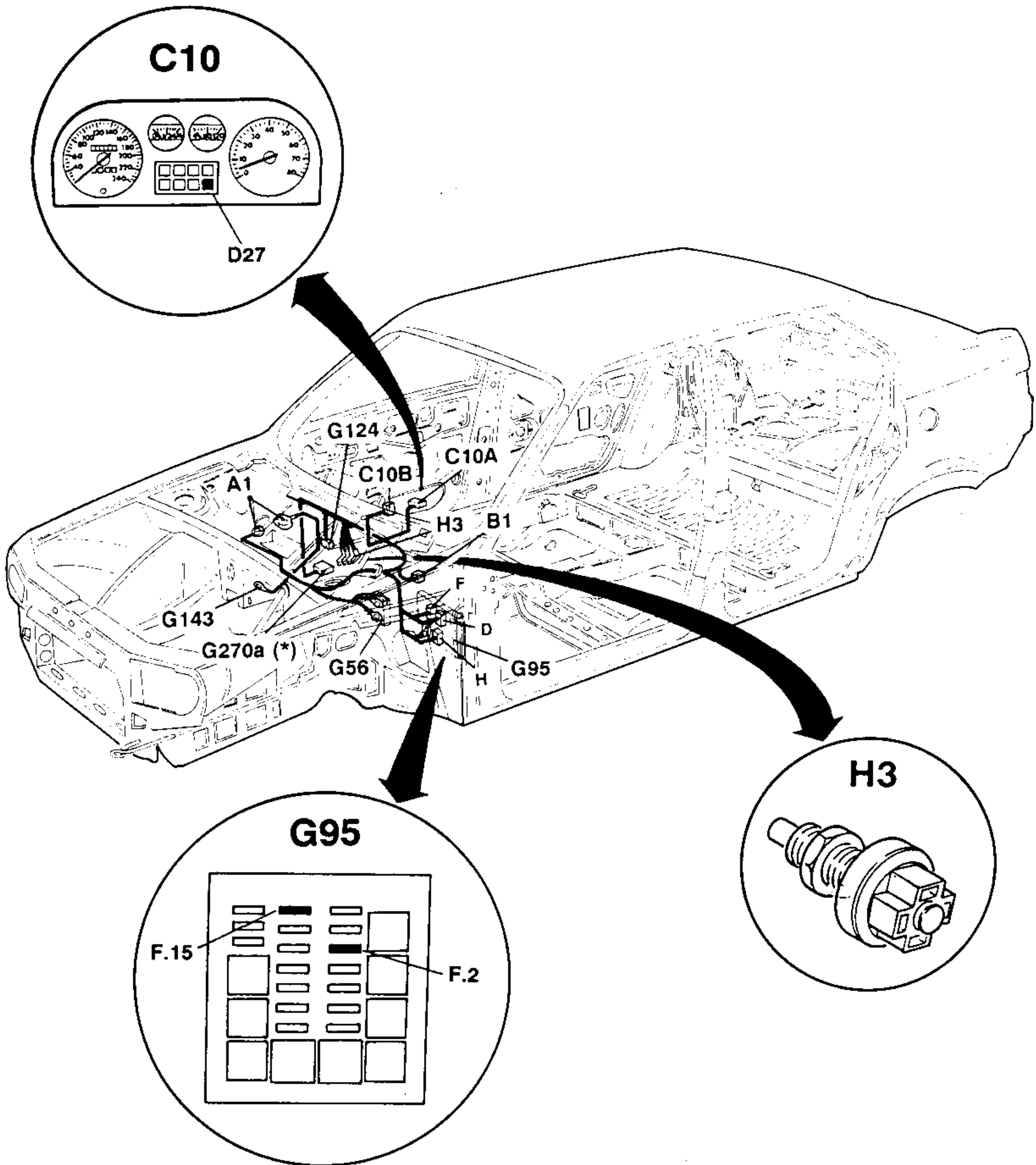
# ELECTRICAL SYSTEM

## Wiring diagram (Diagram B)

A.B.S. 2K BOSCH



Wiring (Diagram B)

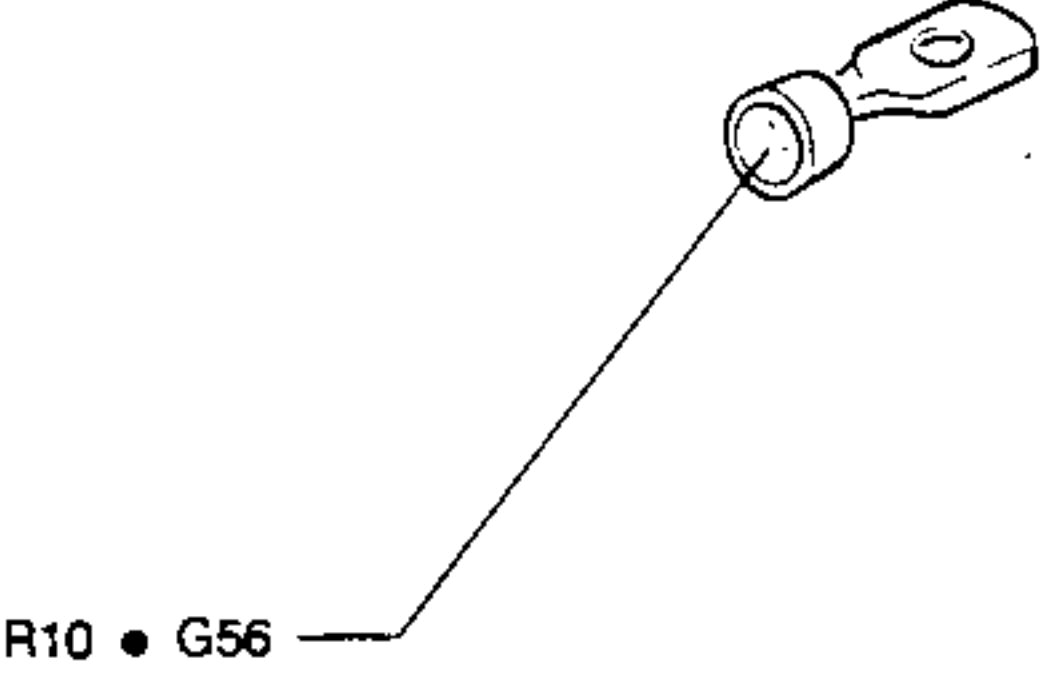
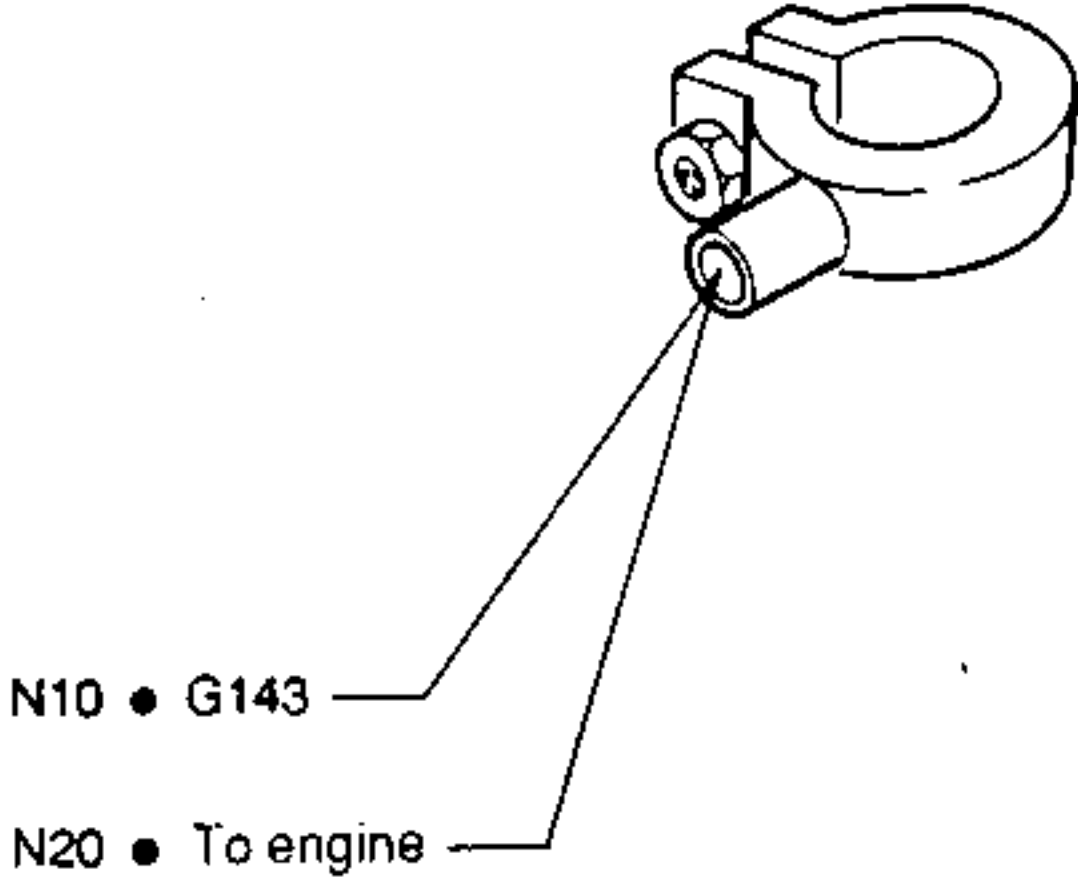
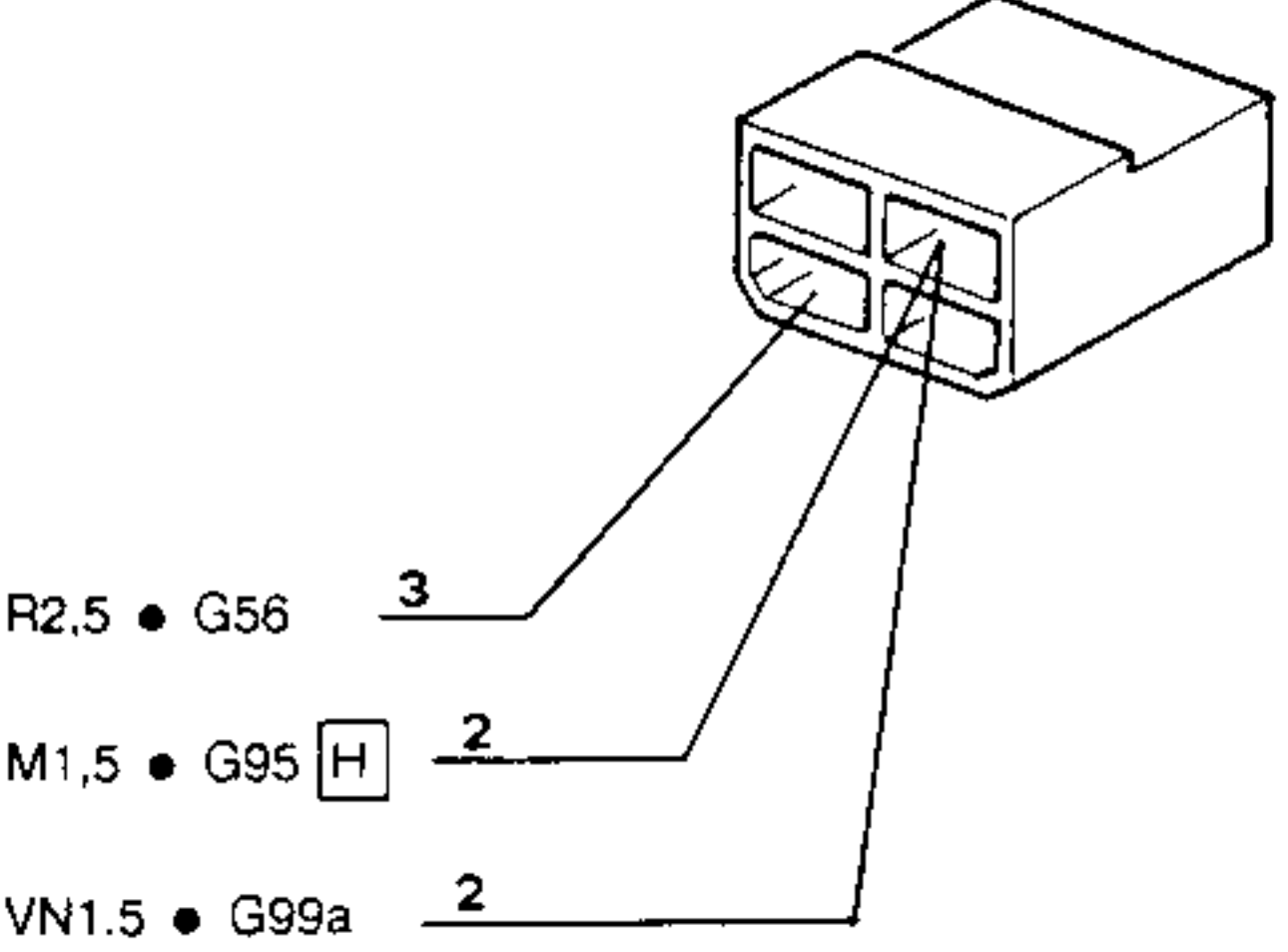
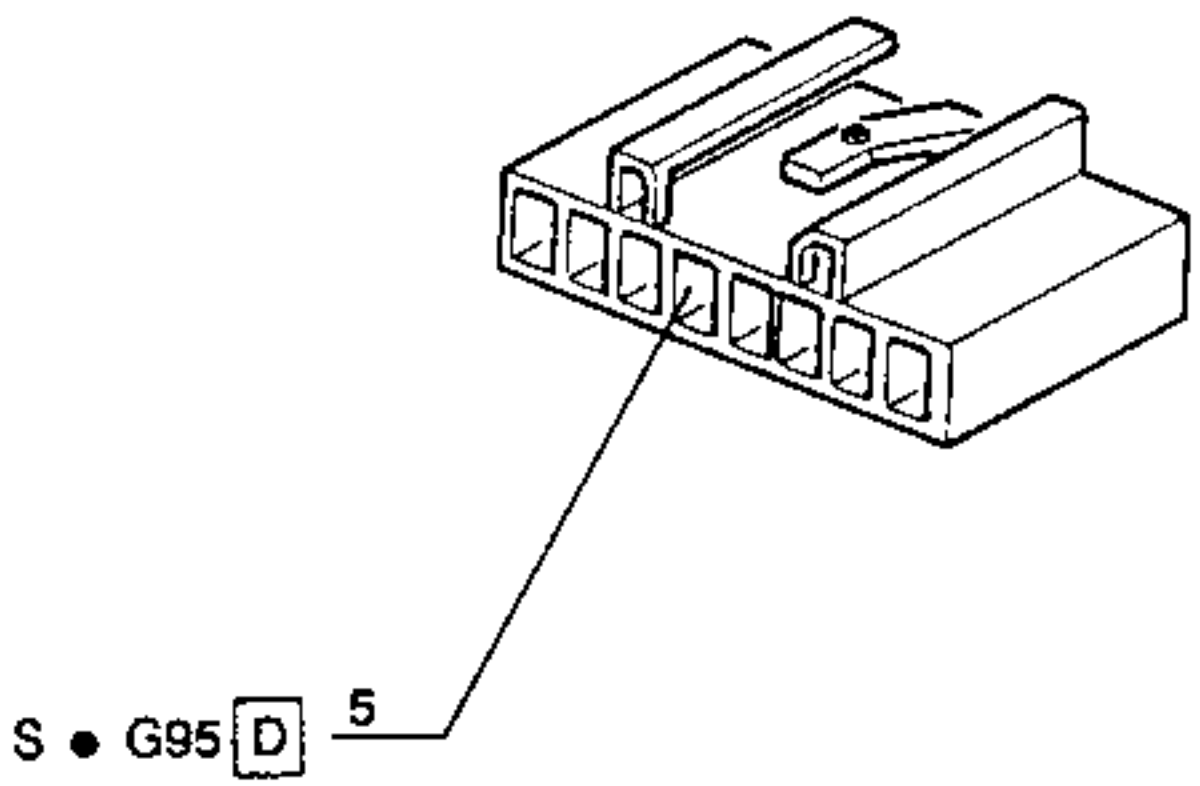
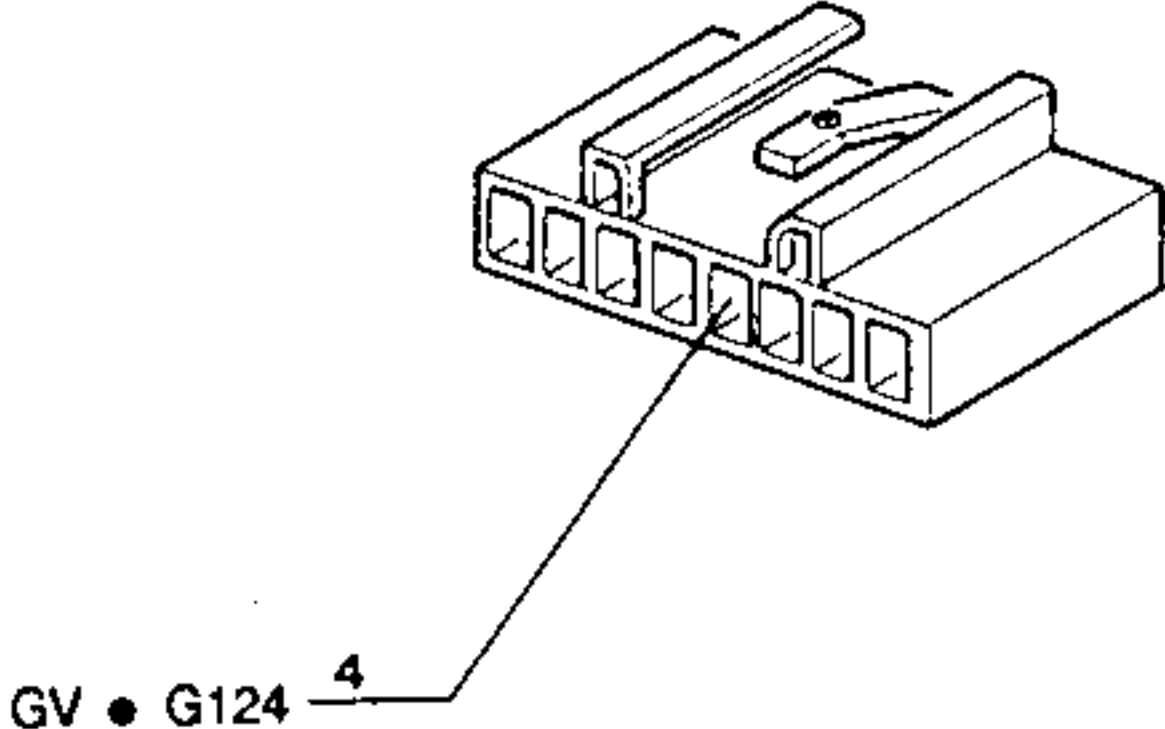
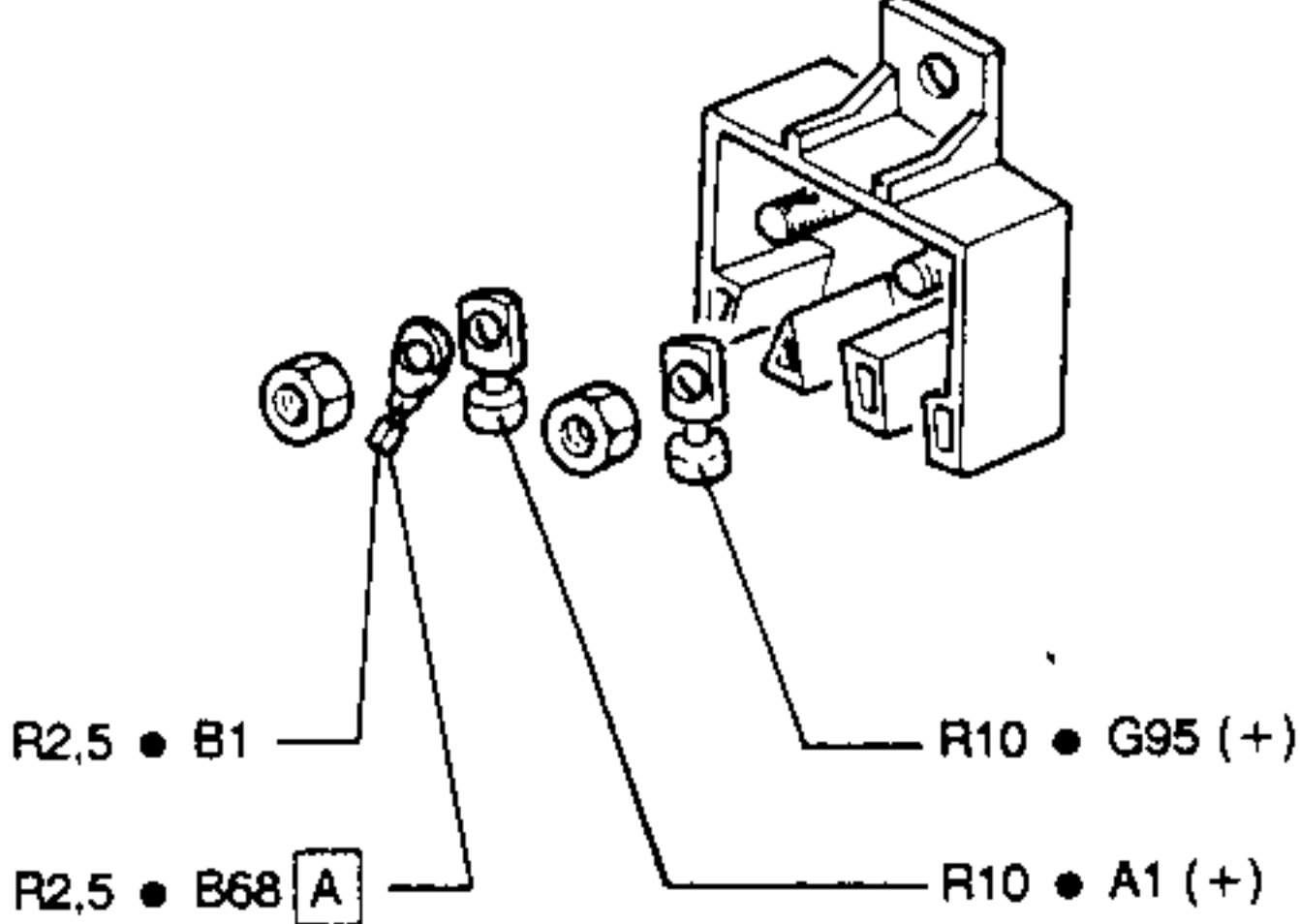


(\* ) Specific to 4 x 4 versions

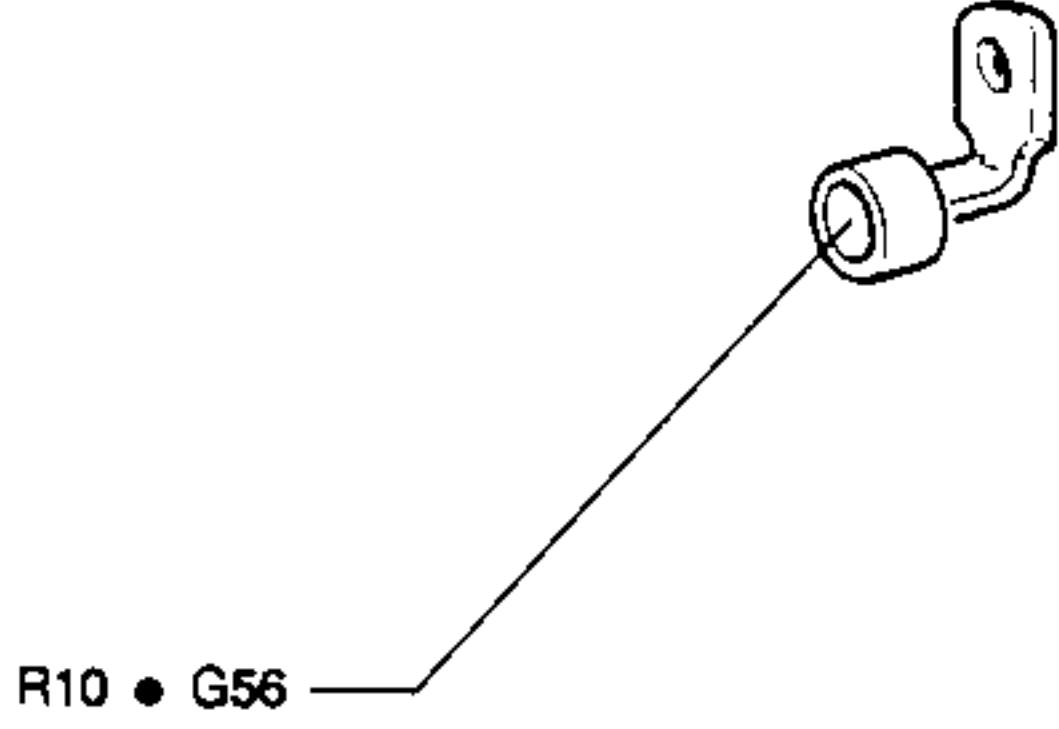
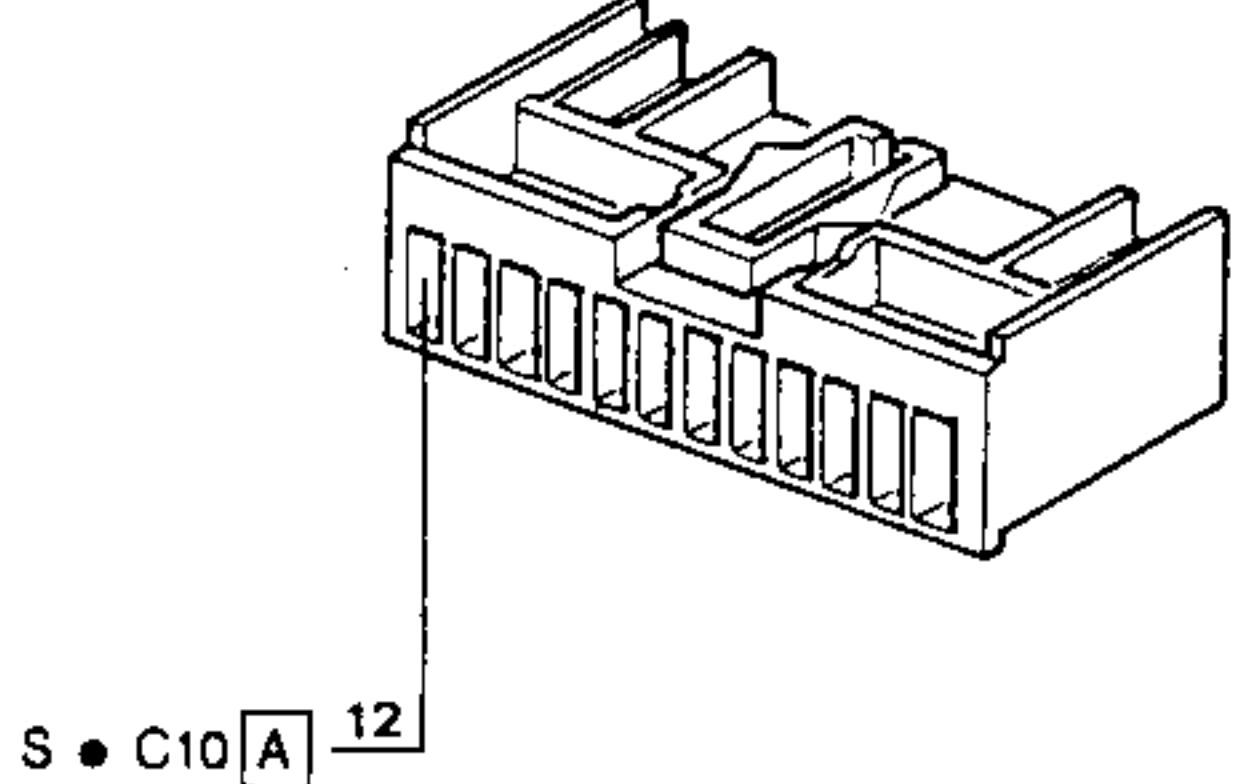
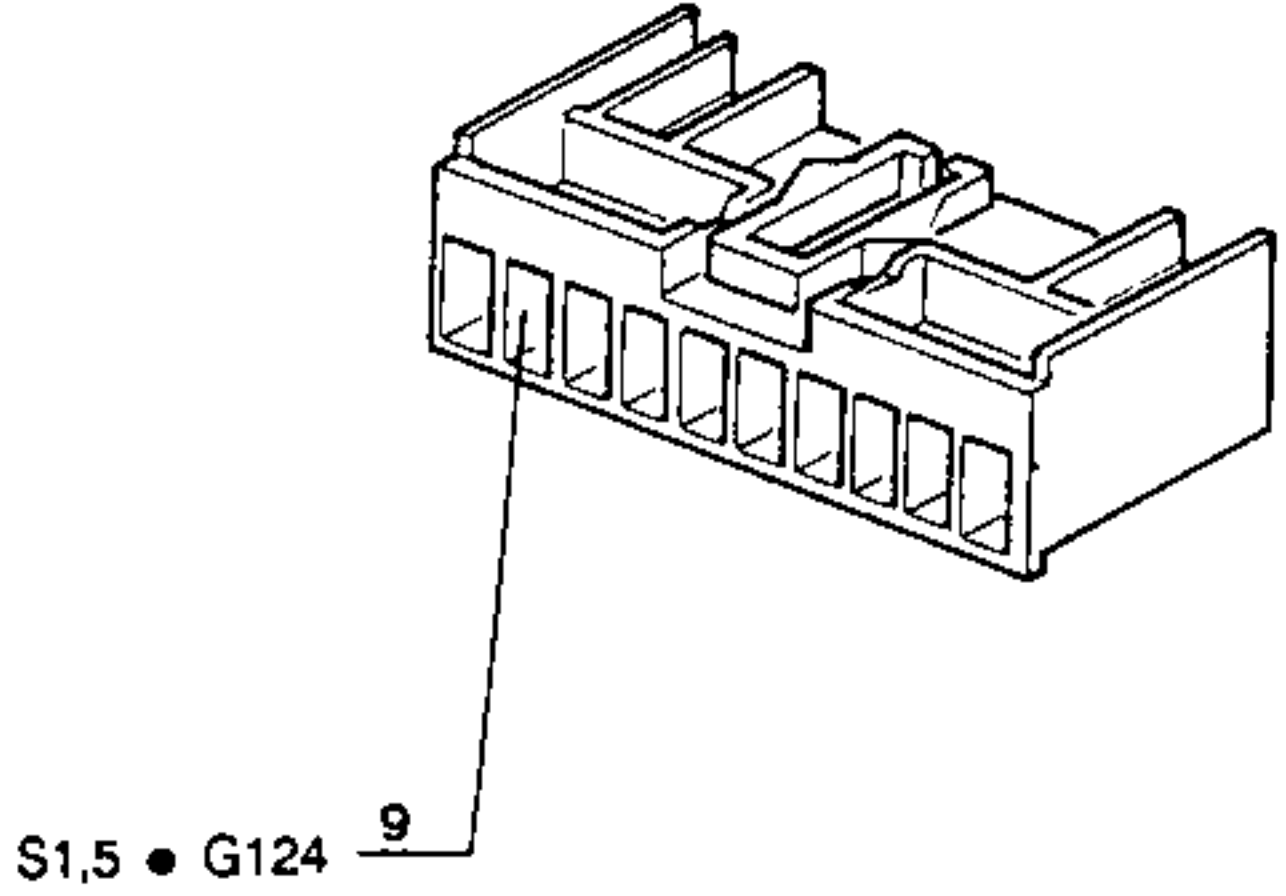
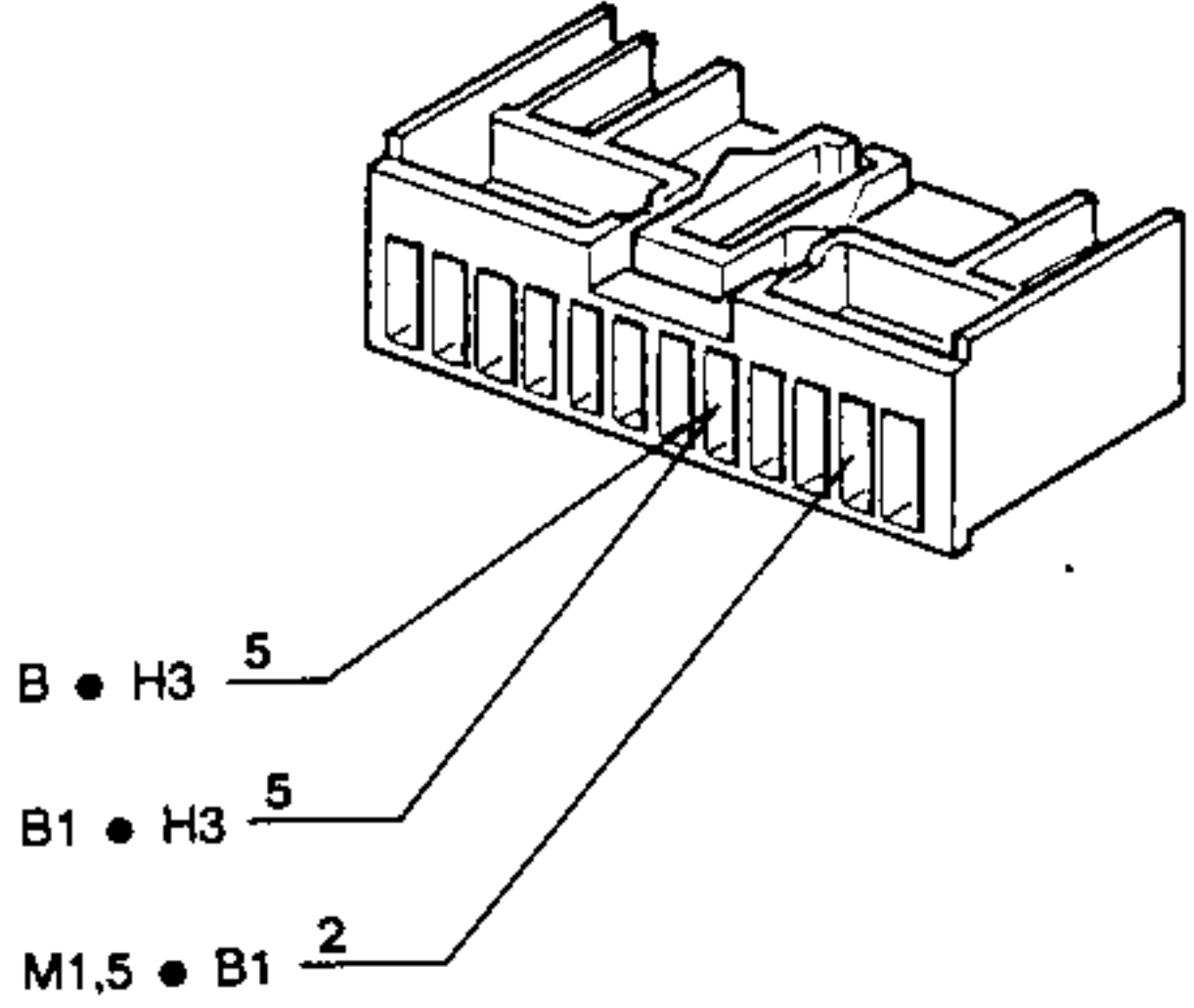
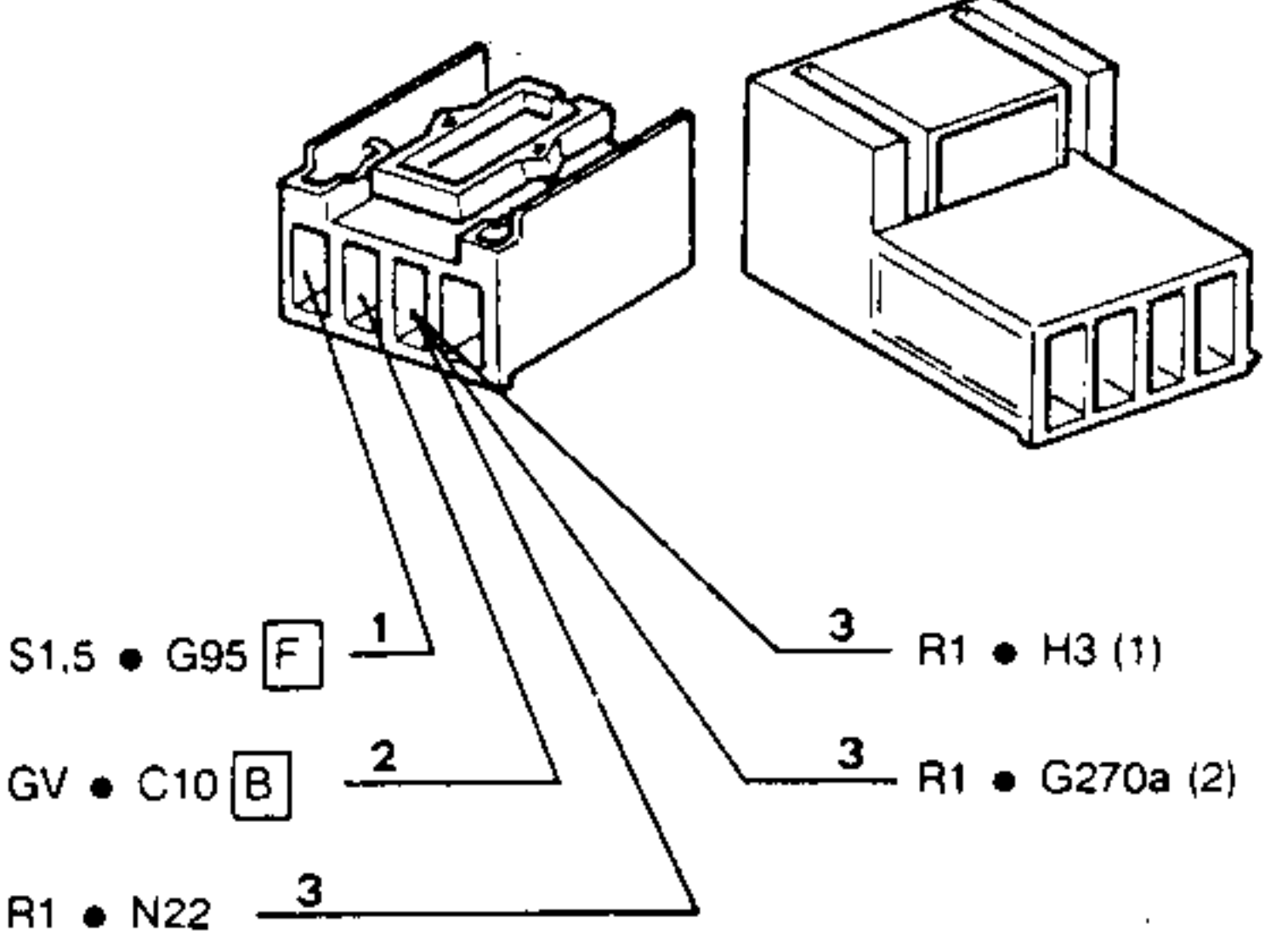
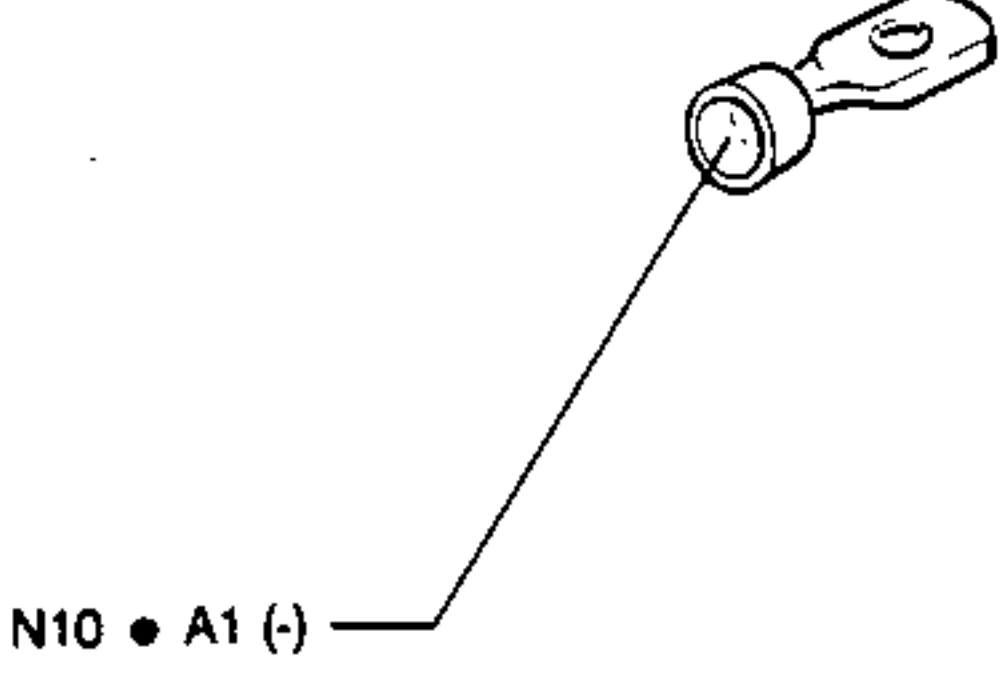


# ELECTRICAL SYSTEM

## Connectors (Diagram B)

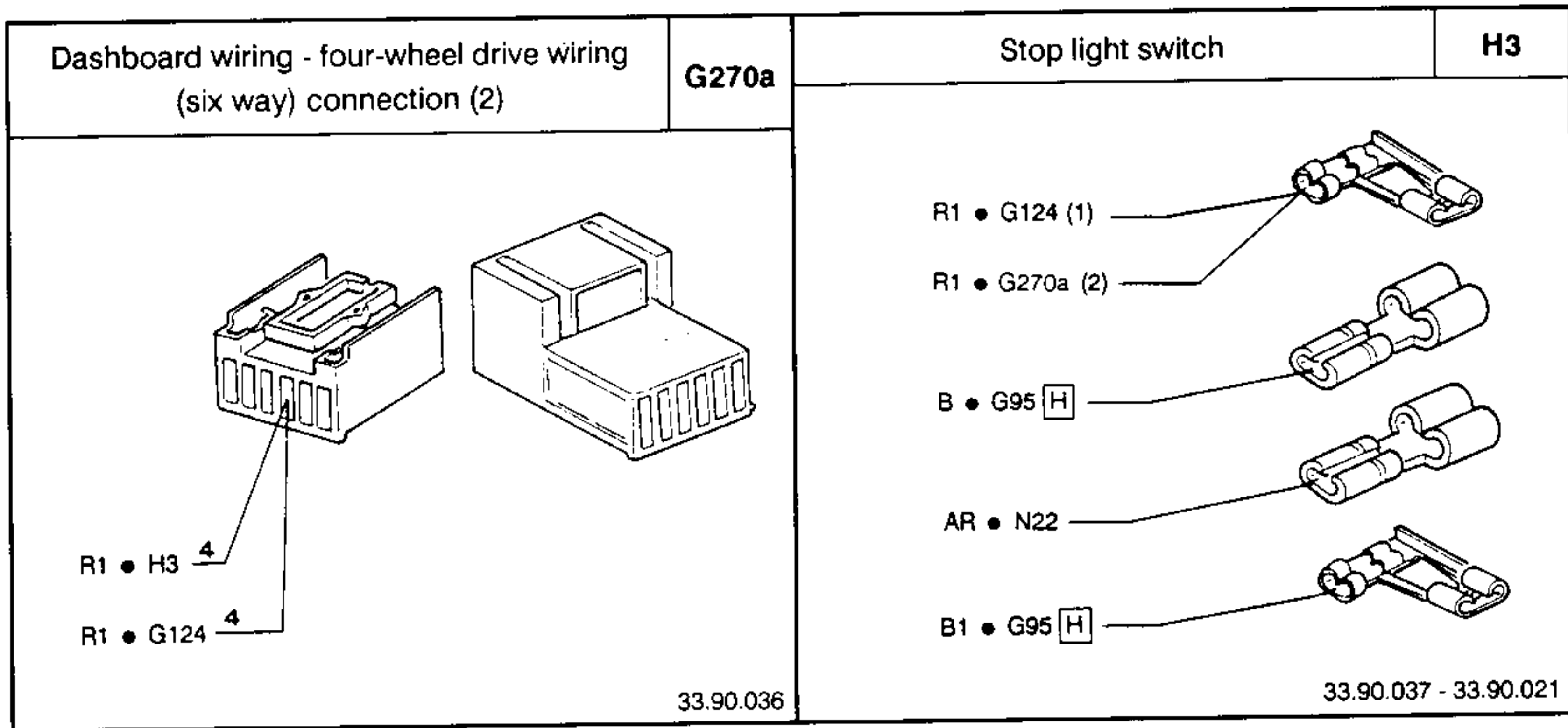
Battery (+)	A1	Battery (-)	A1
 <p>R10 • G56</p>	33.90.001	 <p>N10 • G143 N20 • To engine</p>	33.90.002
Ignition switch	B1	Instrument panel	C10 A
 <p>R2.5 • G56 3 M1.5 • G95 H 2 VN1.5 • G99a 2</p>	33.90.028	 <p>S • G95 D 5</p>	33.90.024
Instrument panel	C10 B	Branch terminal board	G56
 <p>GV • G124 4</p>	33.90.024	 <p>R2.5 • B1 R2.5 • B68 A R10 • G95 (+) R10 • A1 (+)</p>	33.90.011

# ELECTRICAL SYSTEM

<p><b>Central fusebox (+)</b></p> <p style="text-align: right;"><b>G95</b></p>	<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 D</b></p>
 <p>R10 • G56</p> <p style="text-align: right;">33.90.006</p>	 <p>S • C10 A 12</p> <p style="text-align: right;">33.90.004</p>
<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 F</b></p>	<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 H</b></p>
 <p>S1,5 • G124 9</p> <p style="text-align: right;">33.90.005</p>	 <p>B • H3 5</p> <p>B1 • H3 5</p> <p>M1,5 • B1 2</p> <p style="text-align: right;">33.90.004</p>
<p><b>ABS system connector (*)</b></p> <p style="text-align: right;"><b>G124</b></p>	<p><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>
 <p>S1,5 • G95 F 1</p> <p>GV • C10 B 2</p> <p>R1 • N22 3</p> <p>R1 • H3 (1) 3</p> <p>R1 • G270a (2) 3</p> <p style="text-align: right;">33.90.018</p>	 <p>N10 • A1 (-)</p> <p style="text-align: right;">33.90.001</p>

(1) Specific to 4 x 2 versions  
 (2) Specific to 4 x 4 versions

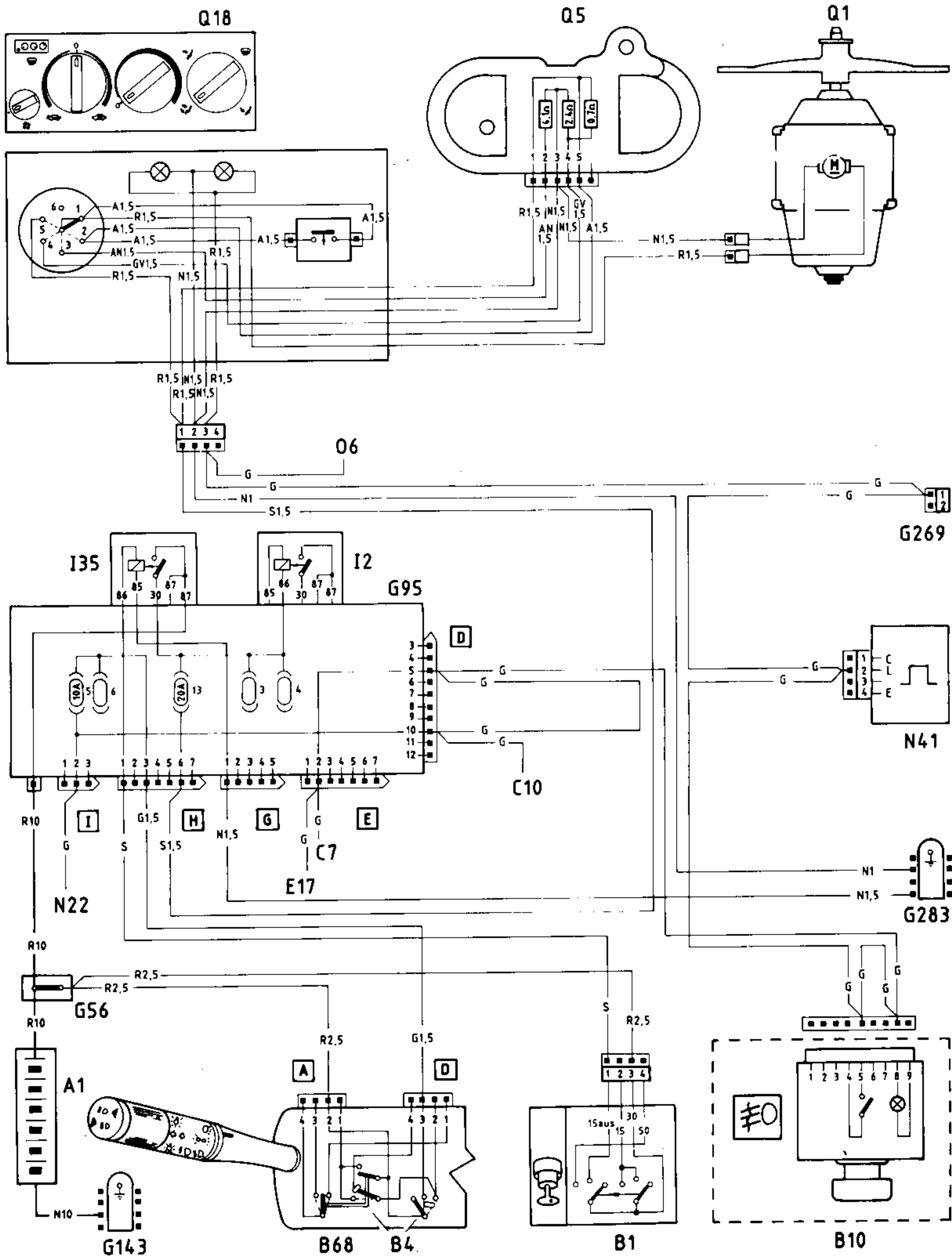
# ELECTRICAL SYSTEM



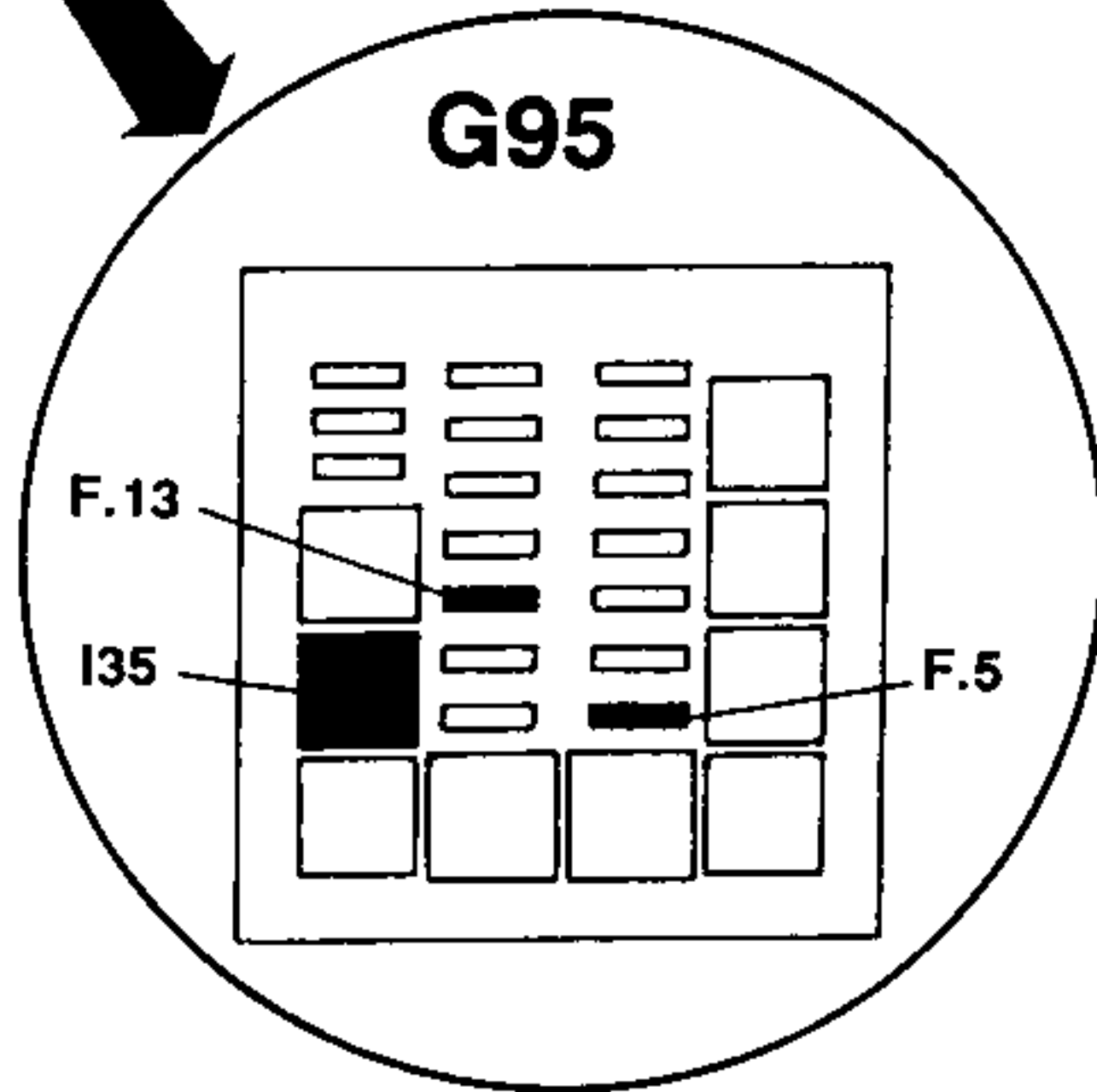
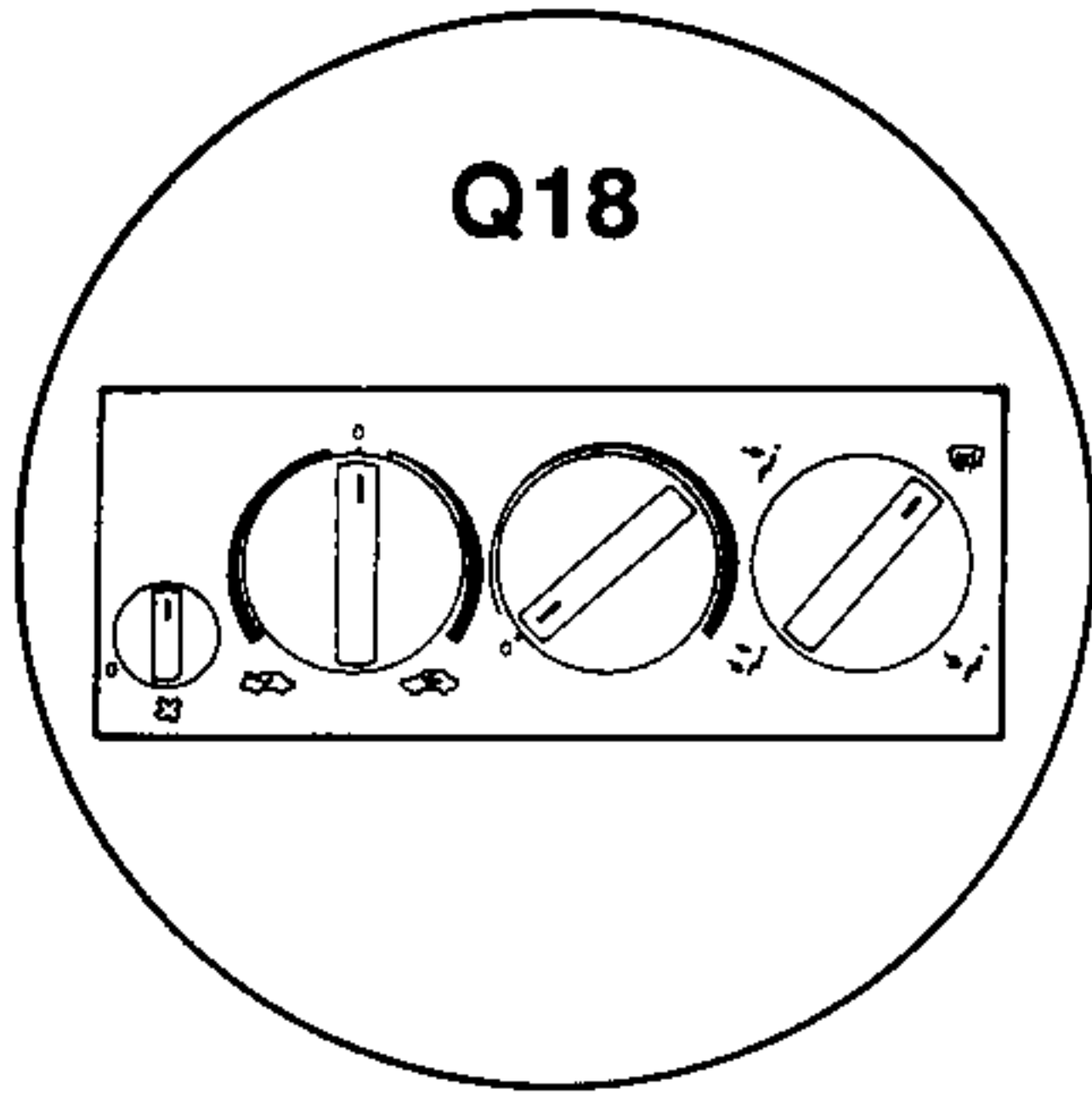
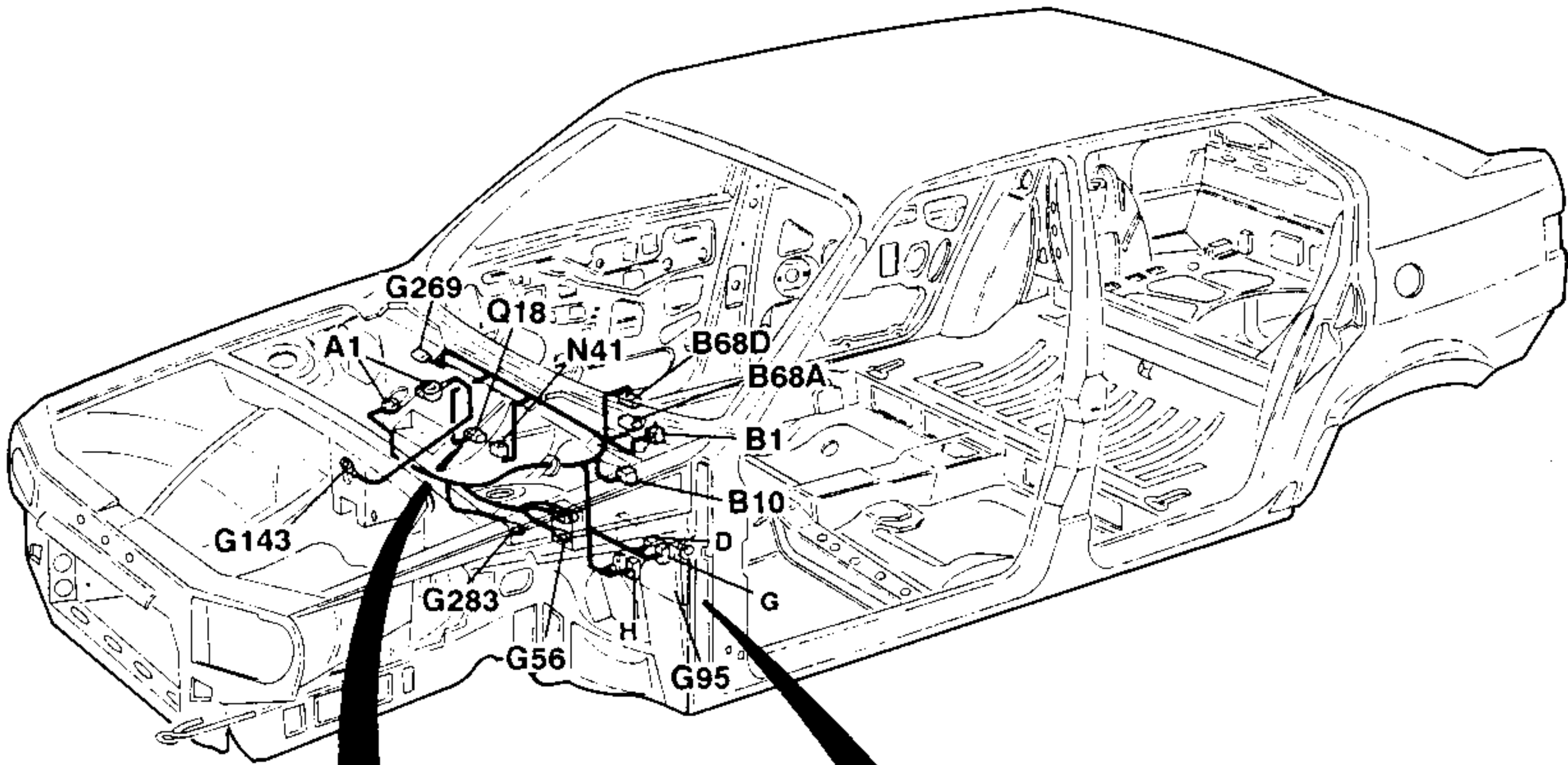
- (1) Specific to 4 x 2 versions
- (2) Specific to 4 x 4 versions

HEATING

Wiring diagram

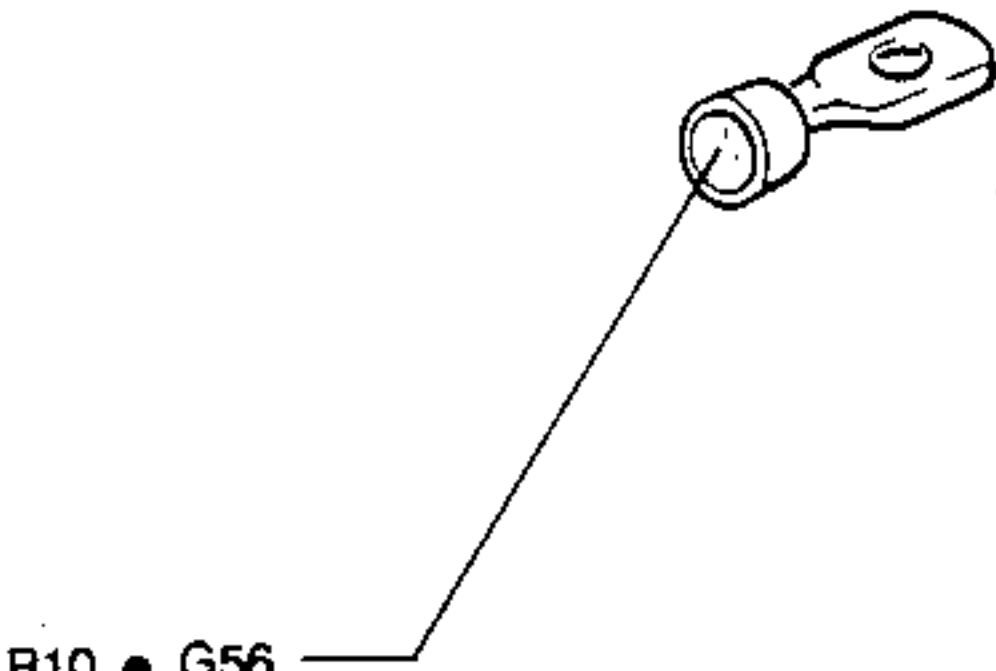
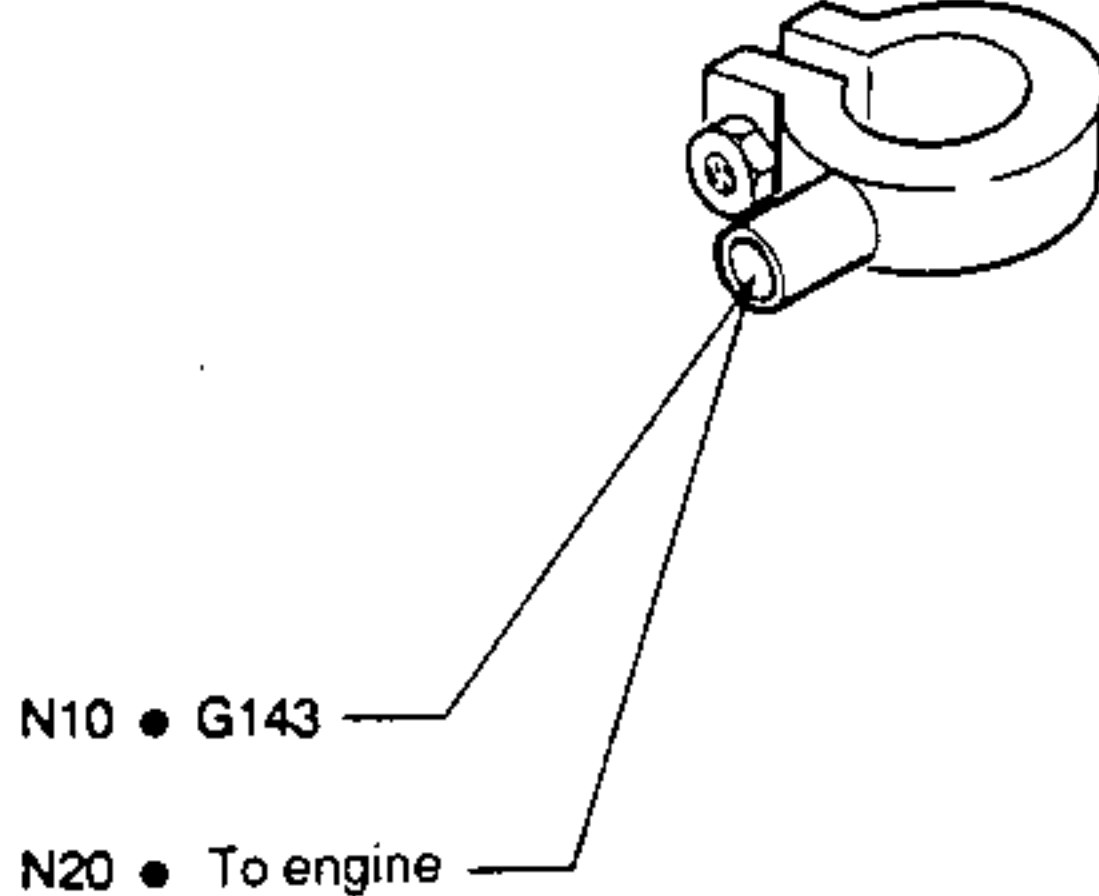
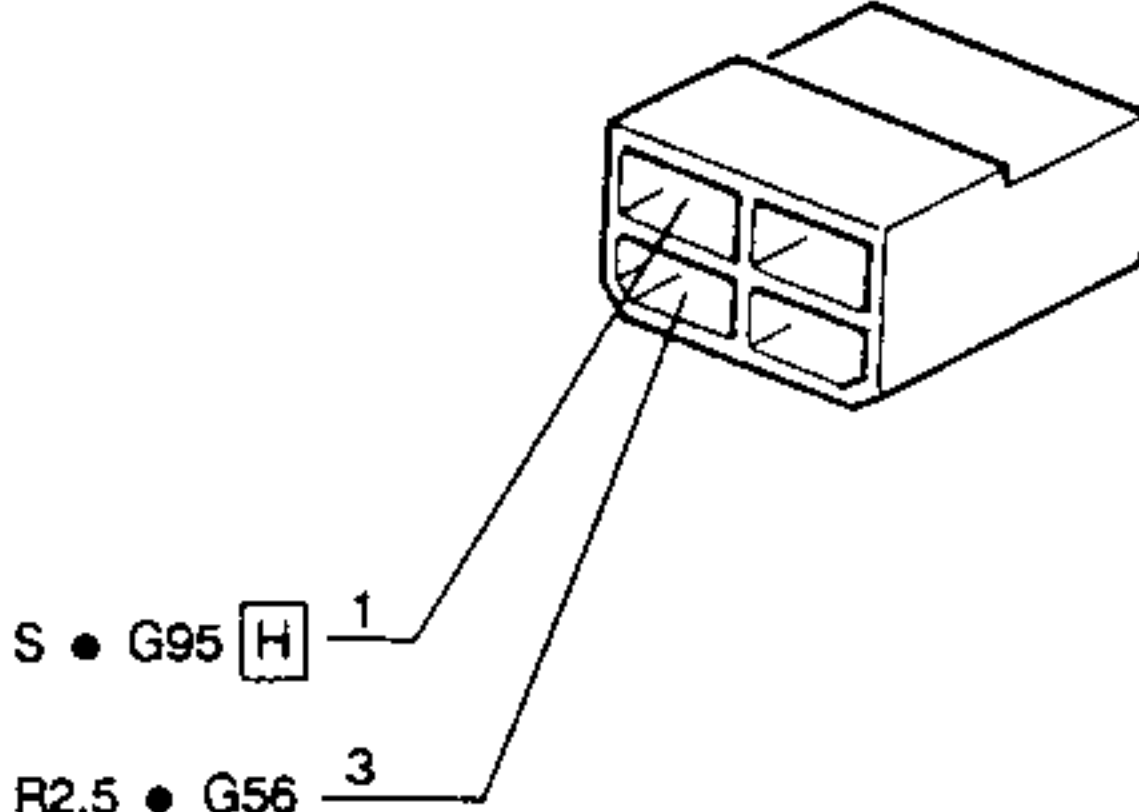
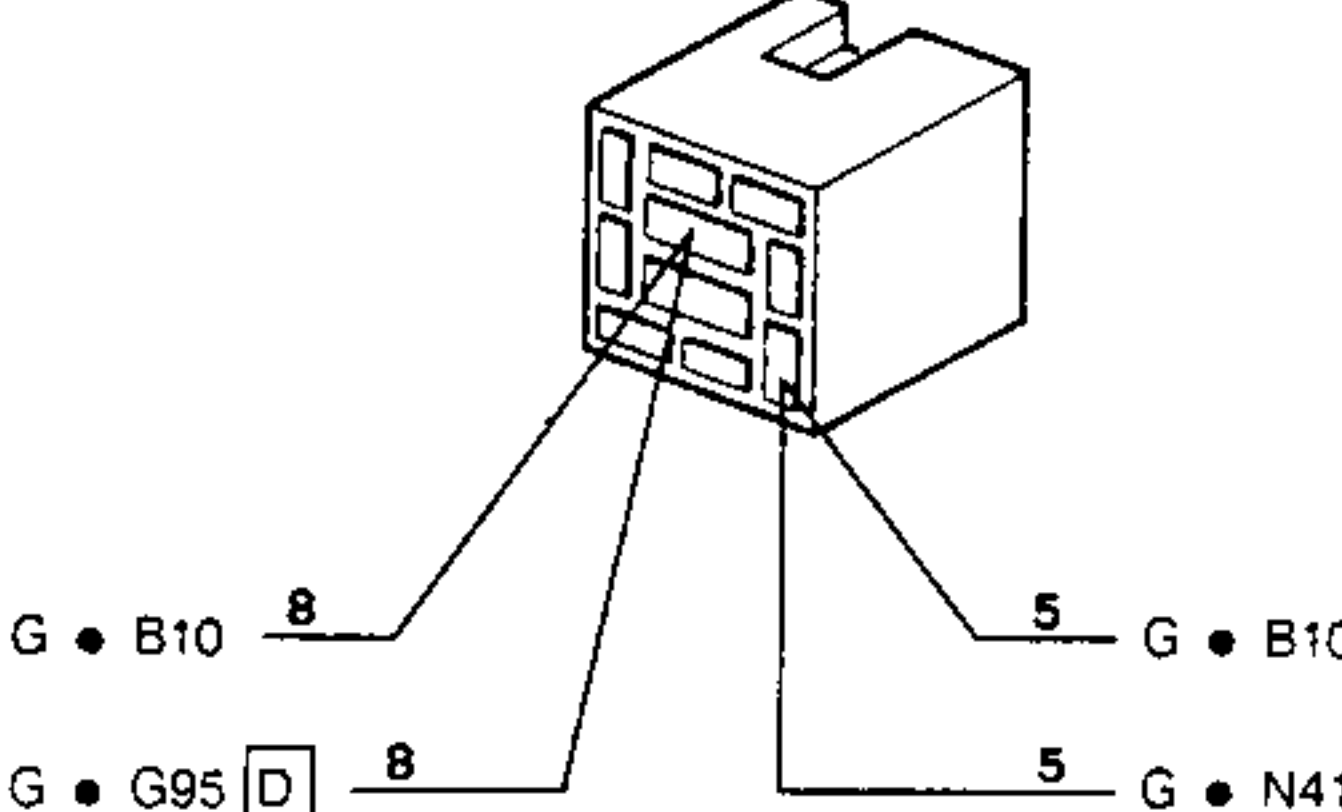
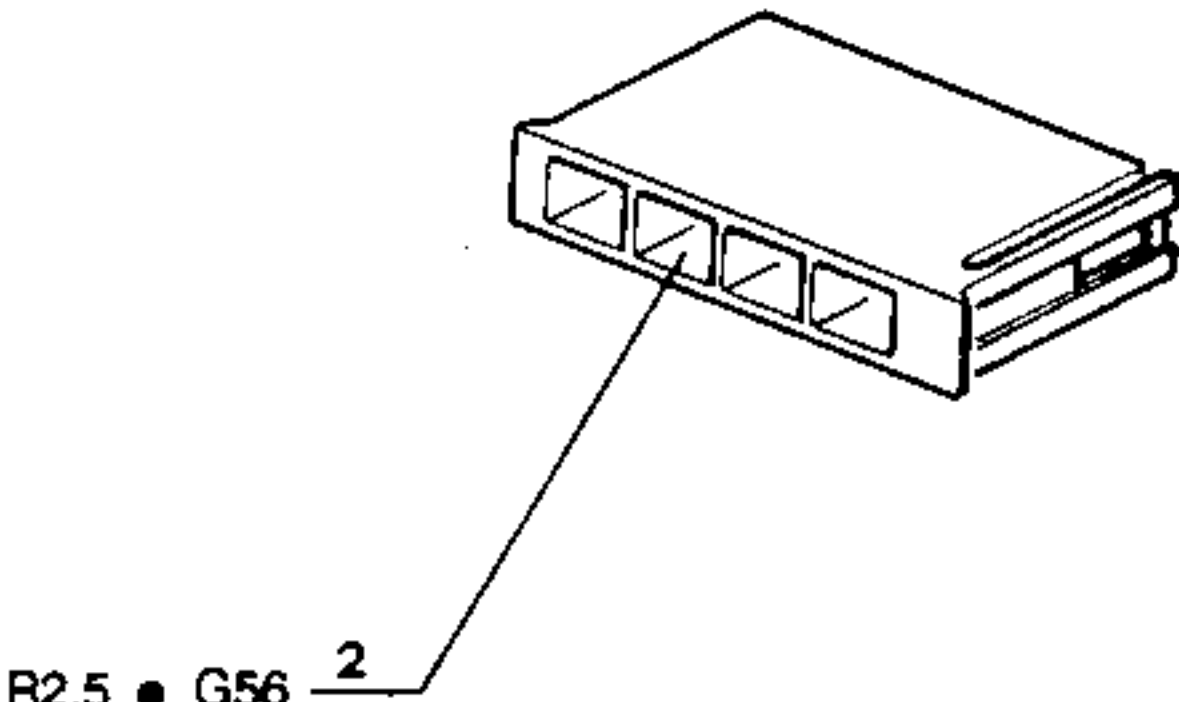
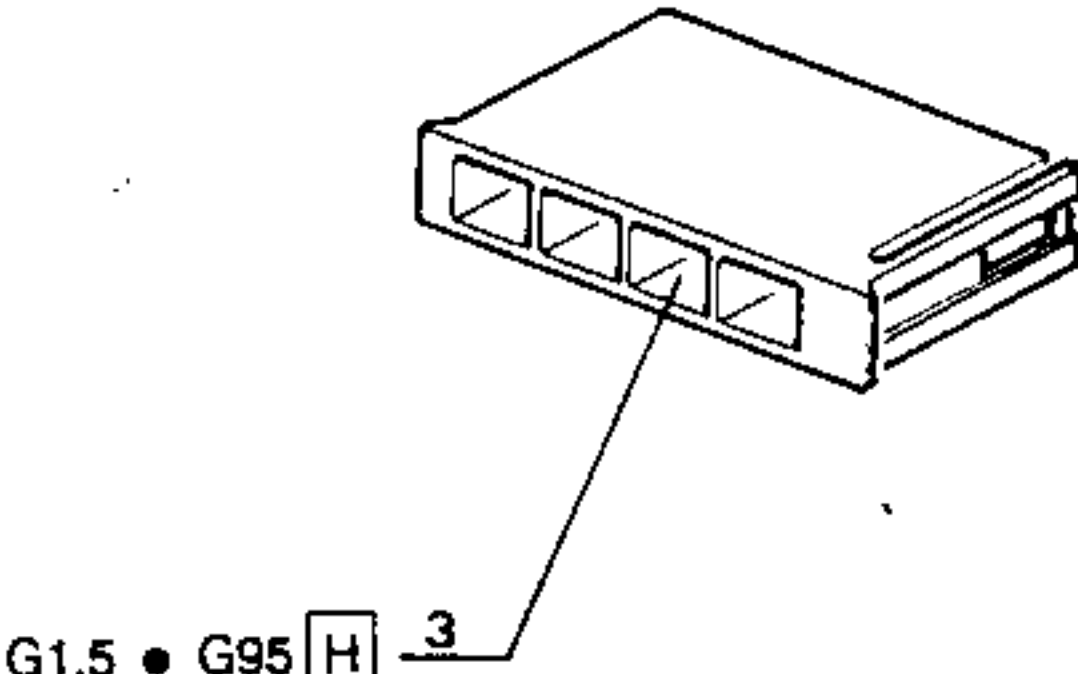


Wiring

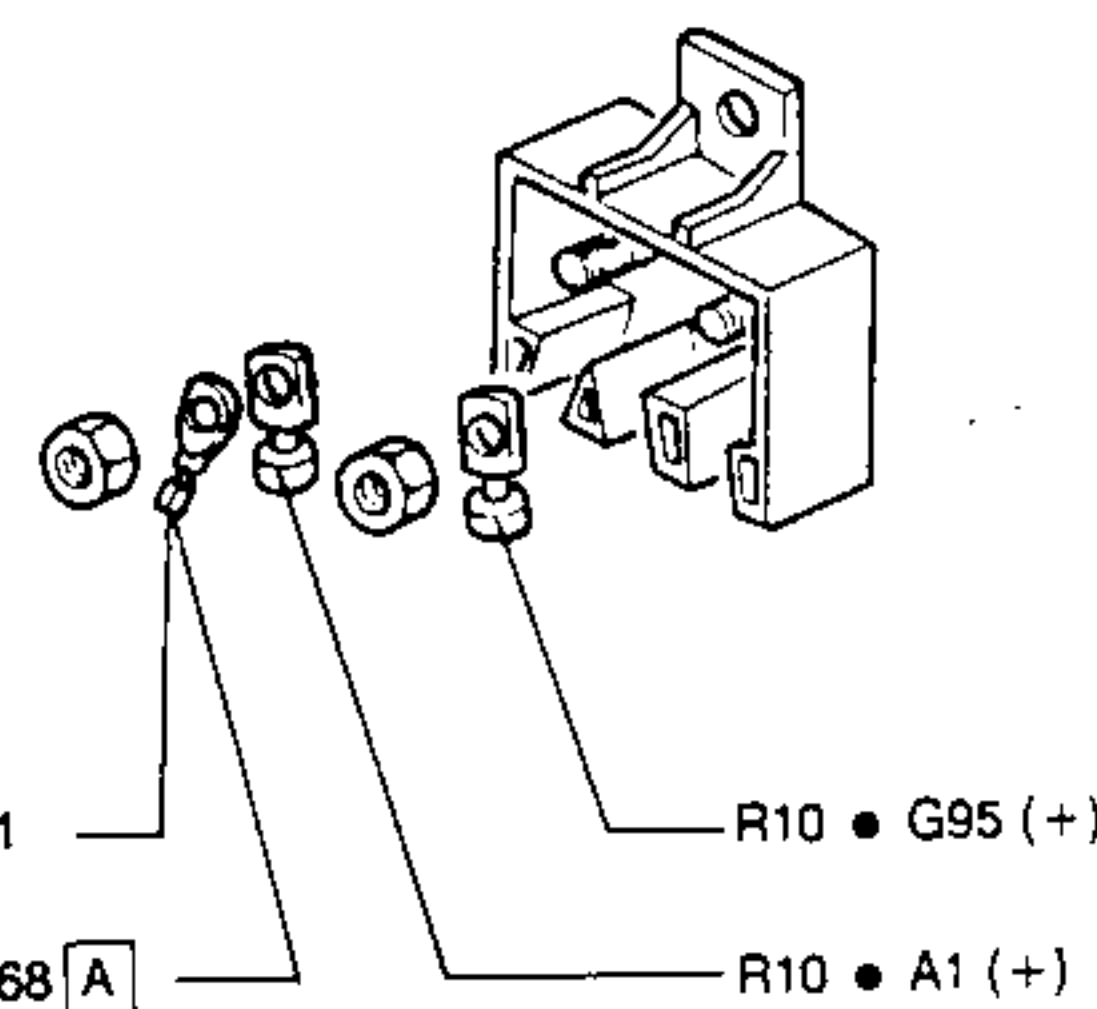
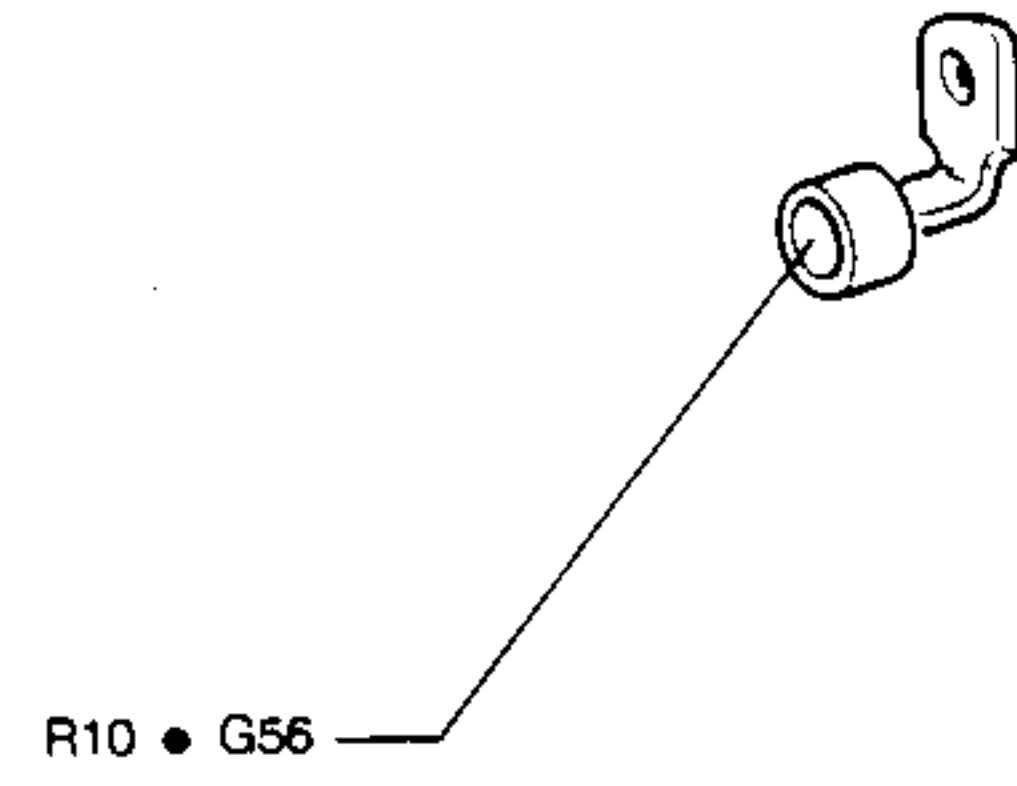
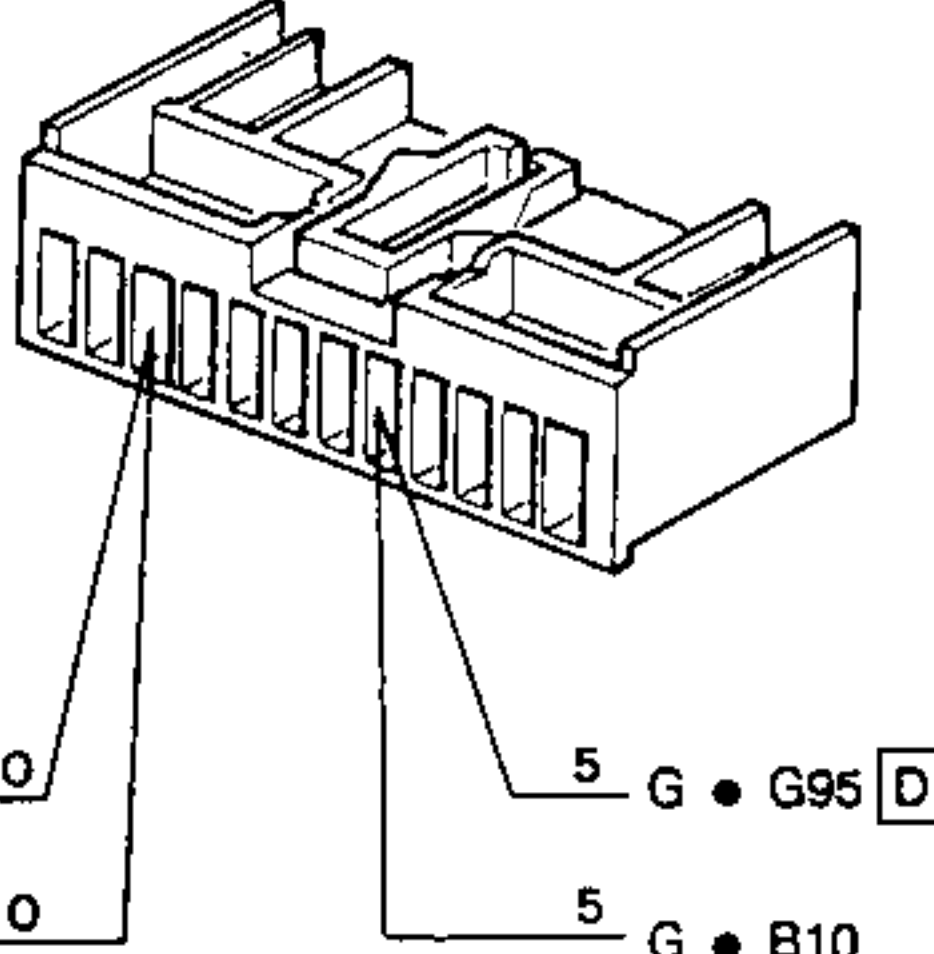
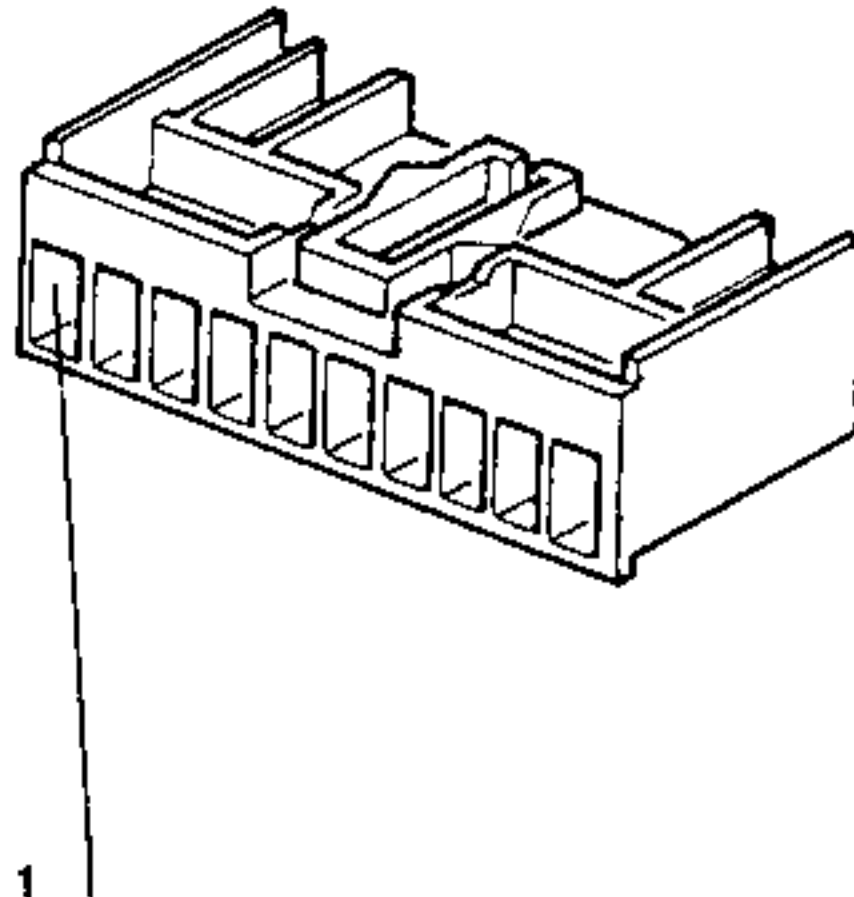
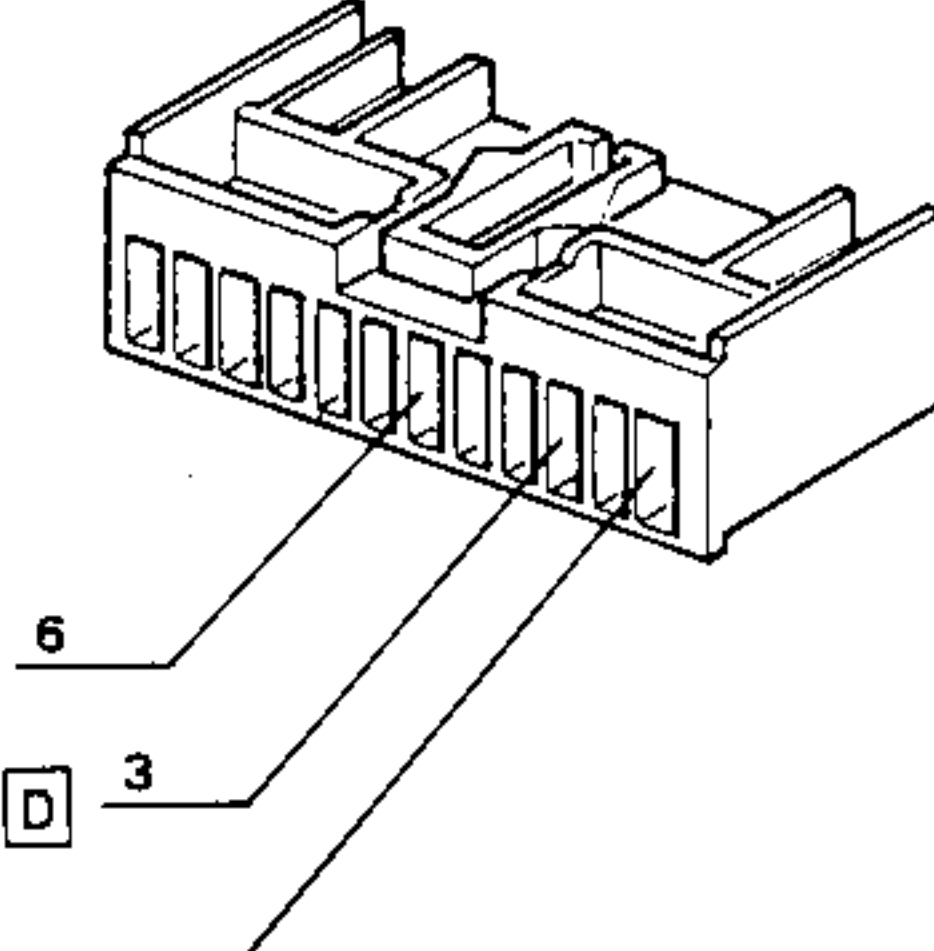
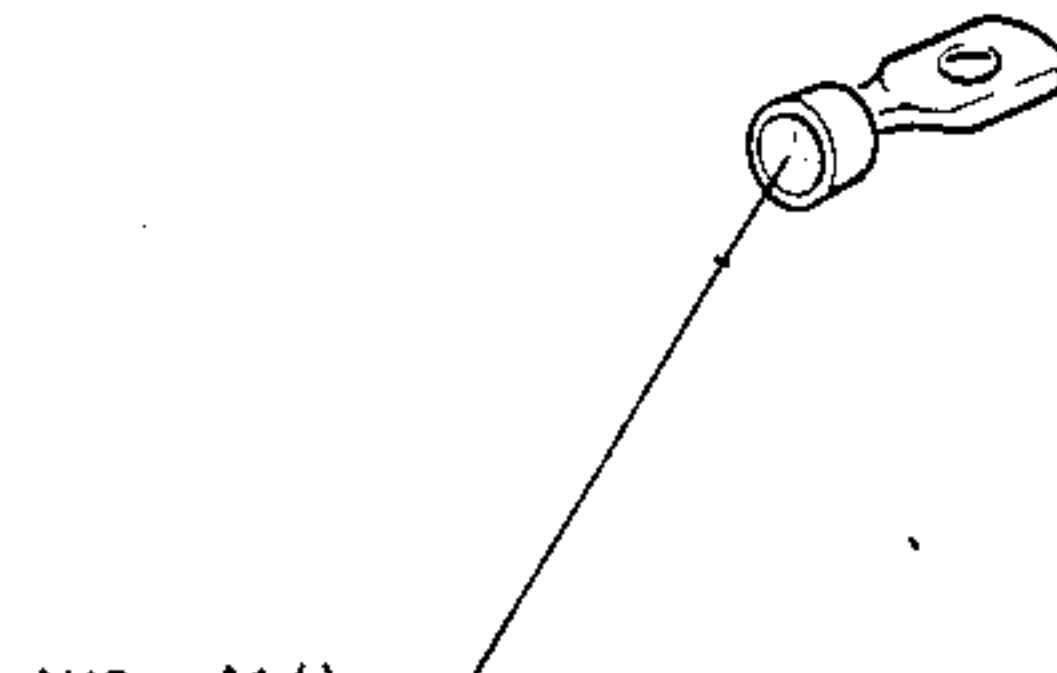


ELECTRICAL SYSTEM

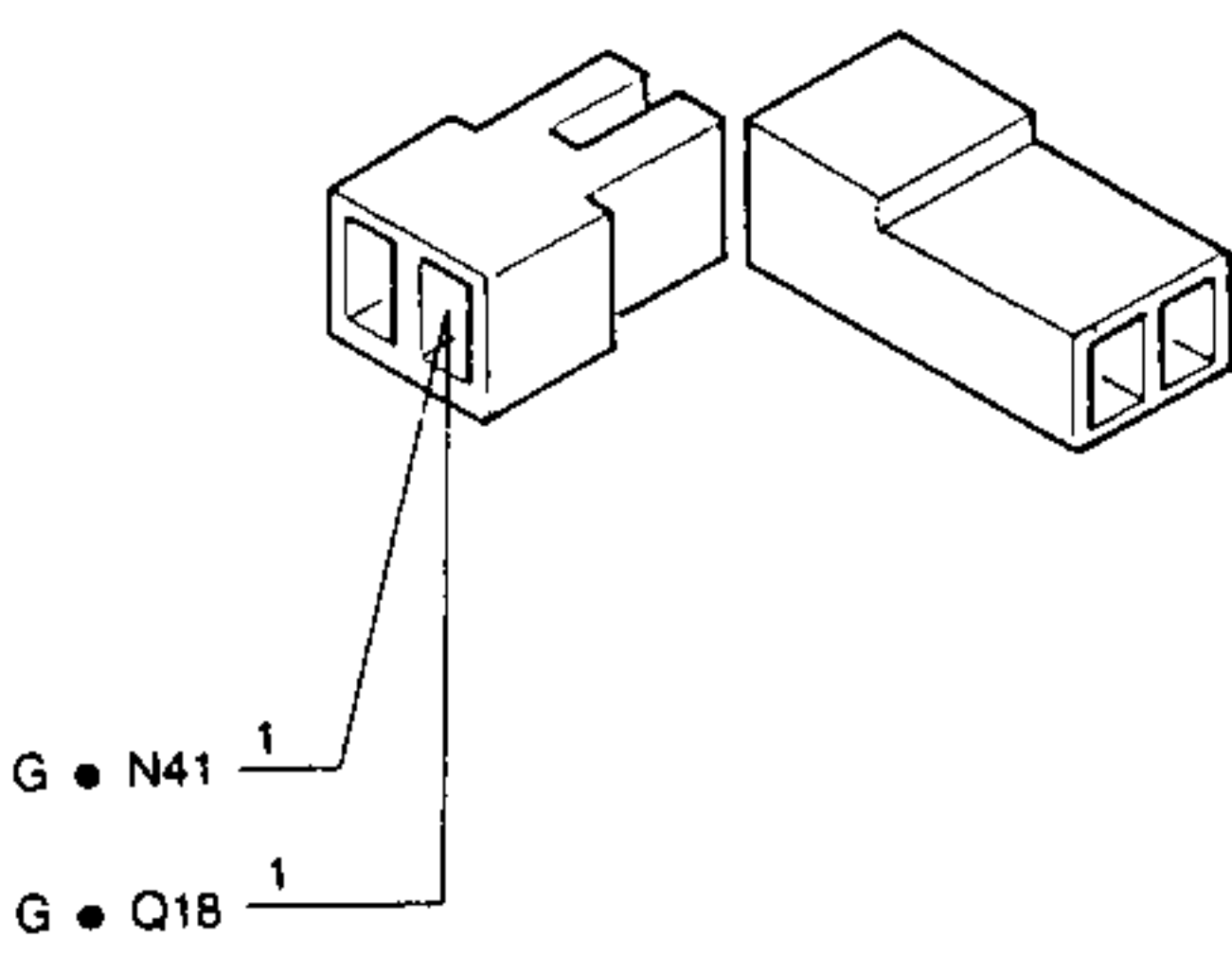
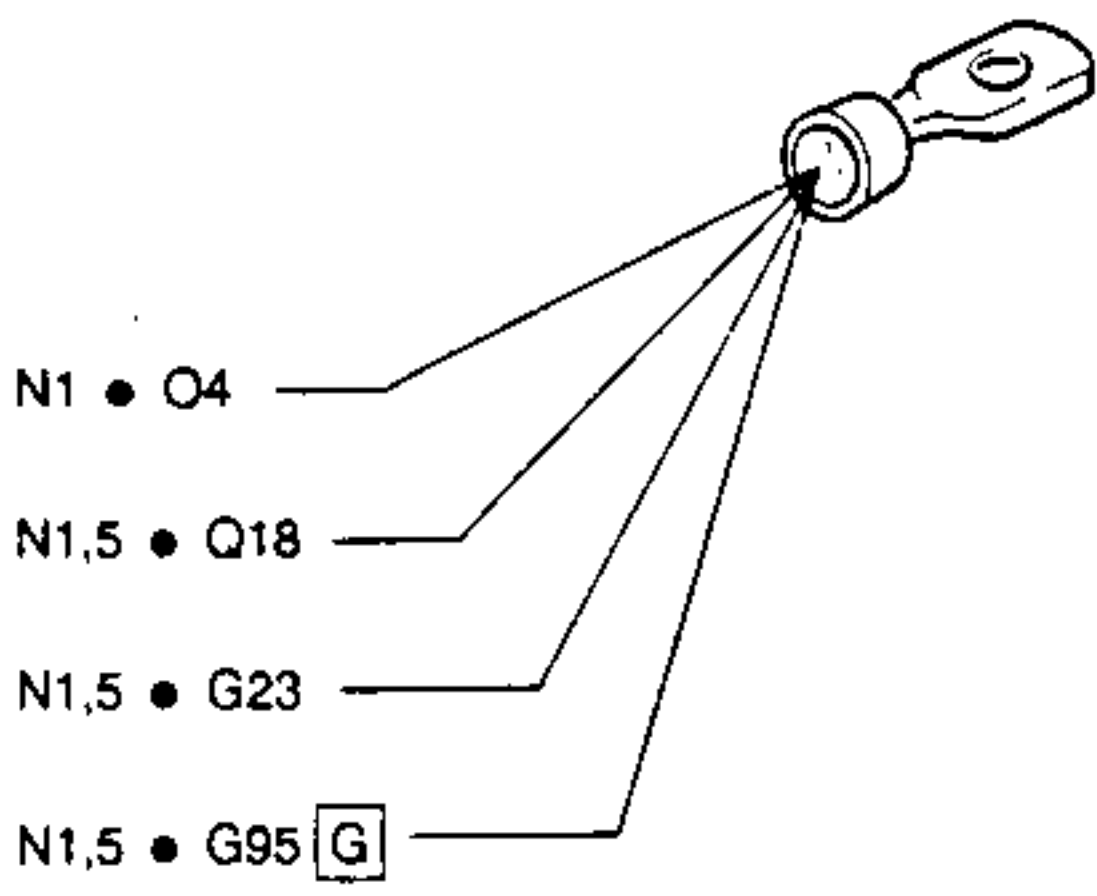
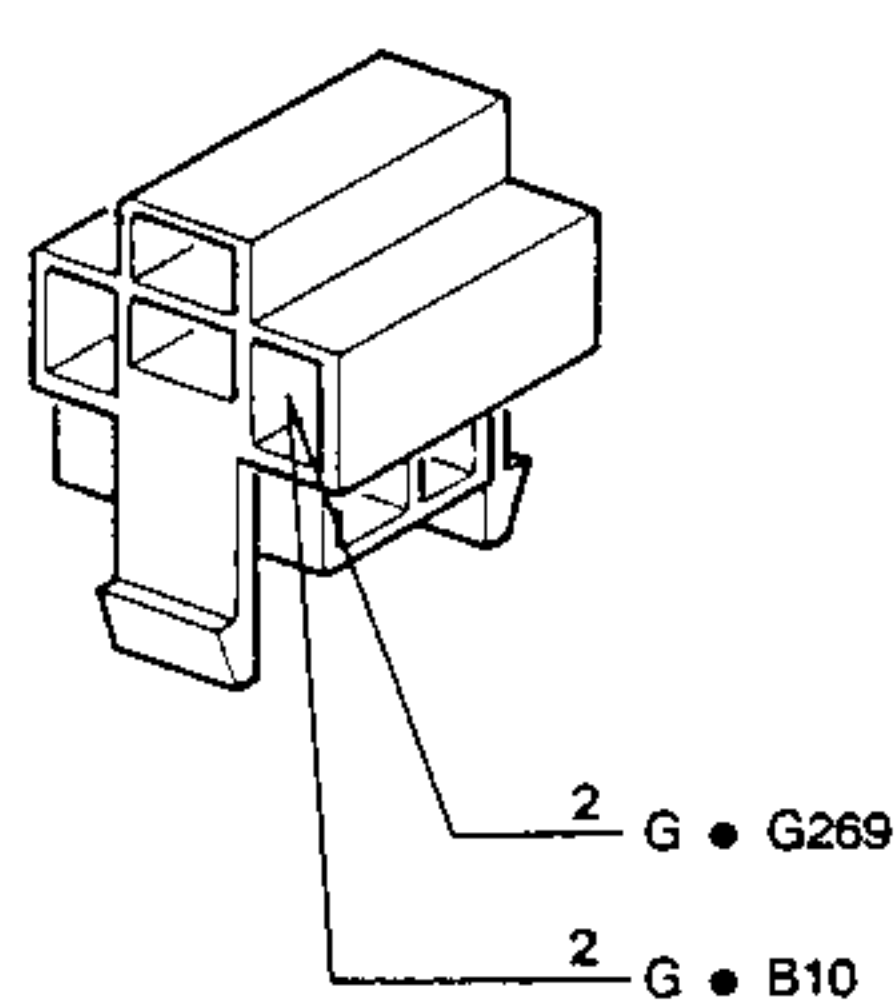
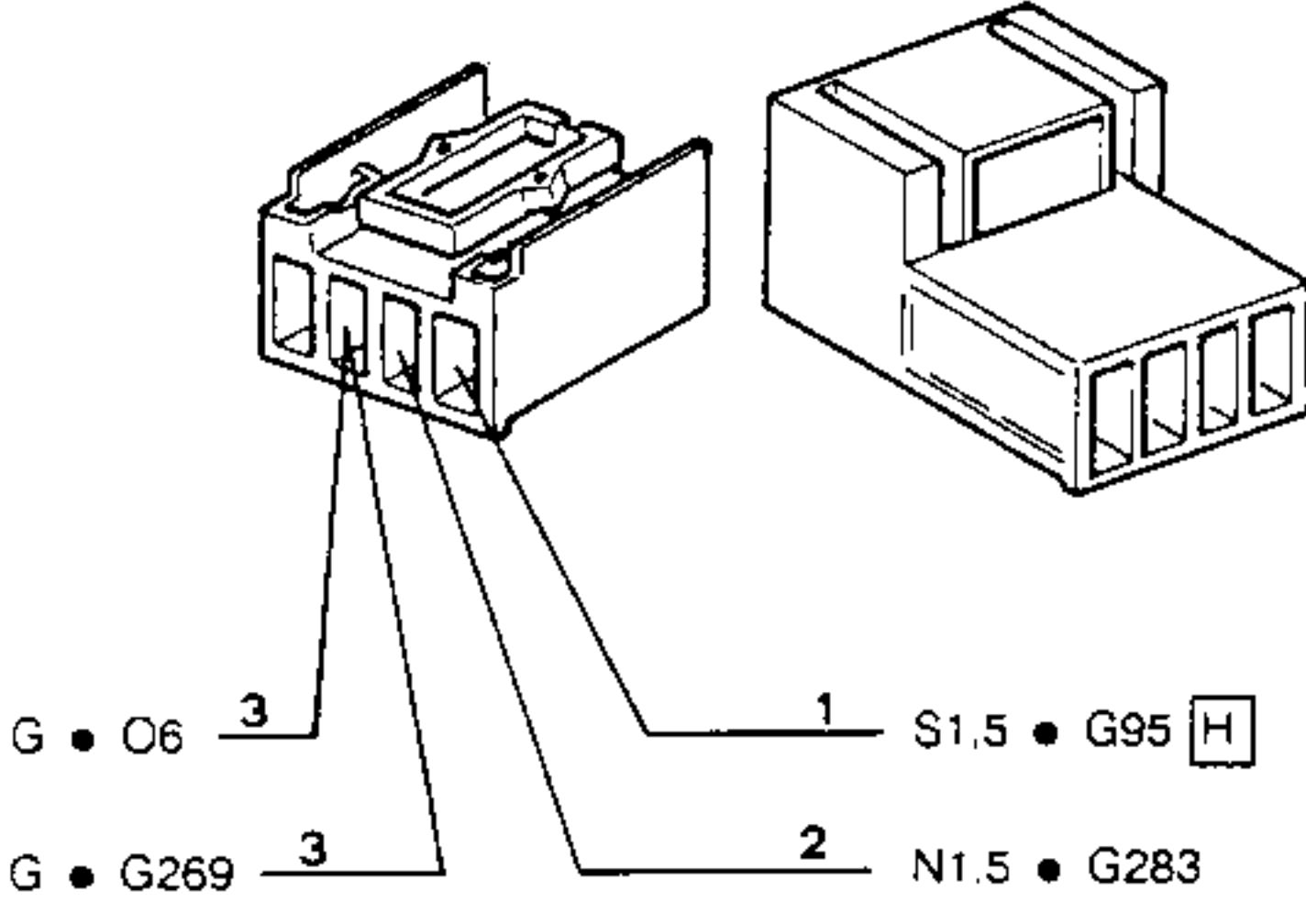
Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Fog lamp control switch</p>	<p>B10</p>
 <p>S • G95 [H] 1</p> <p>R2,5 • G56 3</p> <p>33.90.028</p>		 <p>G • B10 8</p> <p>G • G95 [D] 8</p> <p>G • B10 5</p> <p>G • N41 5</p> <p>33.90.008</p>	
<p>Turn signal switch unit</p>	<p>B68 A</p>	<p>Turn signal switch unit</p>	<p>B68 D</p>
 <p>R2,5 • G56 2</p> <p>33.90.027</p>		 <p>G1,5 • G95 [H] 3</p> <p>33.90.027</p>	

ELECTRICAL SYSTEM

<p>Branch terminal board</p>	<p>G56</p>	<p>Central fusebox</p>	<p>G95</p>
 <p>R2,5 ● B1</p> <p>R2,5 ● B68 <span style="border: 1px solid black; padding: 0 2px;">A</span></p> <p>R10 ● G95 (+)</p> <p>R10 ● A1 (+)</p> <p style="text-align: right;">33.90.011</p>		 <p>R10 ● G56</p> <p style="text-align: right;">33.90.006</p>	
<p>Central fusebox</p>	<p>G95 <span style="border: 1px solid black; padding: 0 2px;">D</span></p>	<p>Central fusebox</p>	<p>G95 <span style="border: 1px solid black; padding: 0 2px;">G</span></p>
 <p>G ● G95 <span style="border: 1px solid black; padding: 0 2px;">D</span> 10</p> <p>G ● C10 <span style="border: 1px solid black; padding: 0 2px;">B</span> 10</p> <p>5 G ● G95 <span style="border: 1px solid black; padding: 0 2px;">D</span></p> <p>5 G ● B10</p> <p style="text-align: right;">33.90.004</p>		 <p>N1,5 ● G283 1</p> <p style="text-align: right;">33.90.005</p>	
<p>Central fusebox</p>	<p>G95 <span style="border: 1px solid black; padding: 0 2px;">H</span></p>	<p>Central service compartment earth</p>	<p>G143</p>
 <p>S1,5 ● Q18 6</p> <p>G1,5 ● B68 <span style="border: 1px solid black; padding: 0 2px;">D</span> 3</p> <p>S ● B1 1</p> <p style="text-align: right;">33.90.004</p>		 <p>N10 ● A1 (-)</p> <p style="text-align: right;">33.90.001</p>	

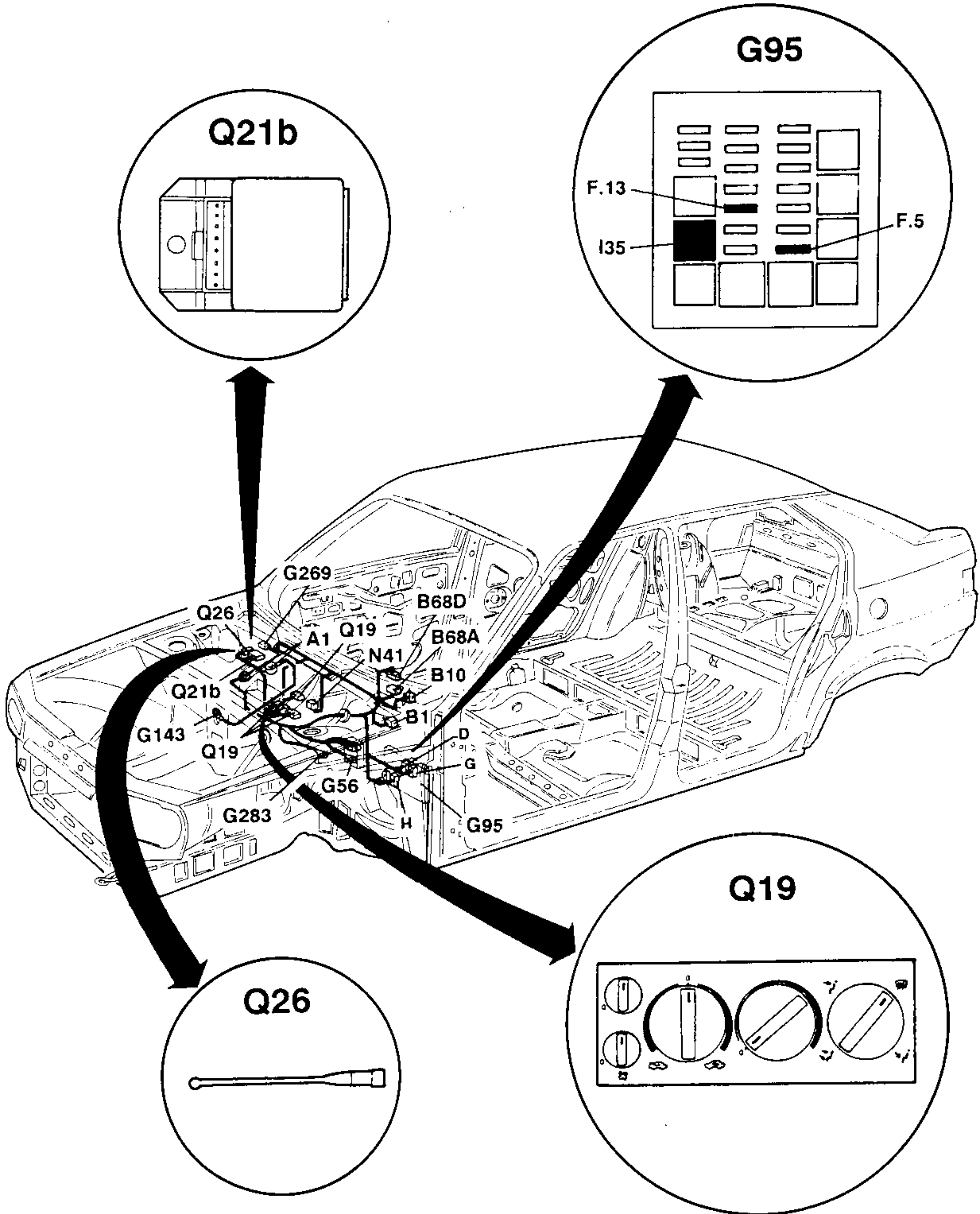
# ELECTRICAL SYSTEM

<p style="text-align: center;"><b>Glove compartment lamp connection</b></p> <p style="text-align: right;"><b>G269</b></p>	<p style="text-align: center;"><b>Earth on left service compartment</b></p> <p style="text-align: right;"><b>G283</b></p>
 <p style="text-align: right;">33.90.013</p>	 <p style="text-align: right;">33.90.001</p>
<p style="text-align: center;"><b>Control unit lights on signal</b></p> <p style="text-align: right;"><b>N41</b></p>	<p style="text-align: center;"><b>Heater</b></p> <p style="text-align: right;"><b>Q18</b></p>
 <p style="text-align: right;">33.90.022</p>	 <p style="text-align: right;">33.90.018</p>



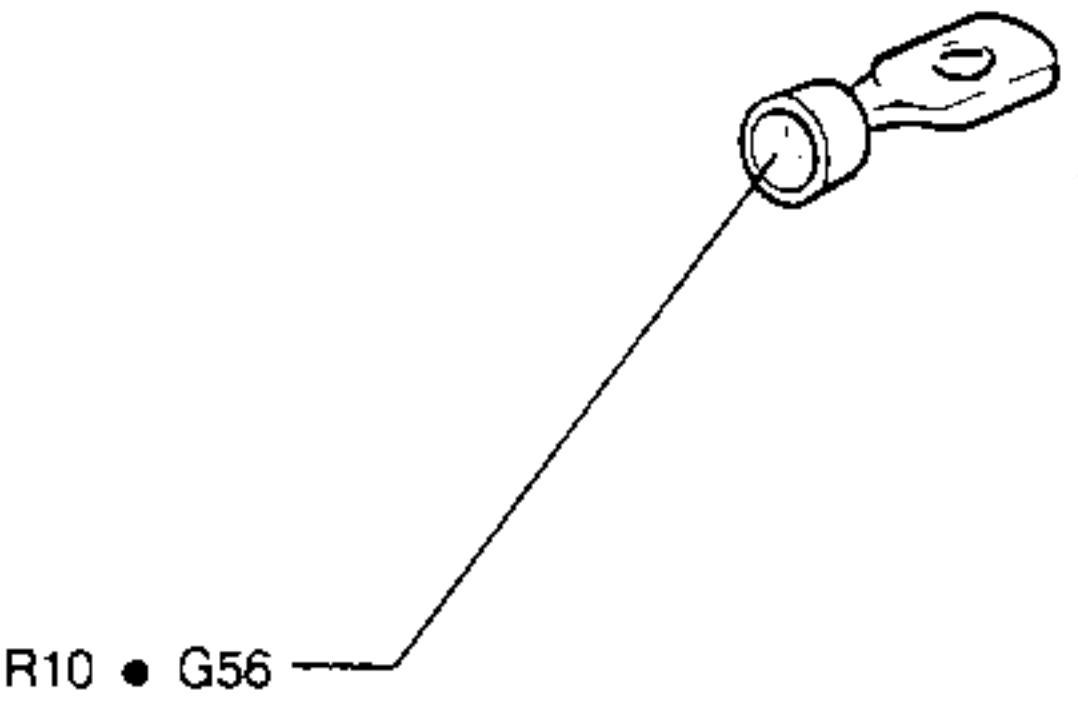
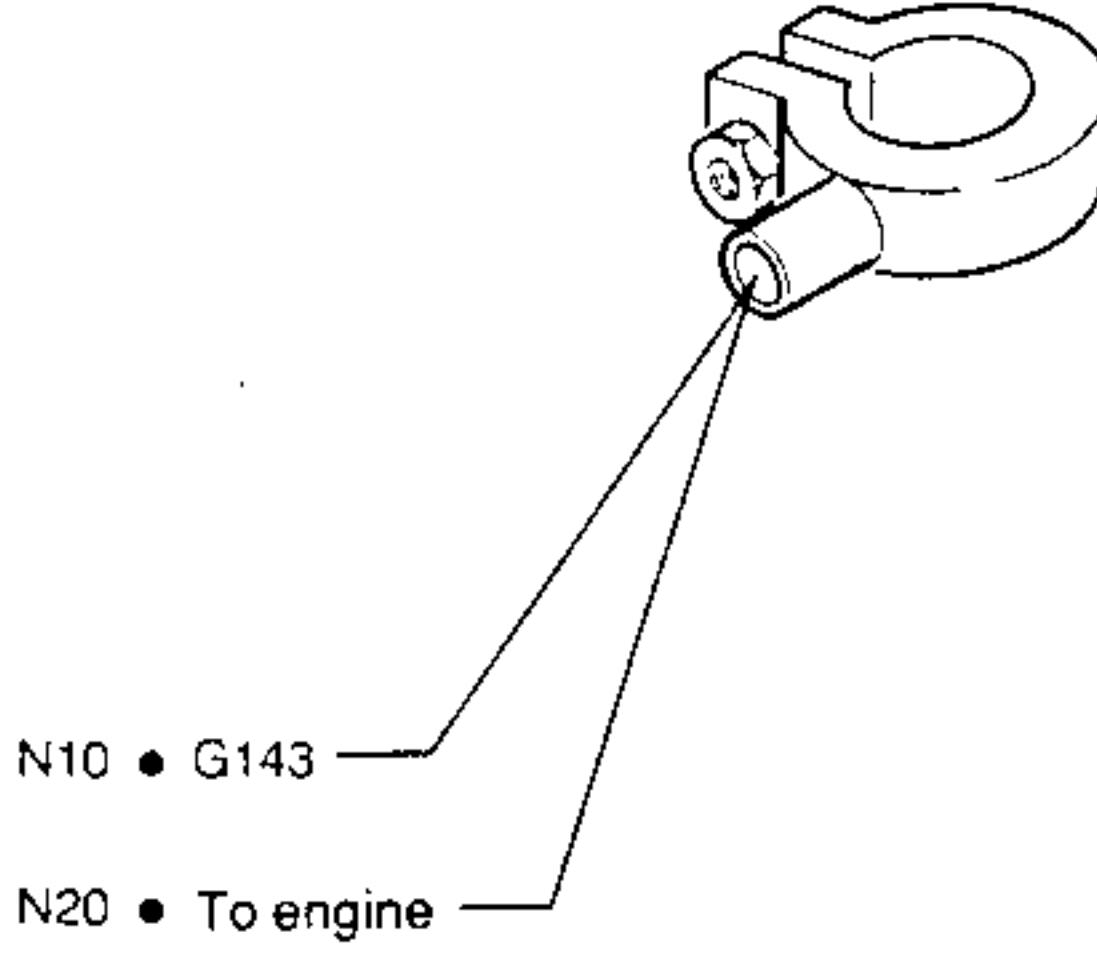
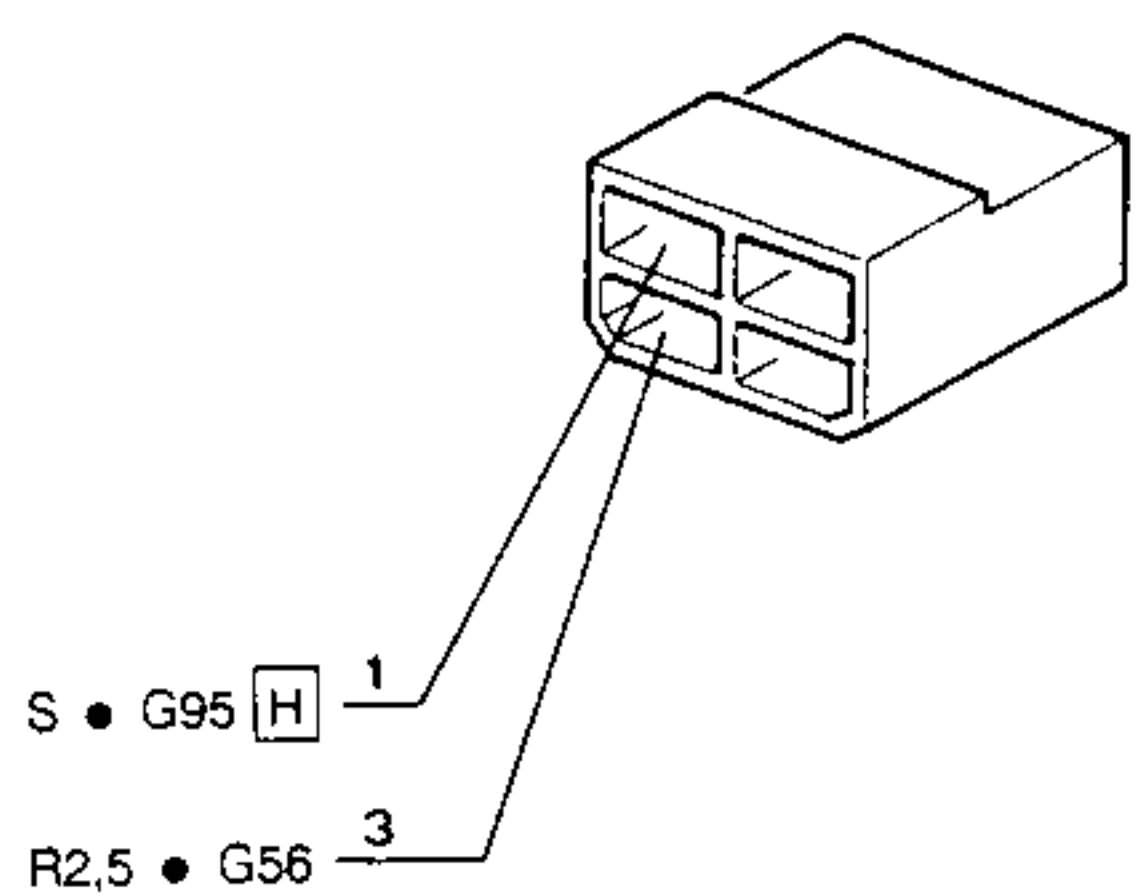
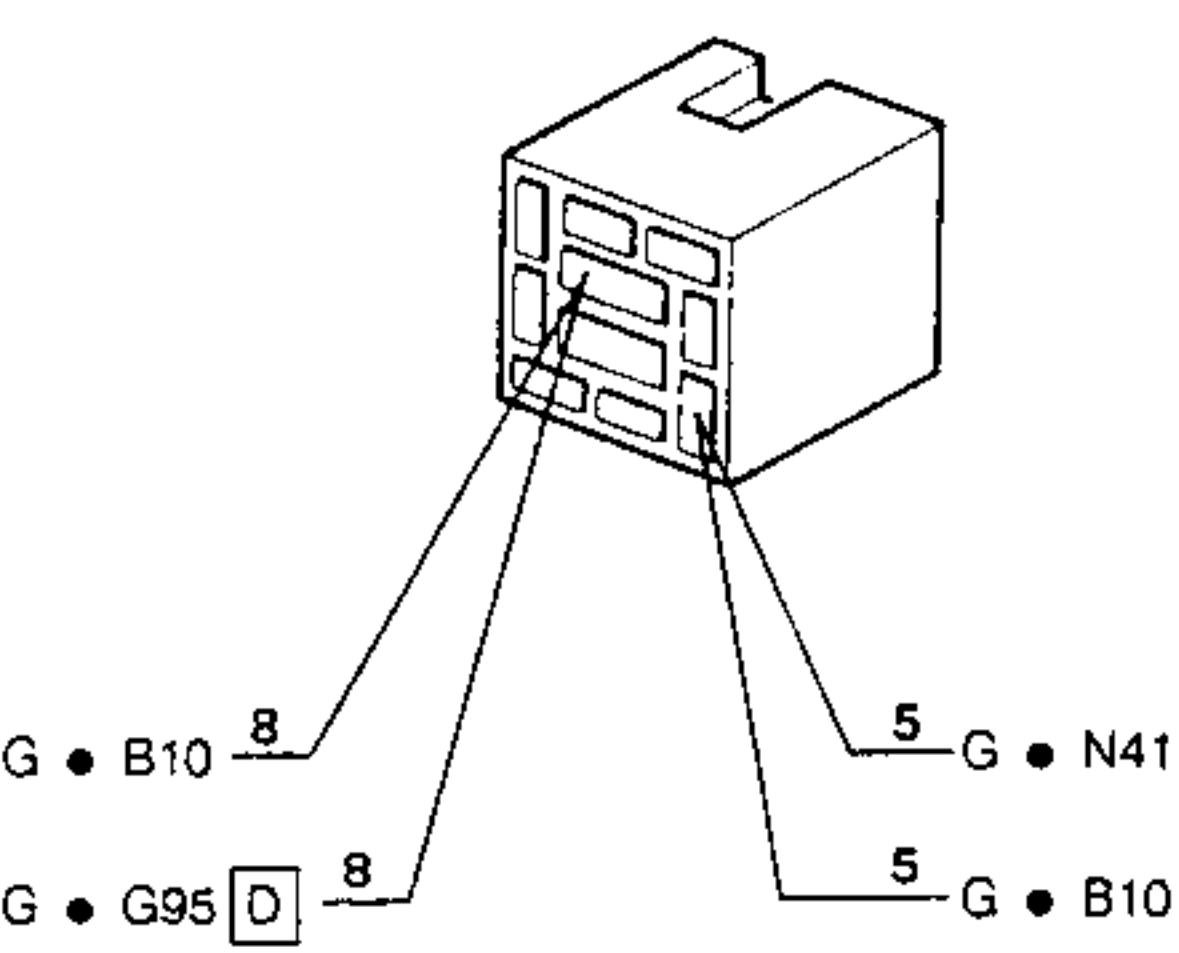
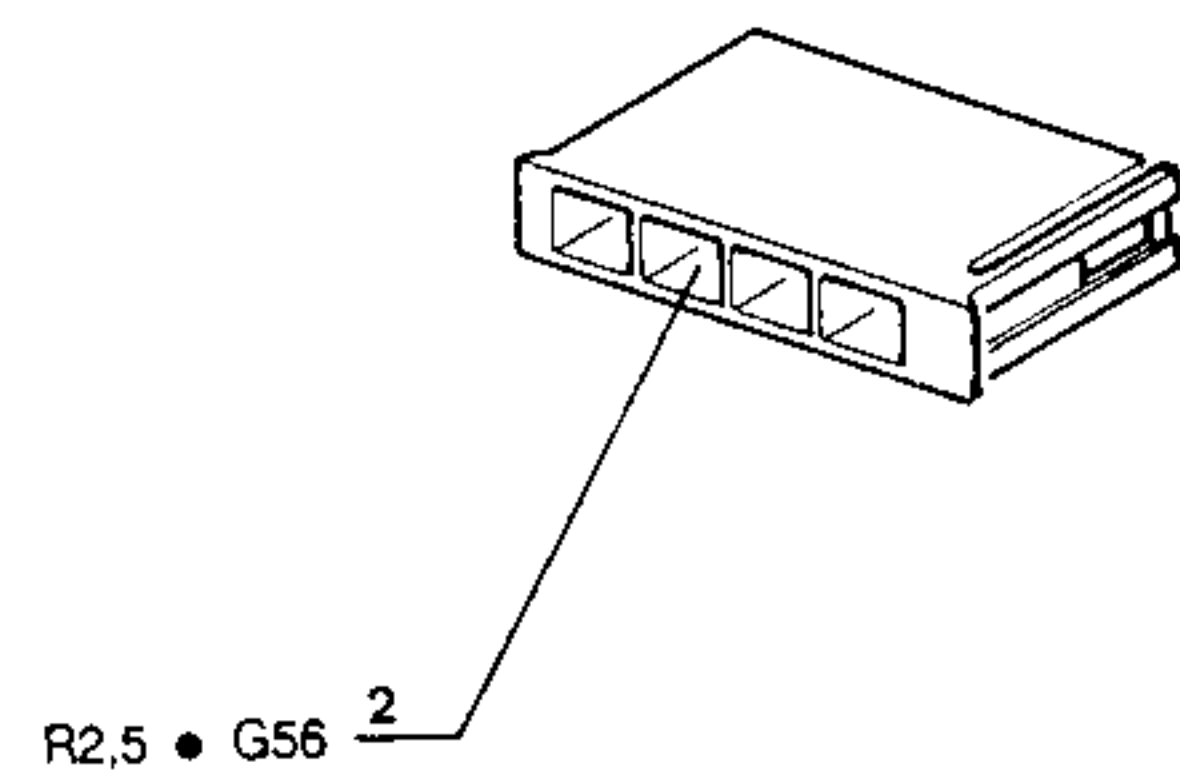
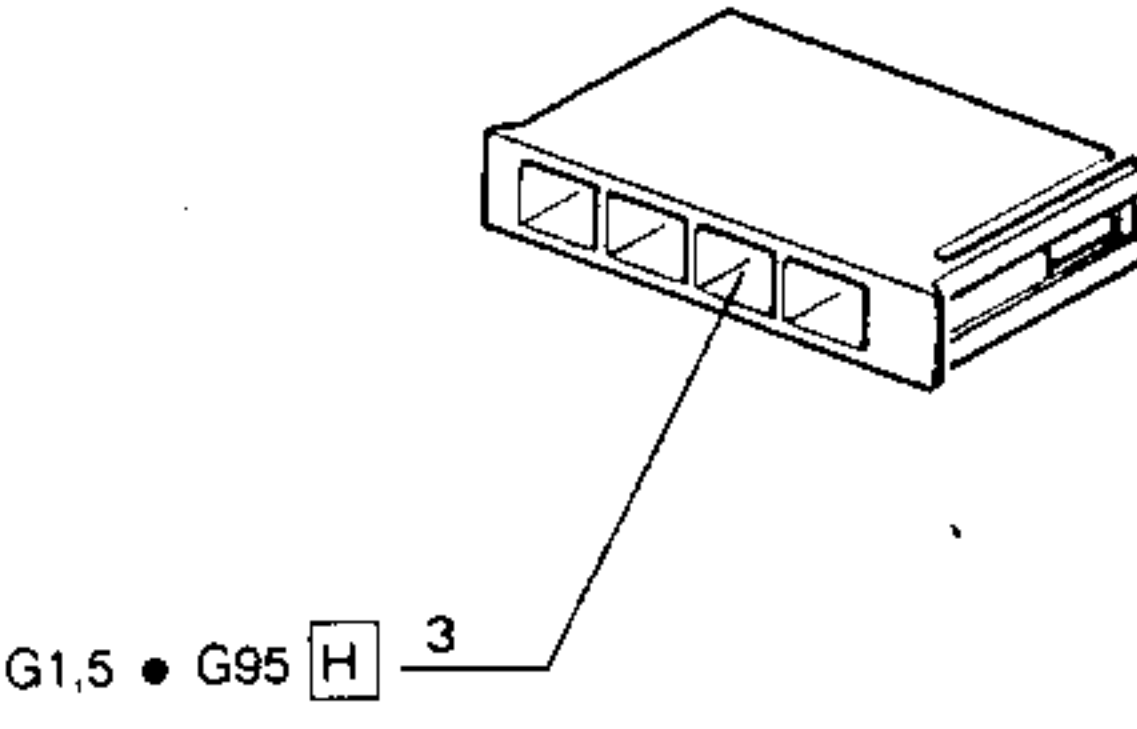


Wiring

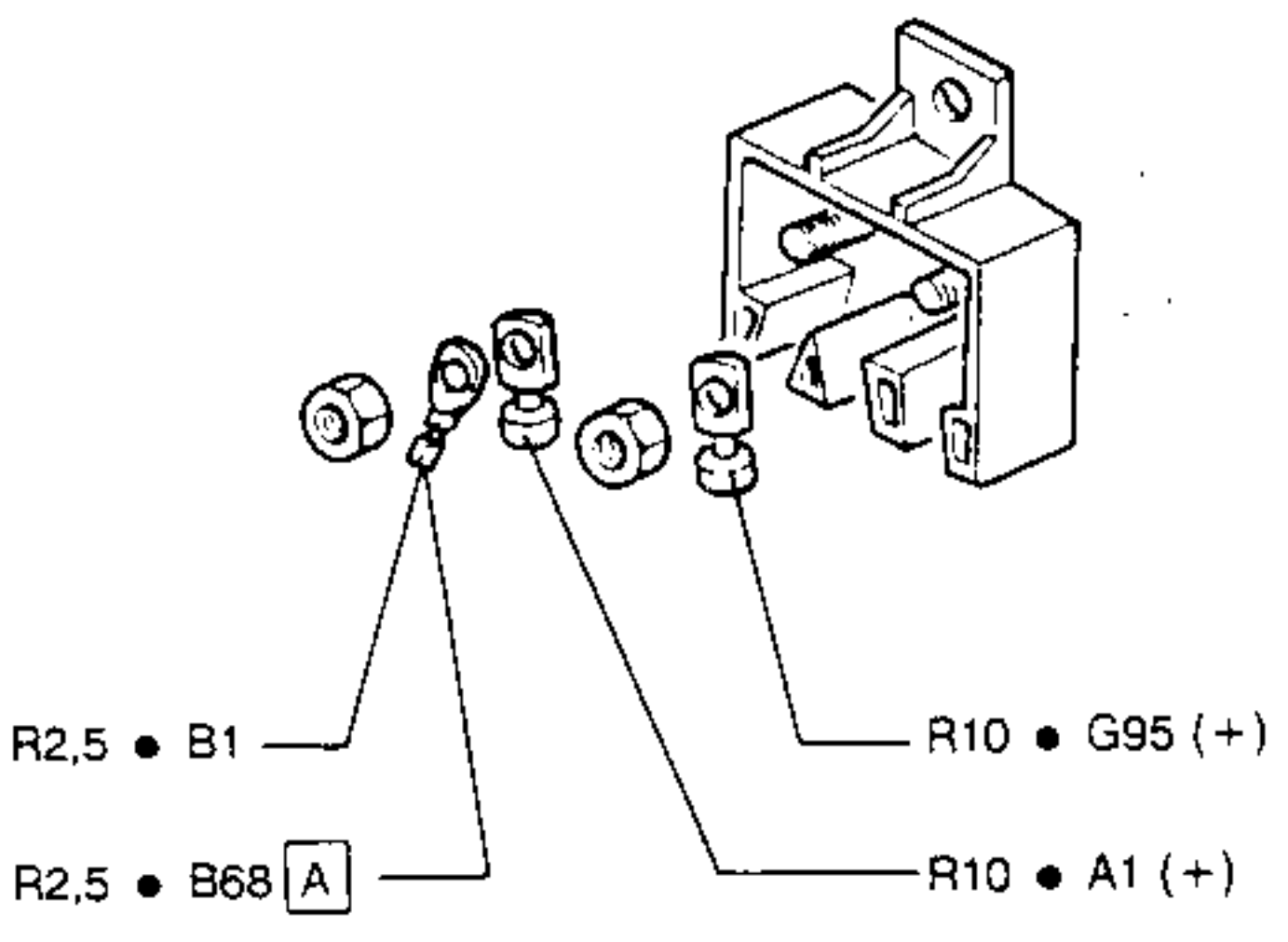
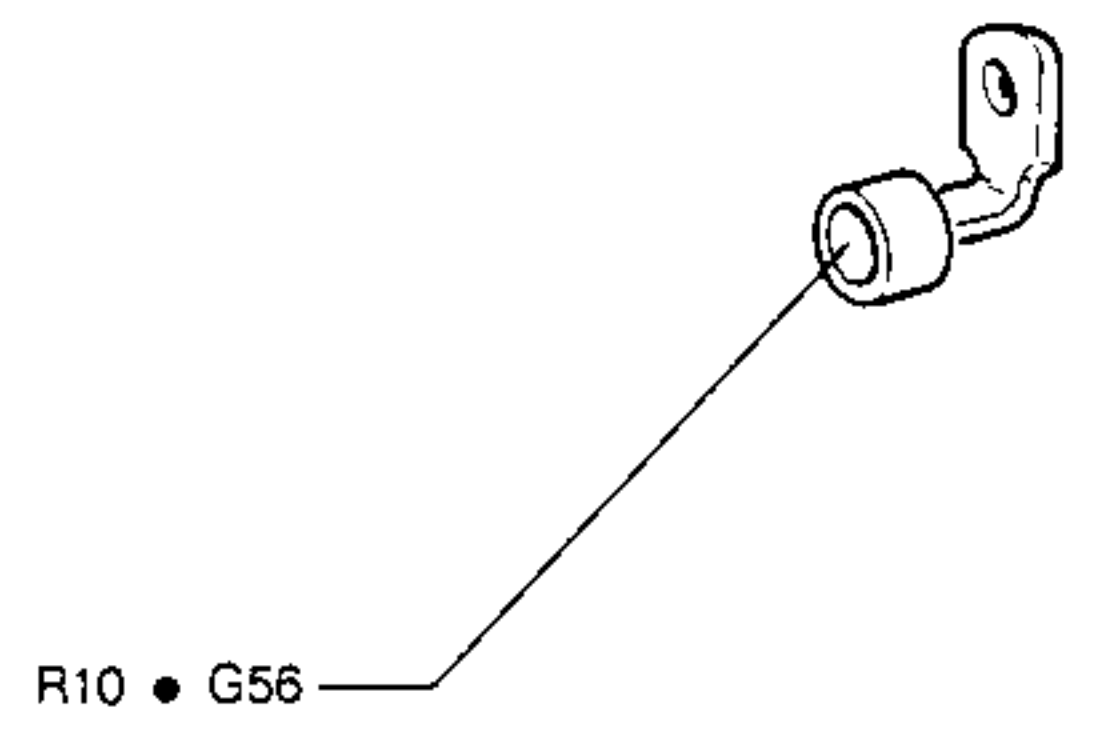
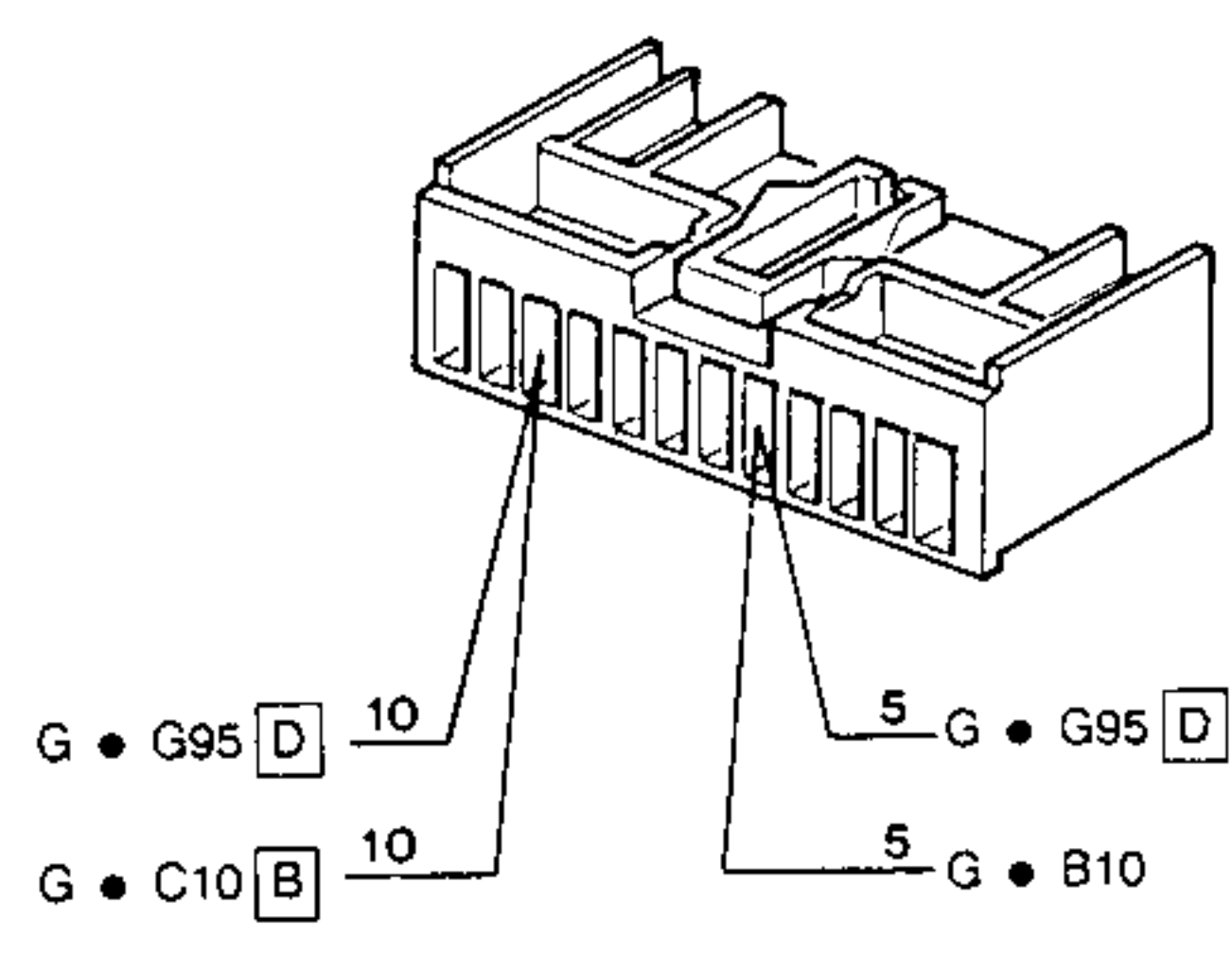
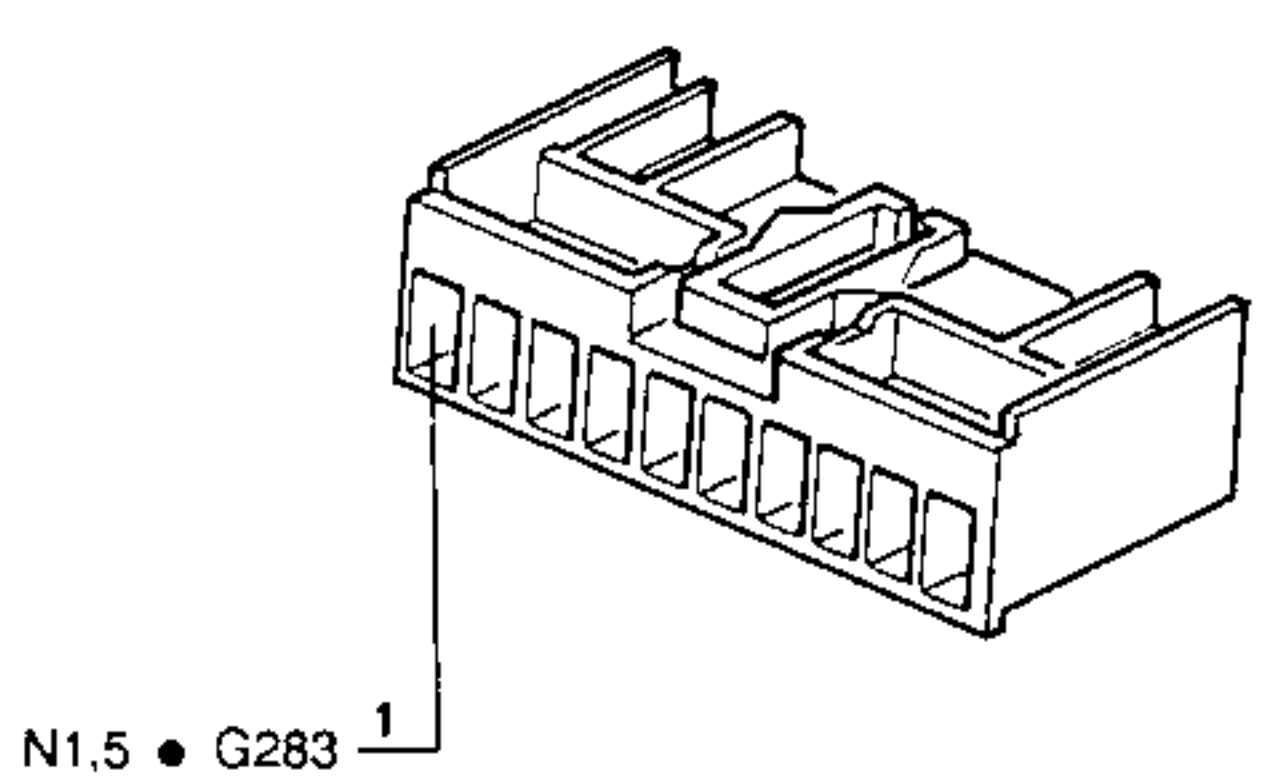
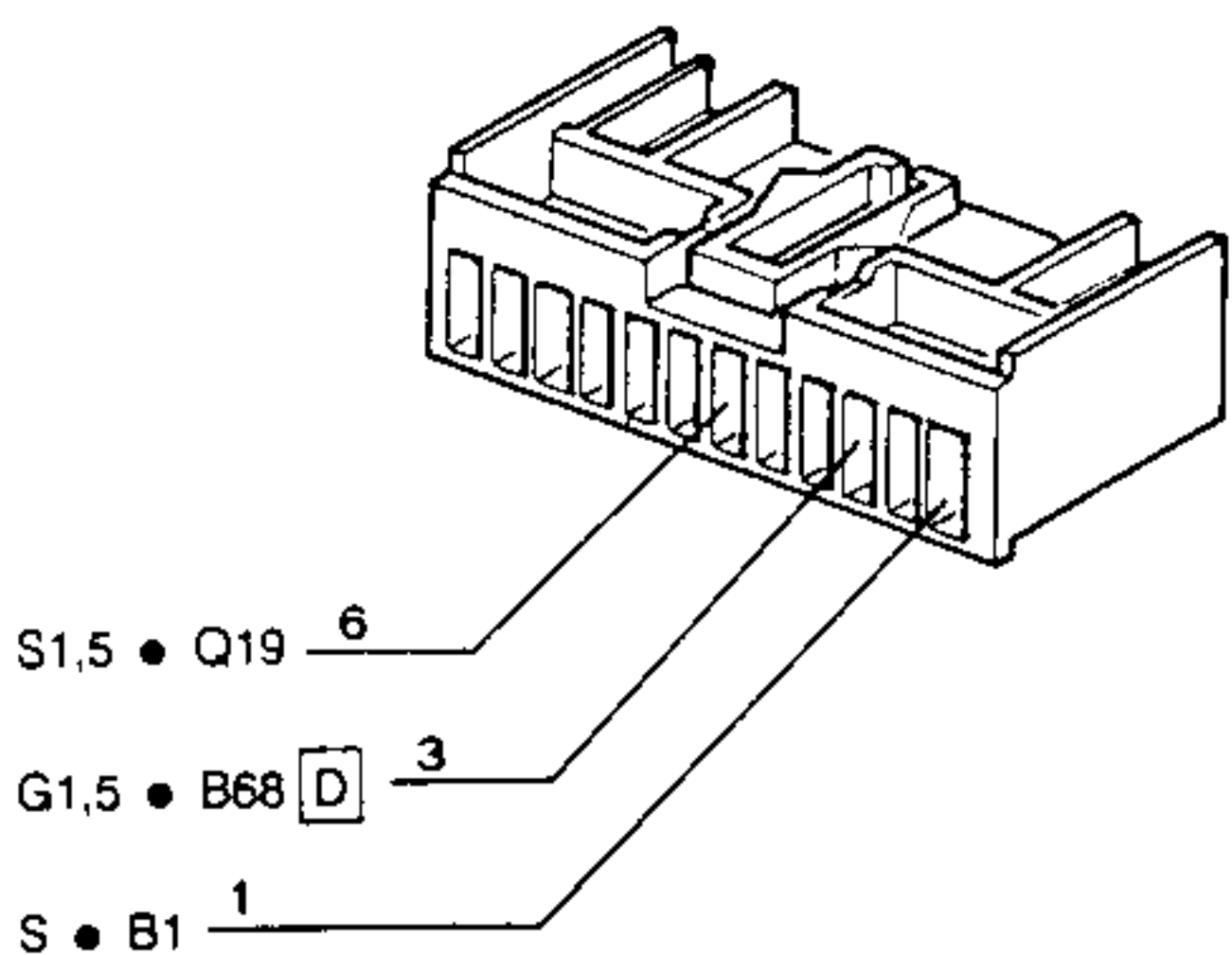
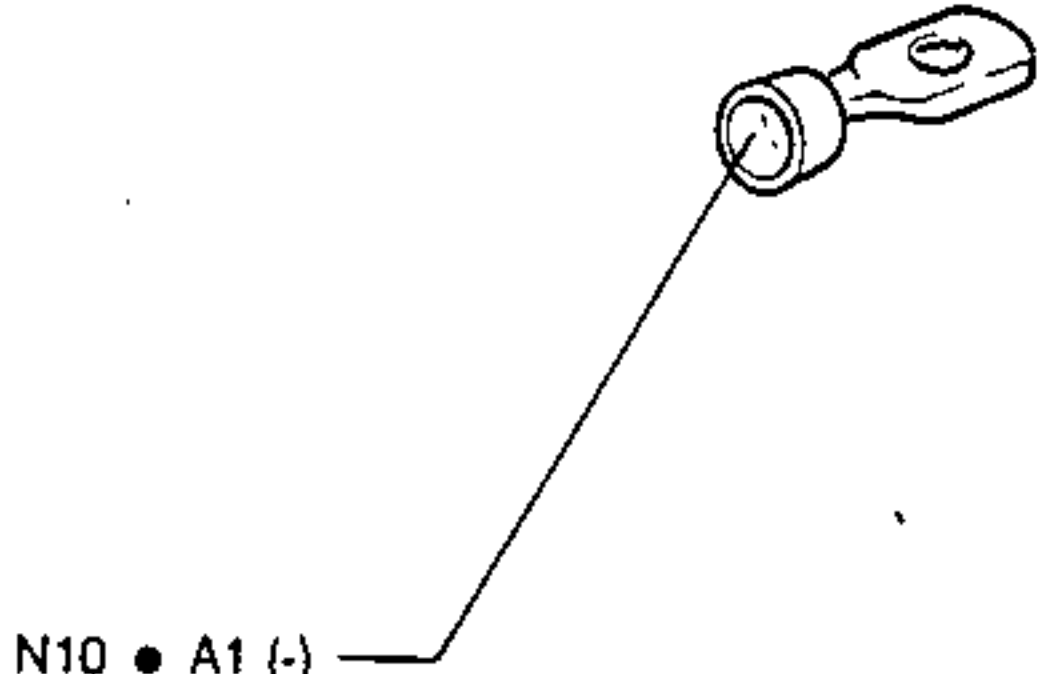


ELECTRICAL SYSTEM

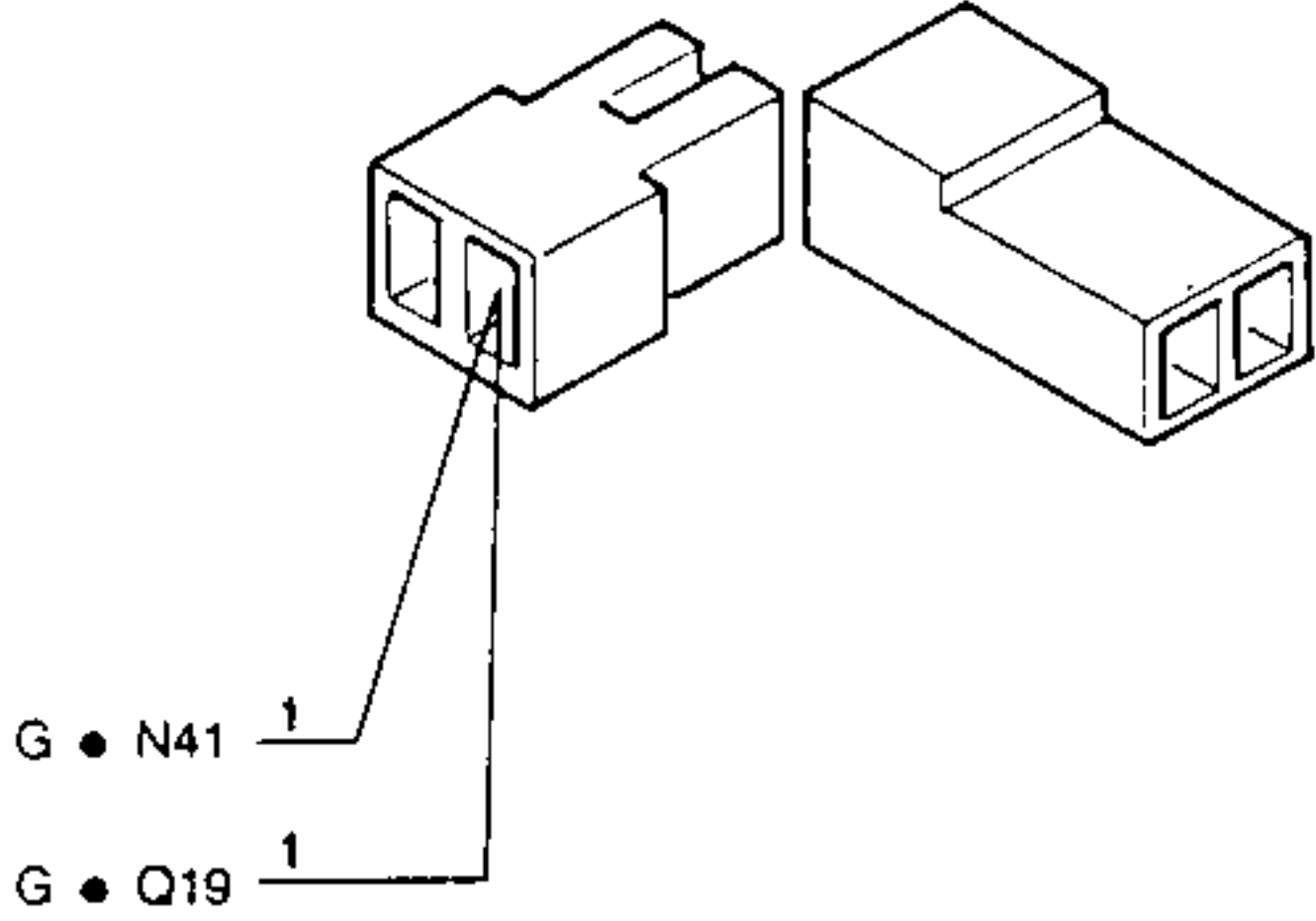
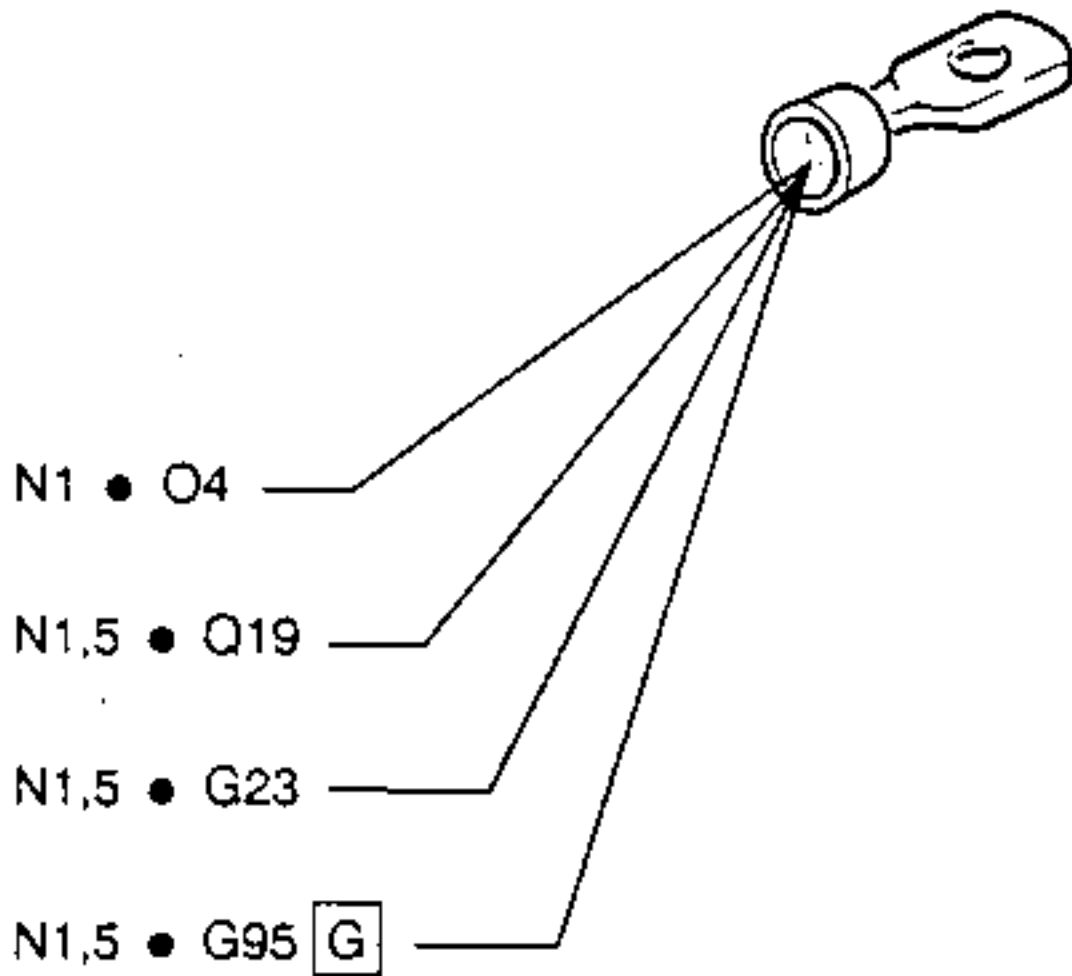
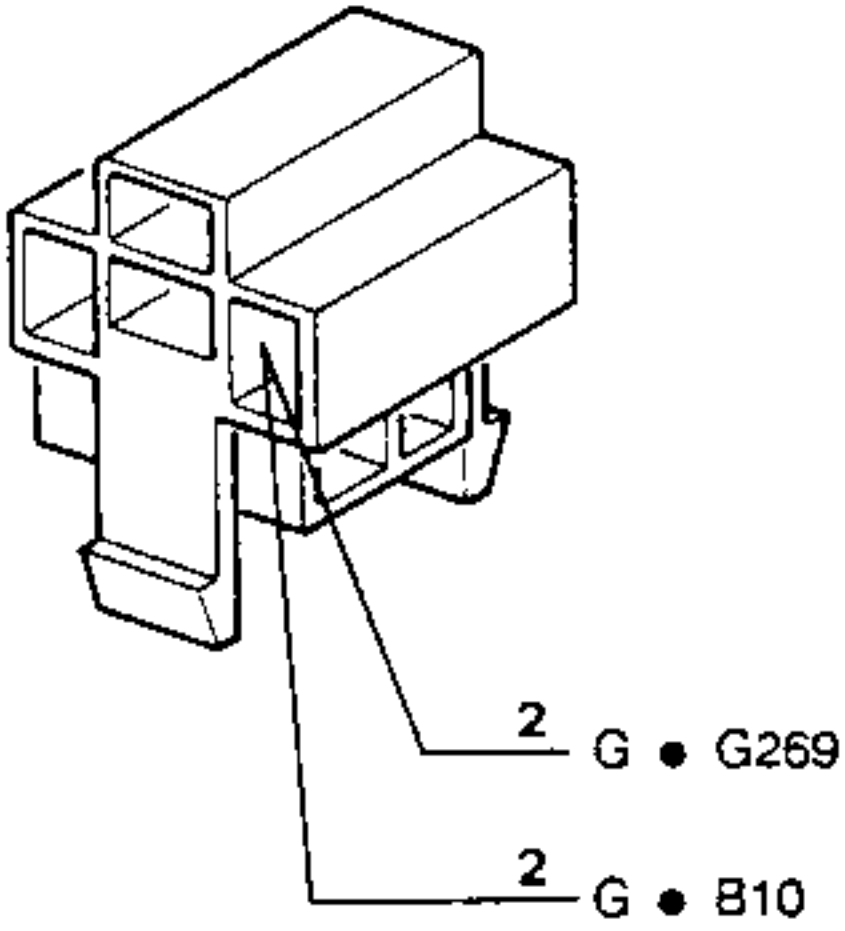
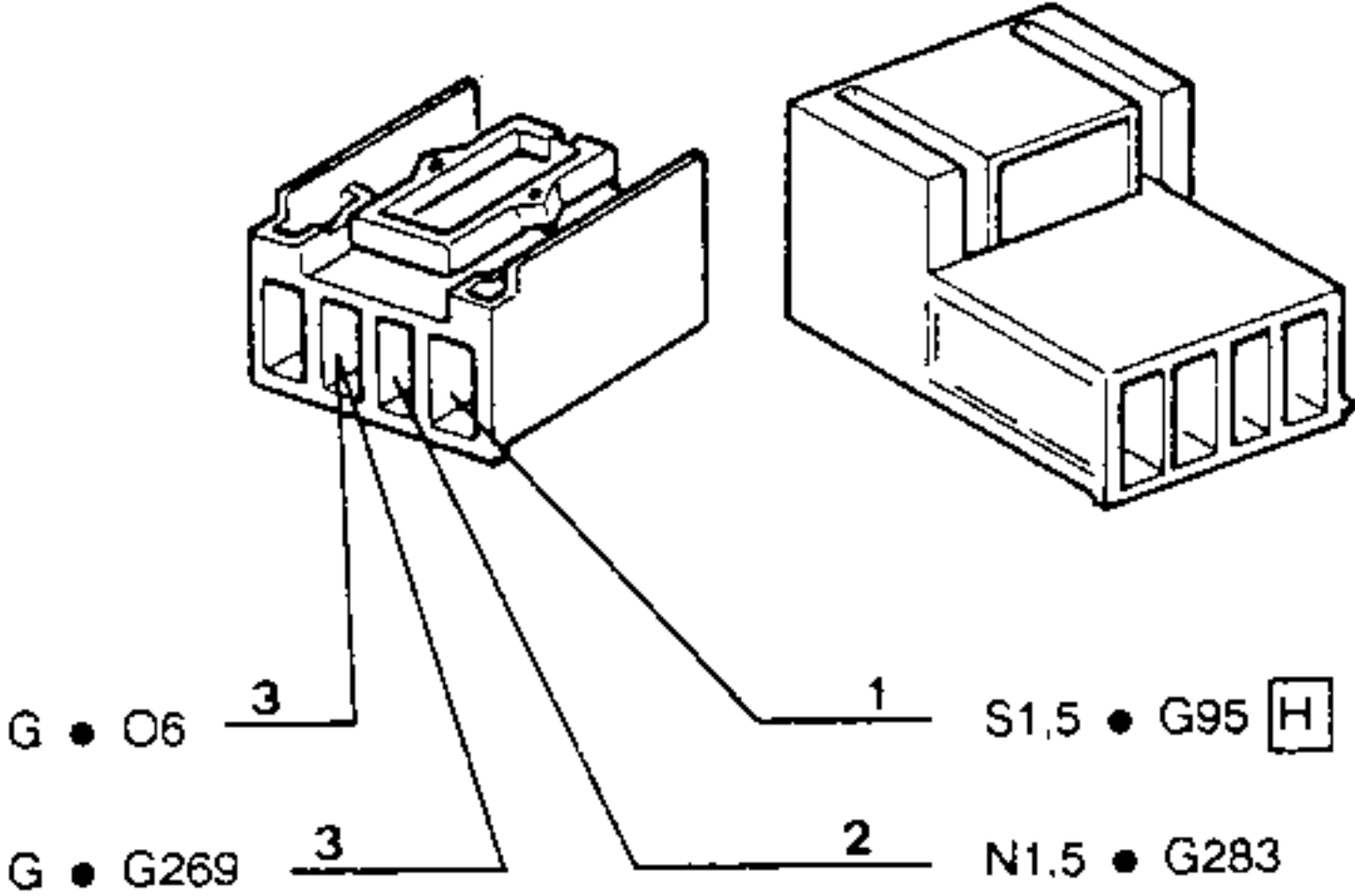
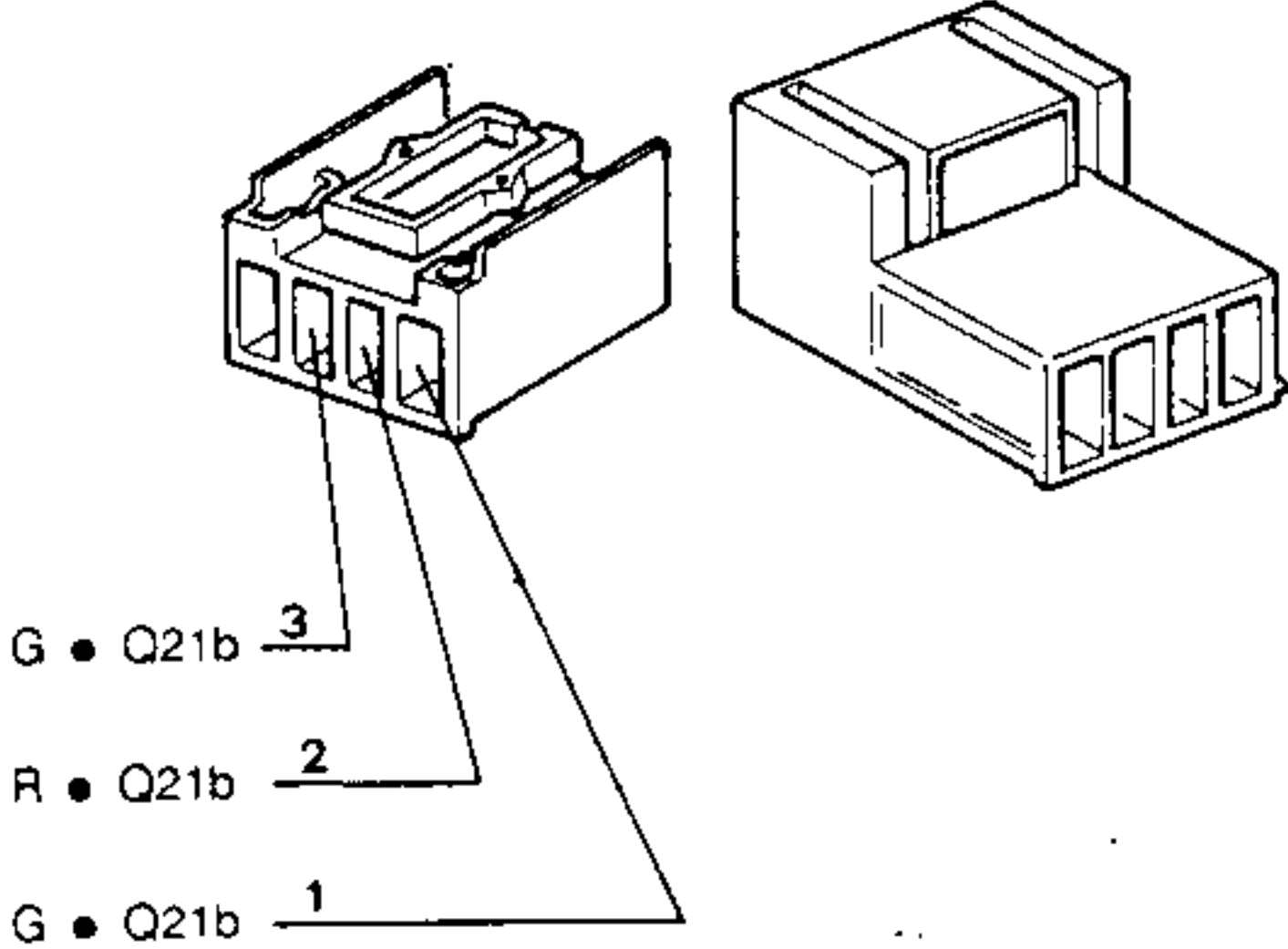
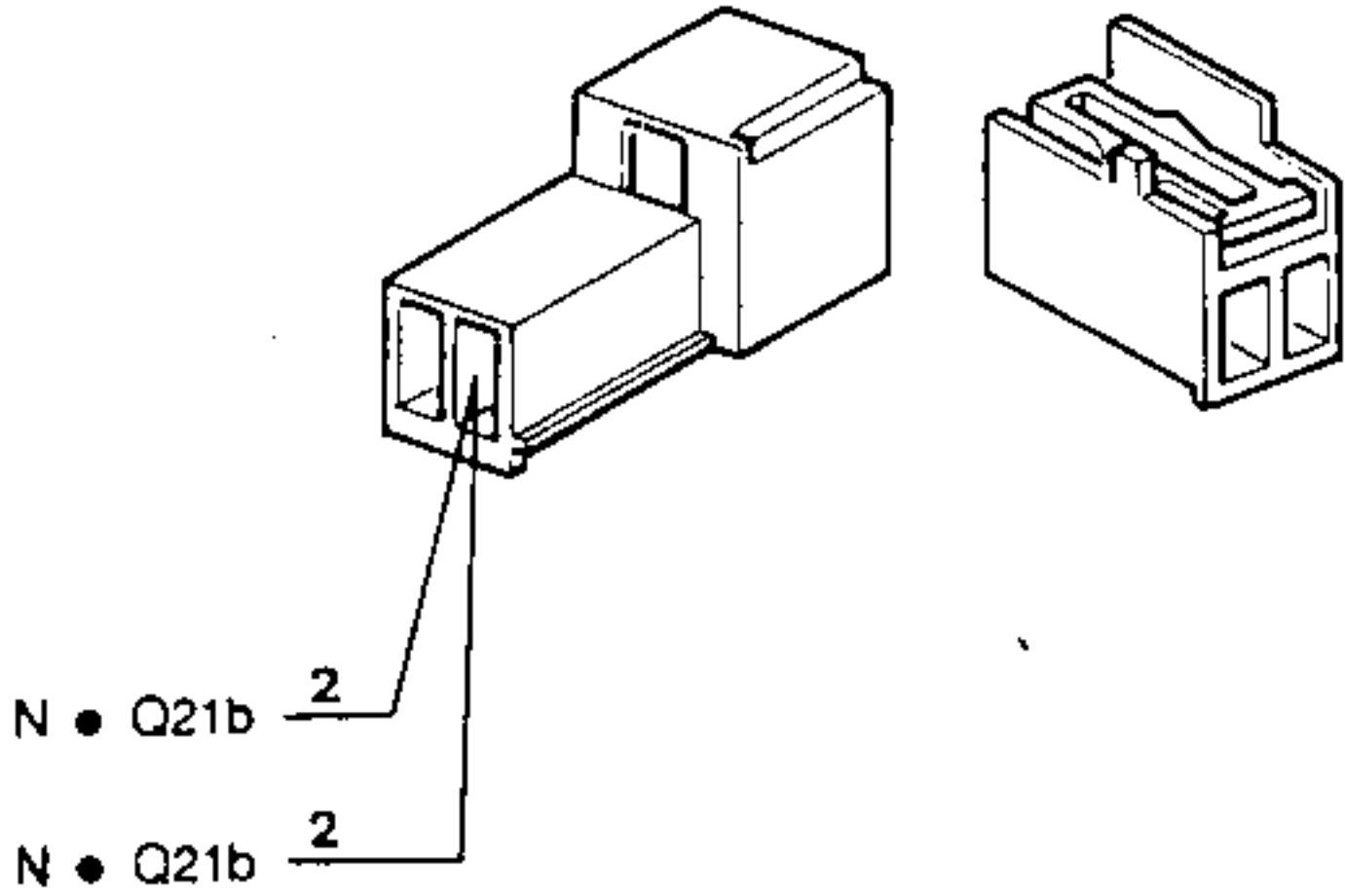
Connectors

<p>Battery (+)</p>	<p>A1</p>	<p>Battery (-)</p>	<p>A1</p>
 <p>R10 • G56</p> <p>33.90.001</p>		 <p>N10 • G143</p> <p>N20 • To engine</p> <p>33.90.002</p>	
<p>Ignition switch</p>	<p>B1</p>	<p>Fog lamp control switch</p>	<p>B10</p>
 <p>S • G95 [H] 1</p> <p>R2,5 • G56 3</p> <p>33.90.028</p>		 <p>G • B10 8</p> <p>G • G95 [D] 8</p> <p>5 G • N41</p> <p>5 G • B10</p> <p>33.90.008</p>	
<p>Turn signal switch unit</p>	<p>B68 A</p>	<p>Turn signal switch unit</p>	<p>B68 D</p>
 <p>R2,5 • G56 2</p> <p>33.90.027</p>		 <p>G1,5 • G95 [H] 3</p> <p>33.90.027</p>	

# ELECTRICAL SYSTEM

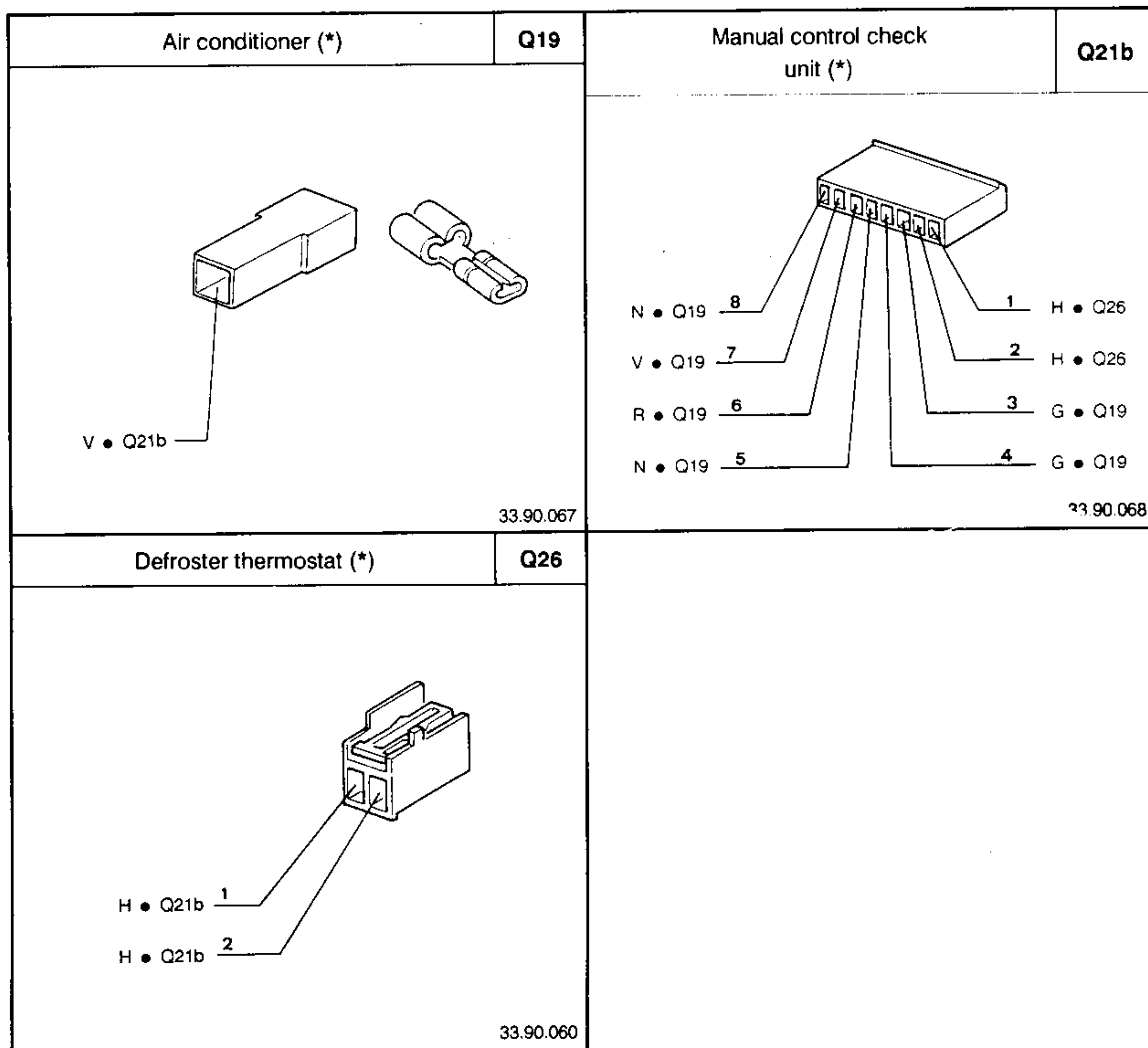
<p><b>Branch terminal board</b></p> <p style="text-align: right;"><b>G56</b></p>  <p style="text-align: right;">33.90.011</p>	<p><b>Central fusebox (+)</b></p> <p style="text-align: right;"><b>G95</b></p>  <p style="text-align: right;">33.90.006</p>
<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 D</b></p>  <p style="text-align: right;">33.90.004</p>	<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 G</b></p>  <p style="text-align: right;">33.90.005</p>
<p><b>Central fusebox</b></p> <p style="text-align: right;"><b>G95 H</b></p>  <p style="text-align: right;">33.90.004</p>	<p><b>Central service compartment earth</b></p> <p style="text-align: right;"><b>G143</b></p>  <p style="text-align: right;">33.90.001</p>

ELECTRICAL SYSTEM

<p>Glove compartment lamp connection</p>	<p>G269</p>	<p>Earth on left service compartment</p>	<p>G283</p>
 <p>G • N41 1</p> <p>G • Q19 1</p> <p>33.90.013</p>		 <p>N1 • O4</p> <p>N1,5 • Q19</p> <p>N1,5 • G23</p> <p>N1,5 • G95 (G)</p> <p>33.90.001</p>	
<p>Control unit lights on signal</p>	<p>N41</p>	<p>Air conditioner</p>	<p>Q19</p>
 <p>2 G • G269</p> <p>2 G • B10</p> <p>33.90.022</p>		 <p>G • O6 3</p> <p>G • G269 3</p> <p>1 S1,5 • G95 (H)</p> <p>2 N1,5 • G283</p> <p>33.90.018</p>	
<p>Air conditioner (*)</p>	<p>Q19</p>	<p>Air conditioner (*)</p>	<p>Q19</p>
 <p>G • Q21b 3</p> <p>R • Q21b 2</p> <p>G • Q21b 1</p> <p>33.90.018</p>		 <p>N • Q21b 2</p> <p>N • Q21b 2</p> <p>33.90.019</p>	

(\*) Optional

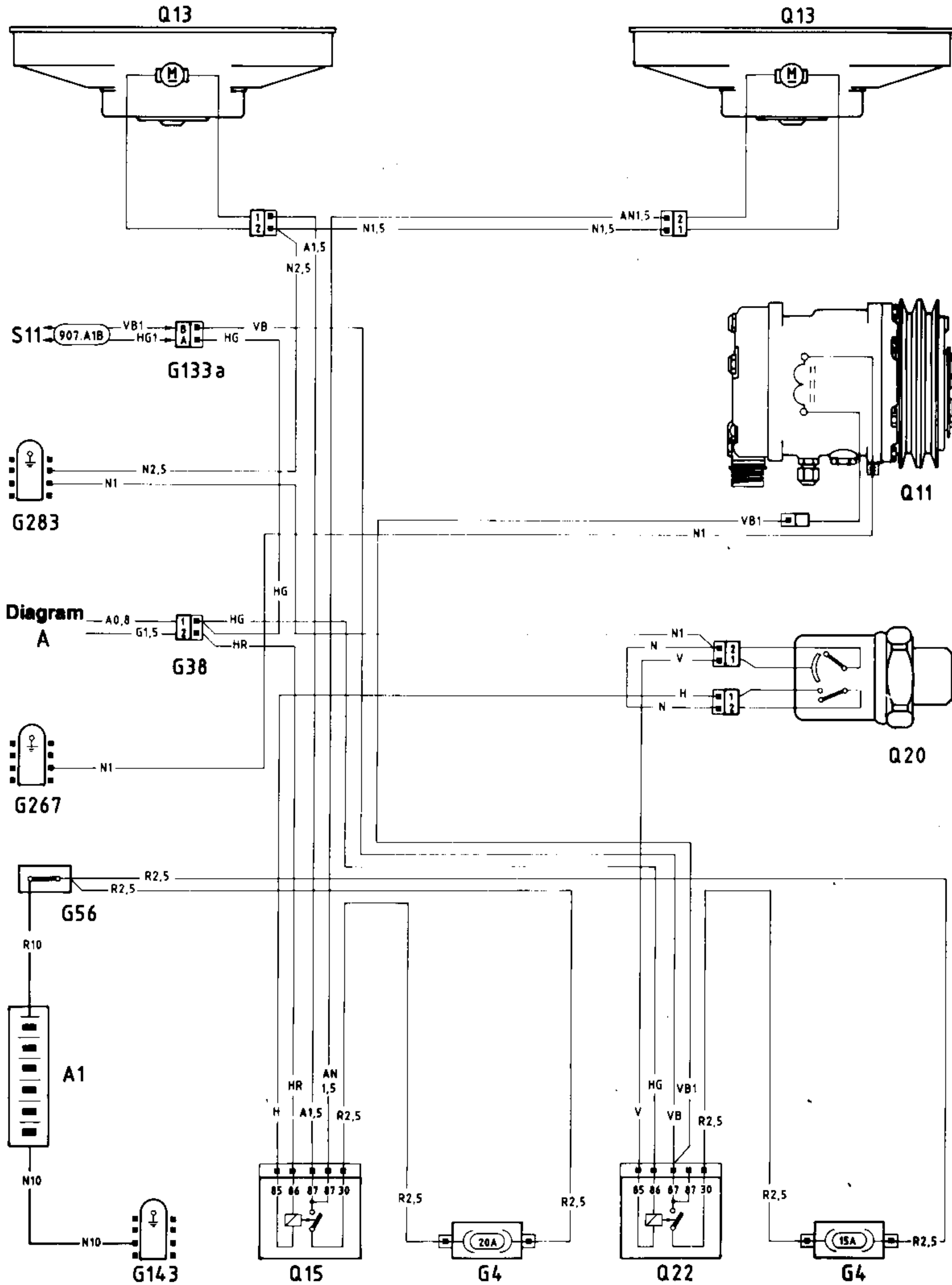
# ELECTRICAL SYSTEM



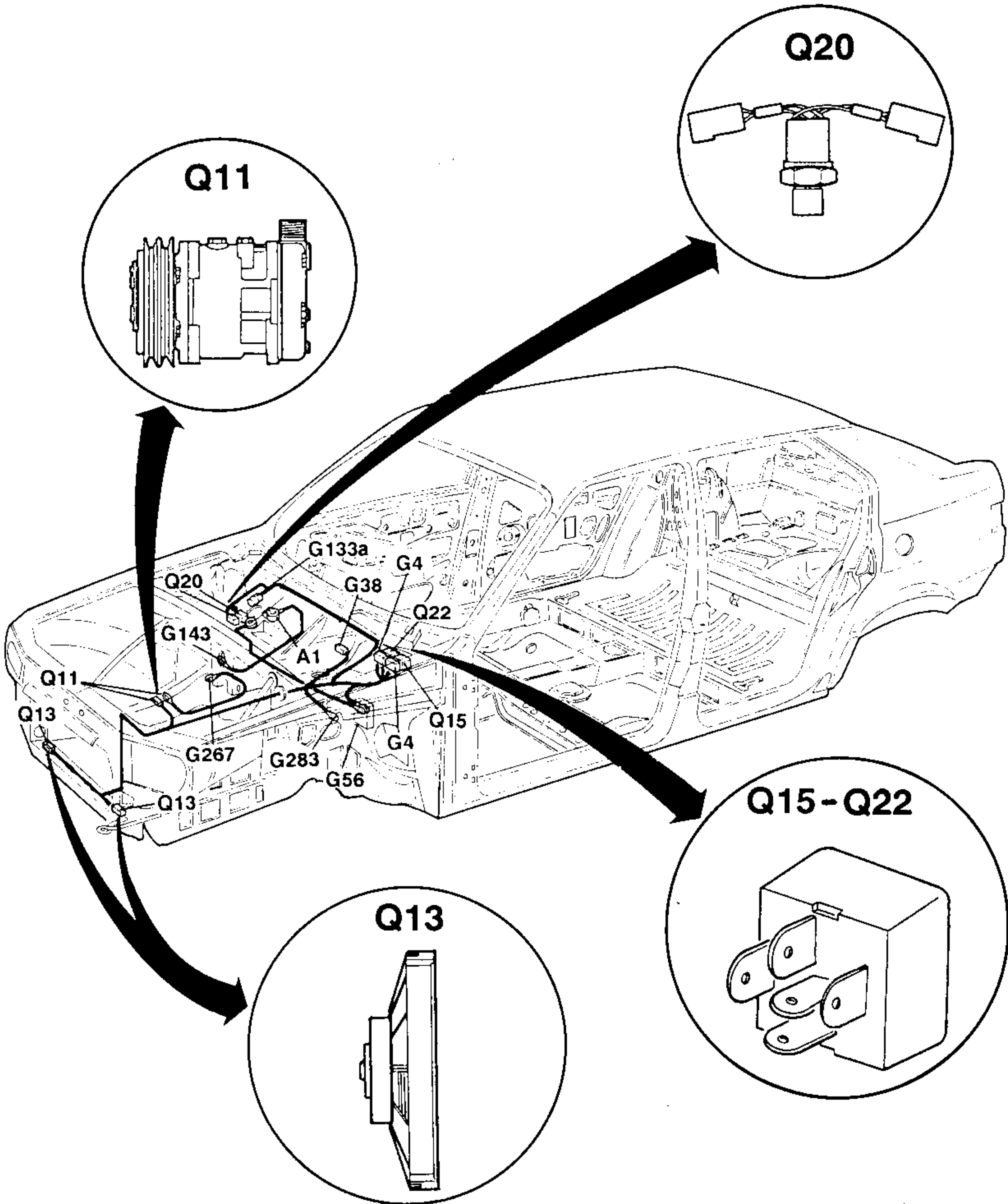
(\*) Optional

AIR CONDITIONER (Diagram B)

Wiring diagram



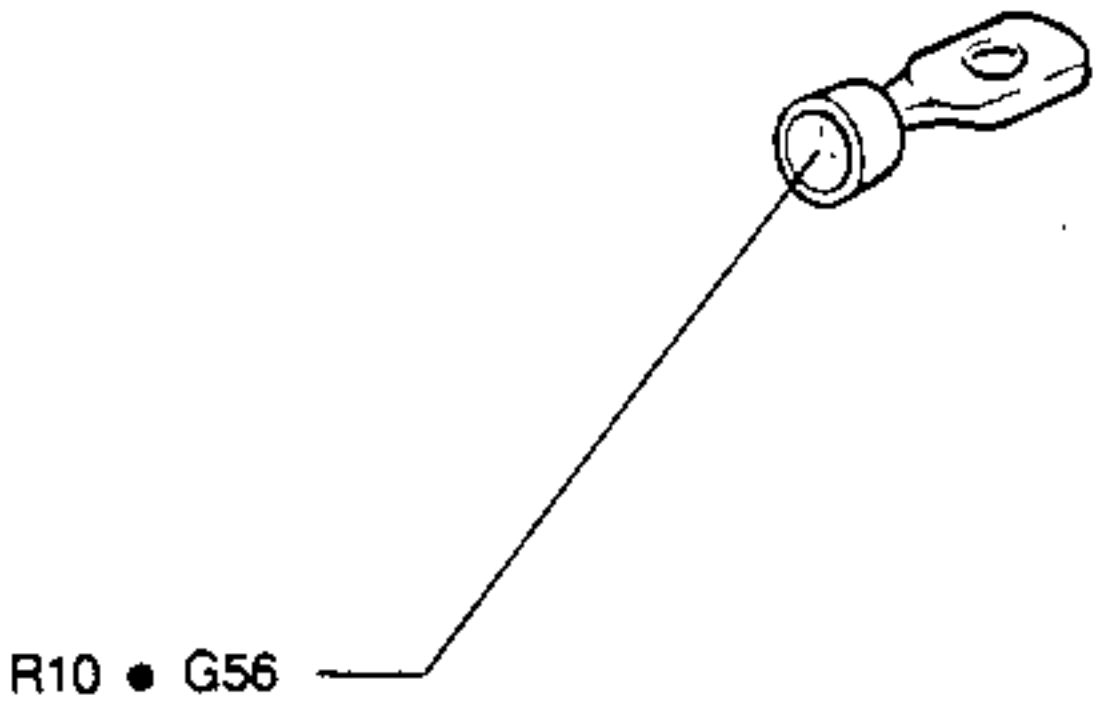
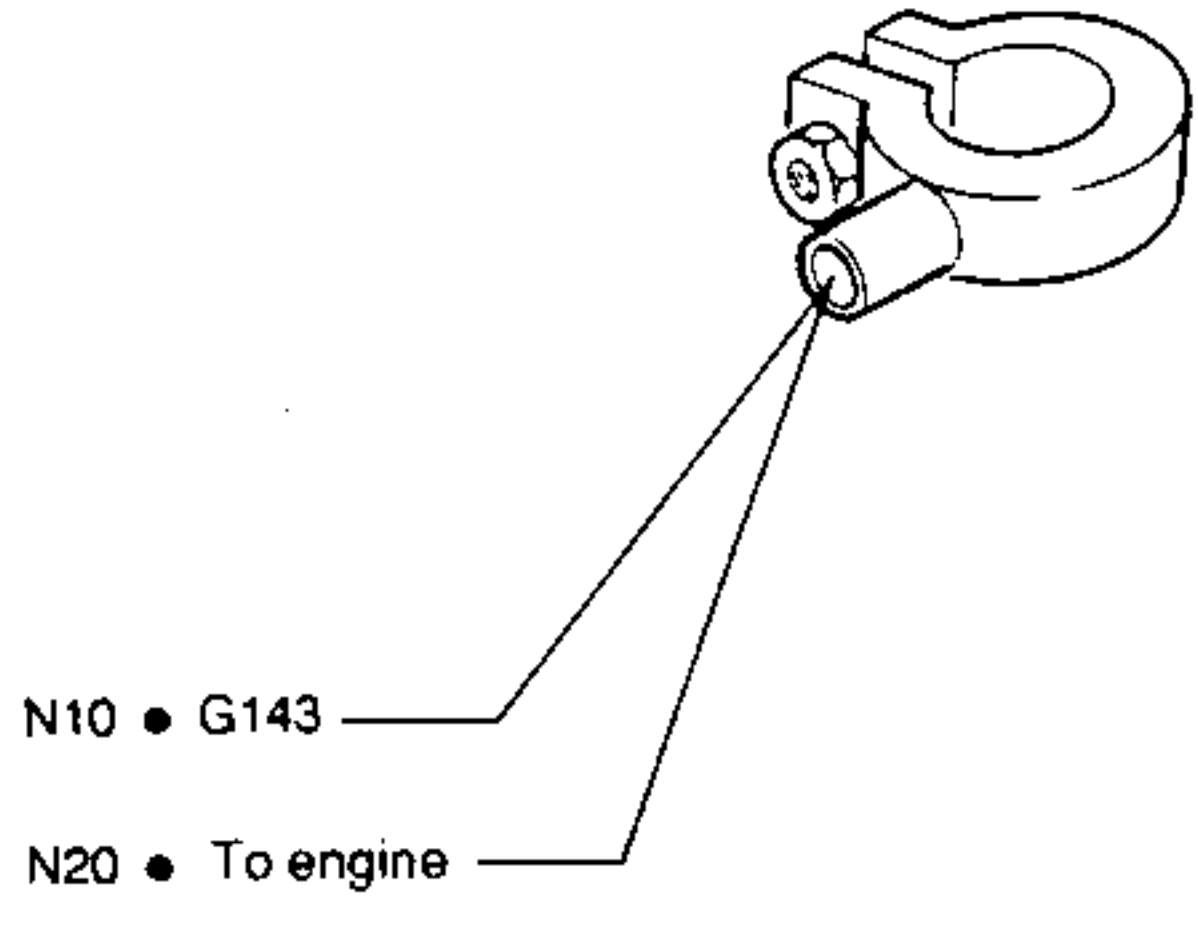
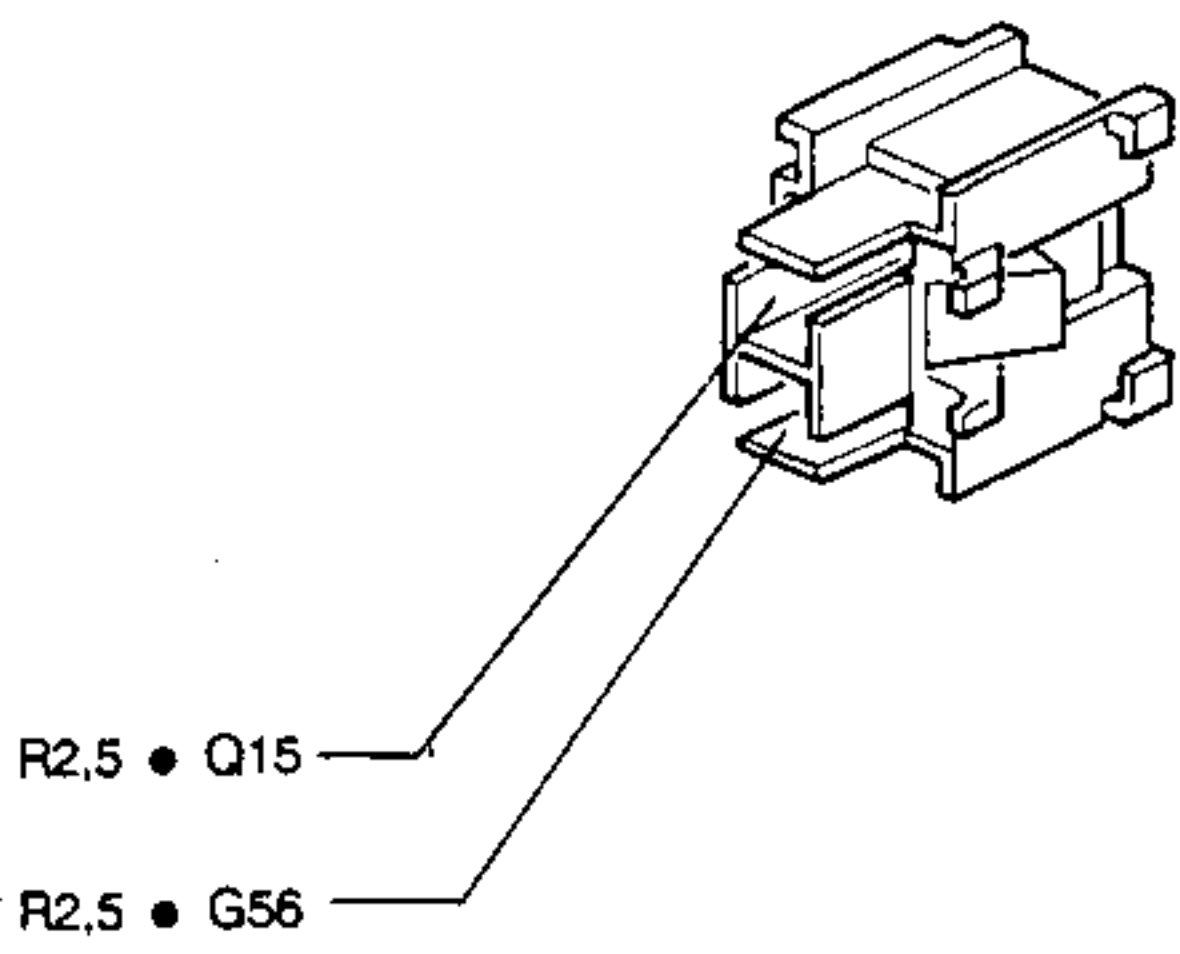
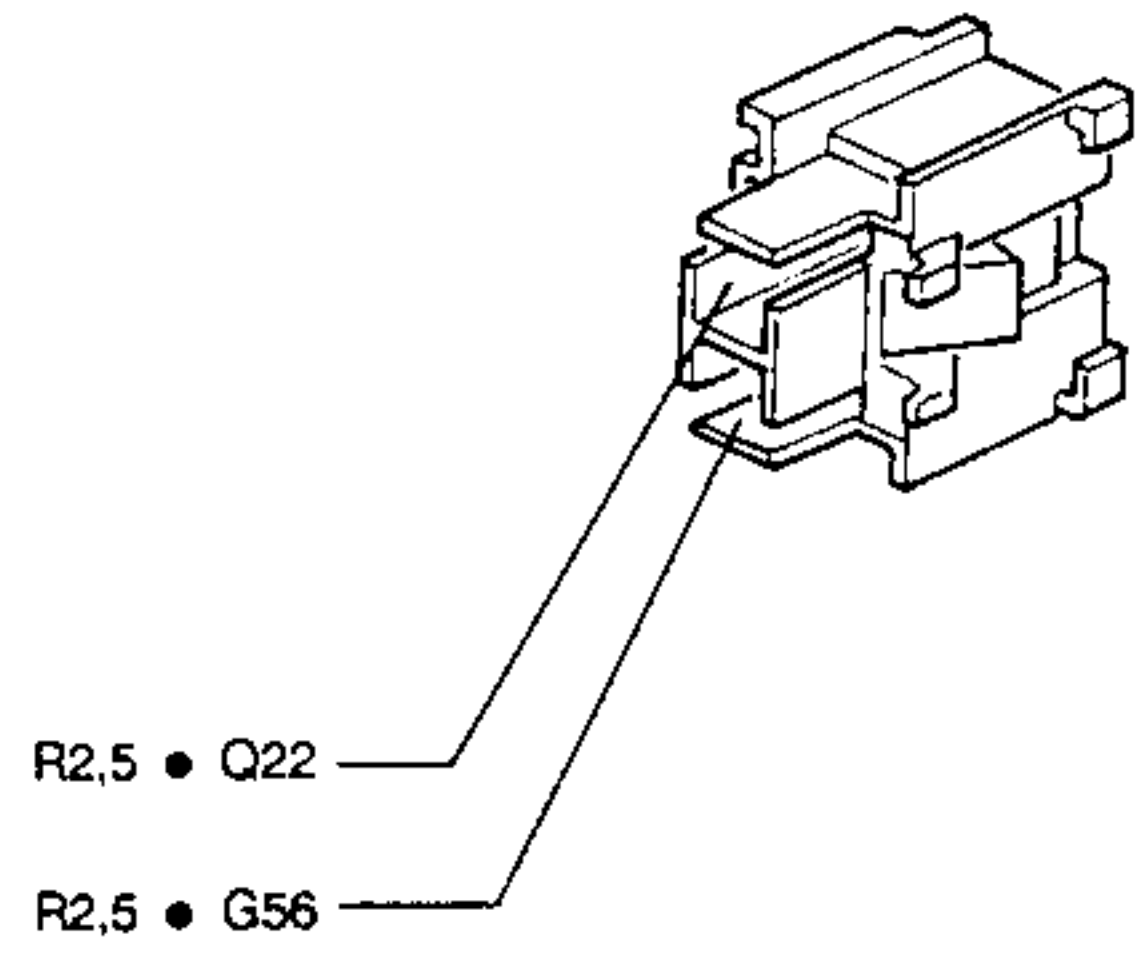
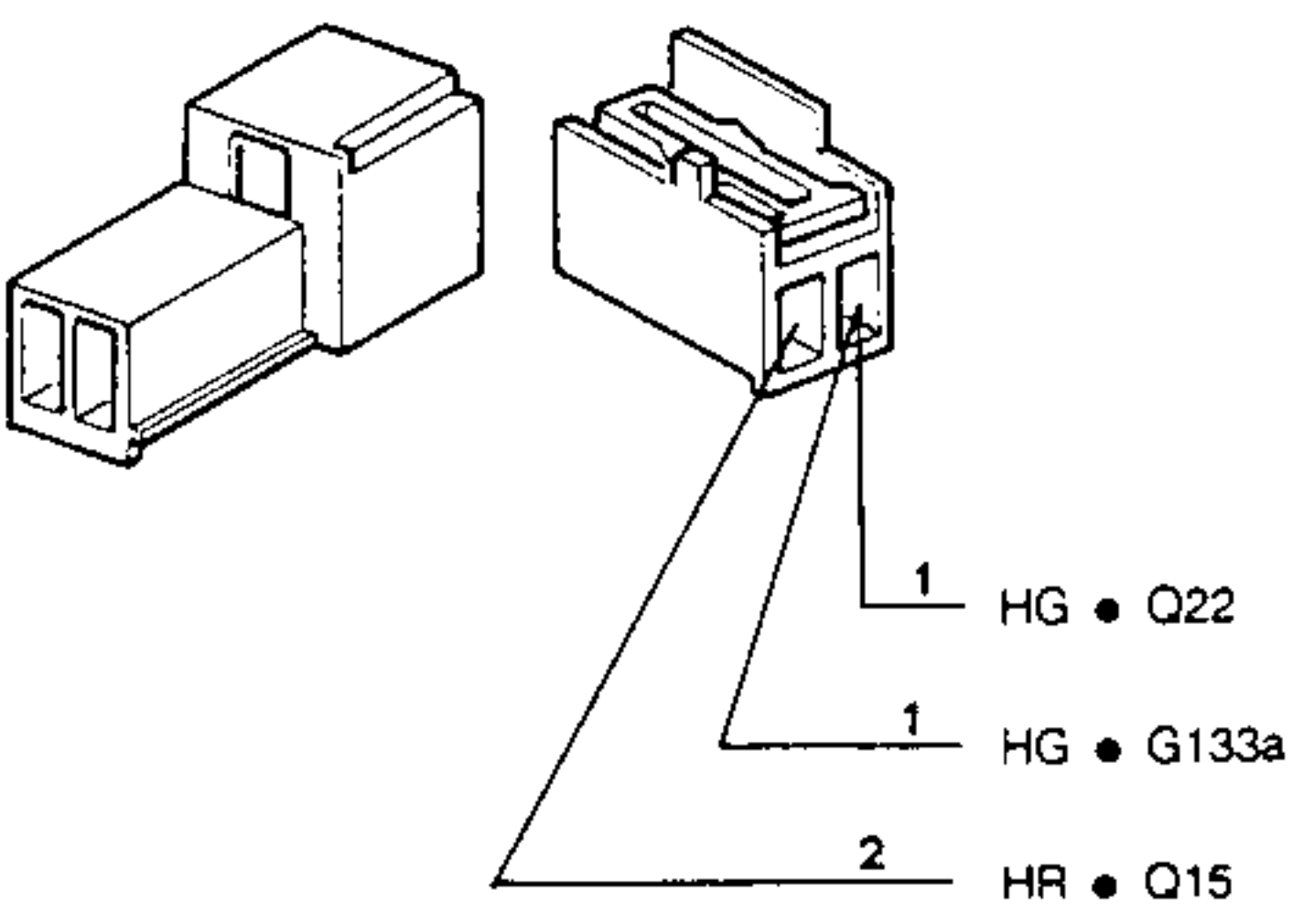
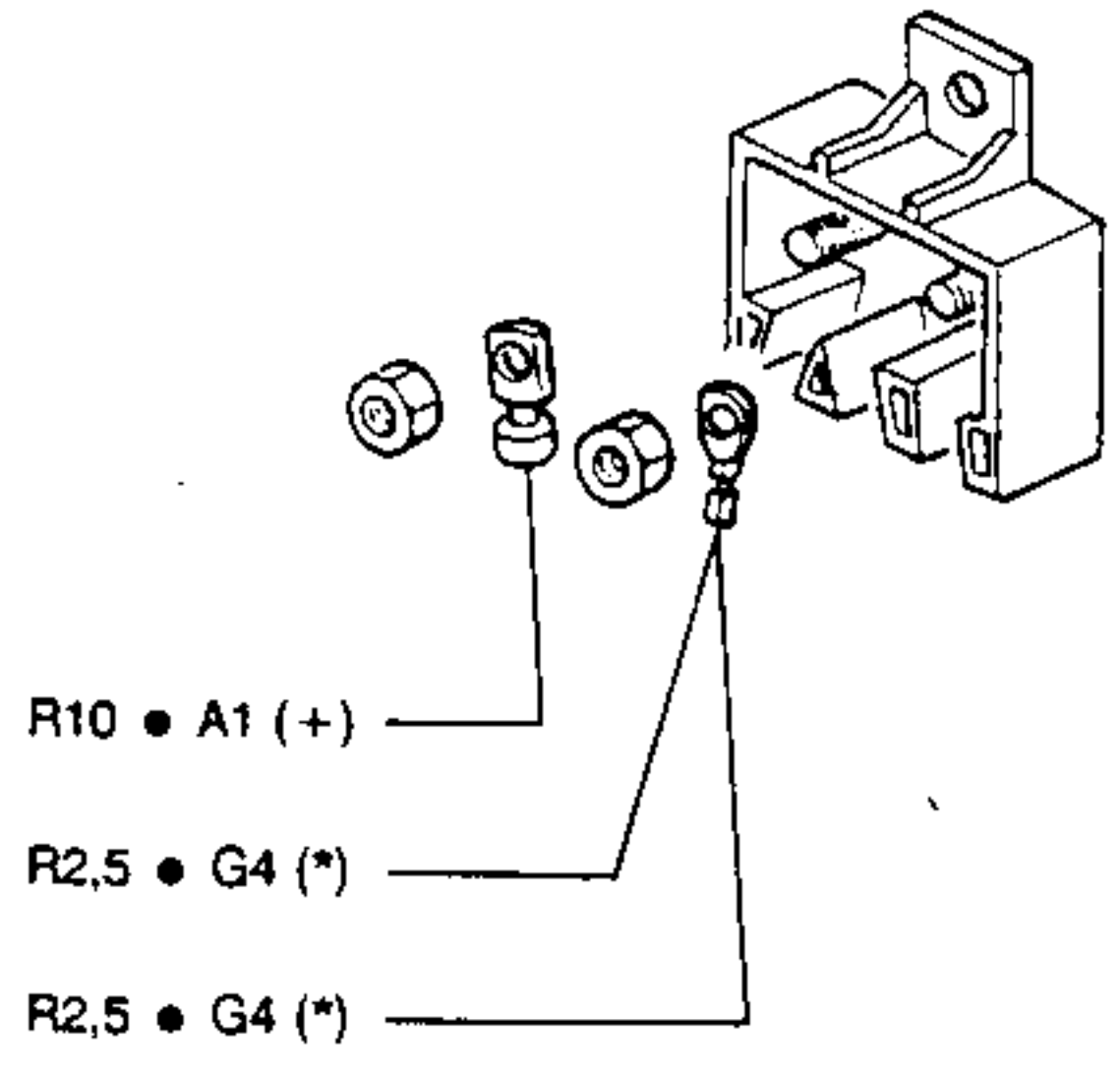
Wiring





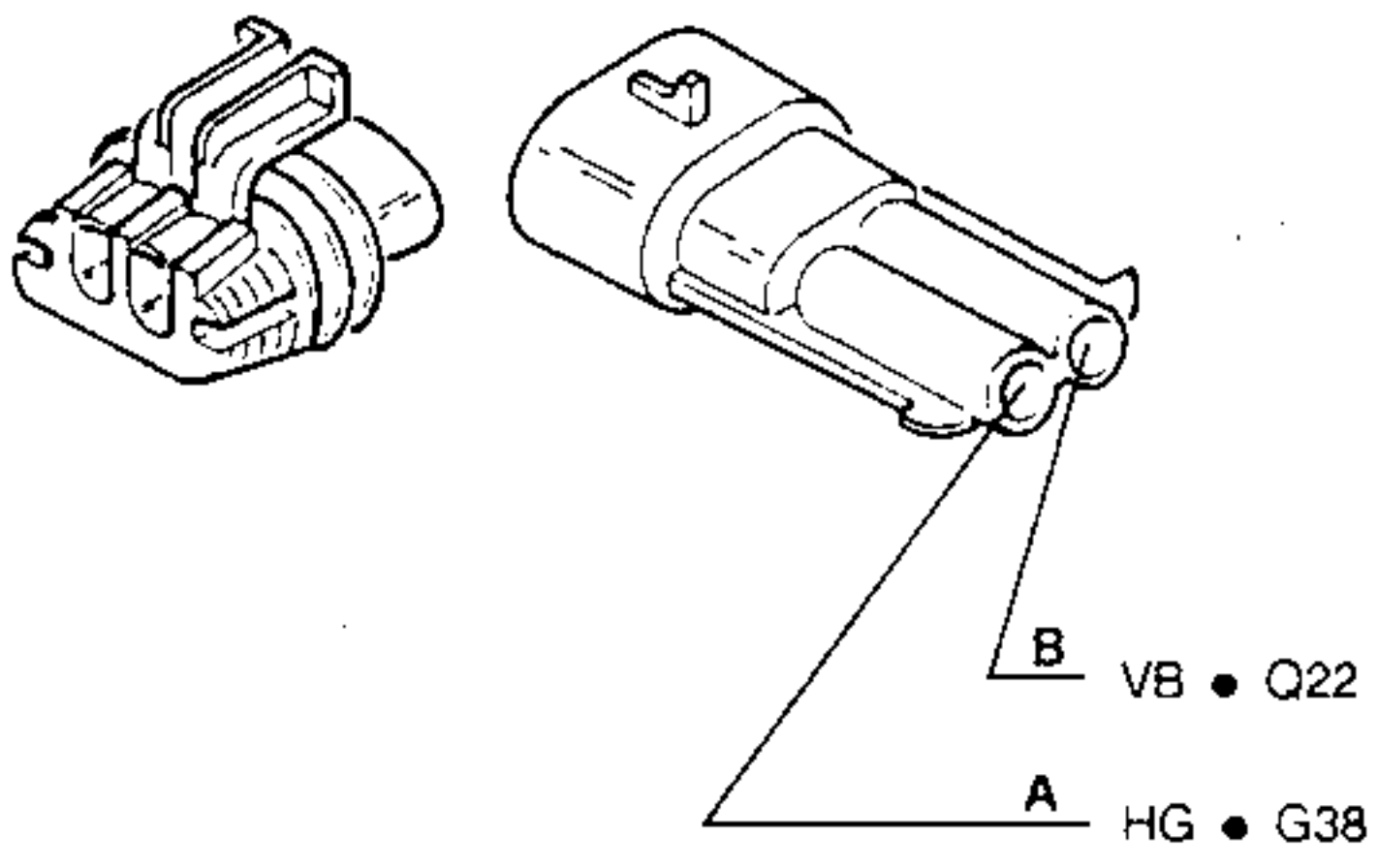
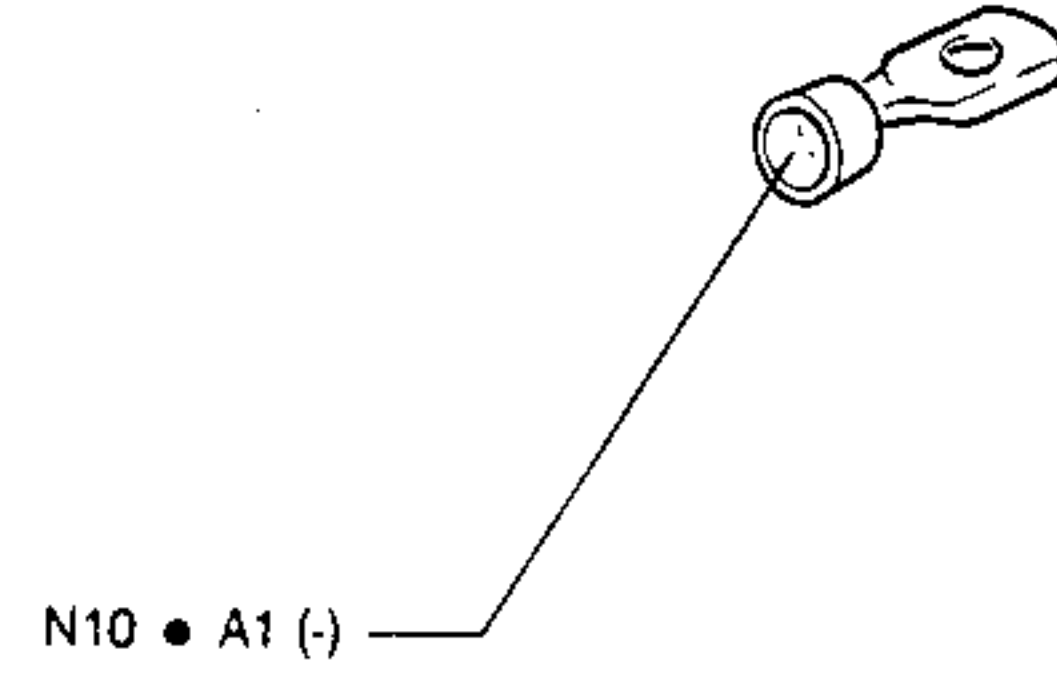
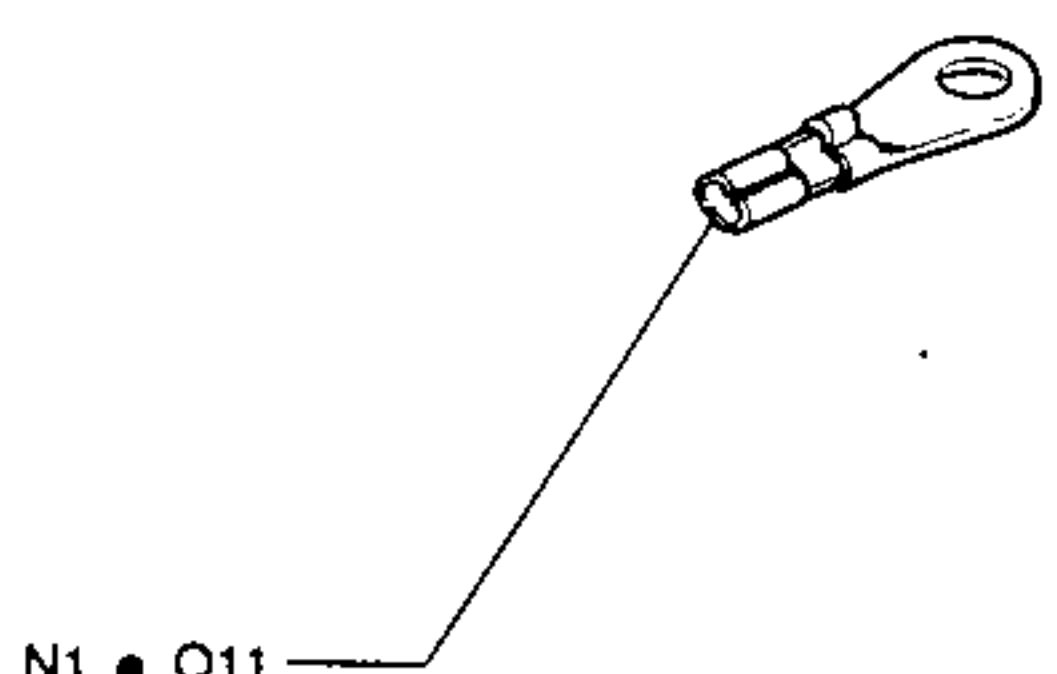
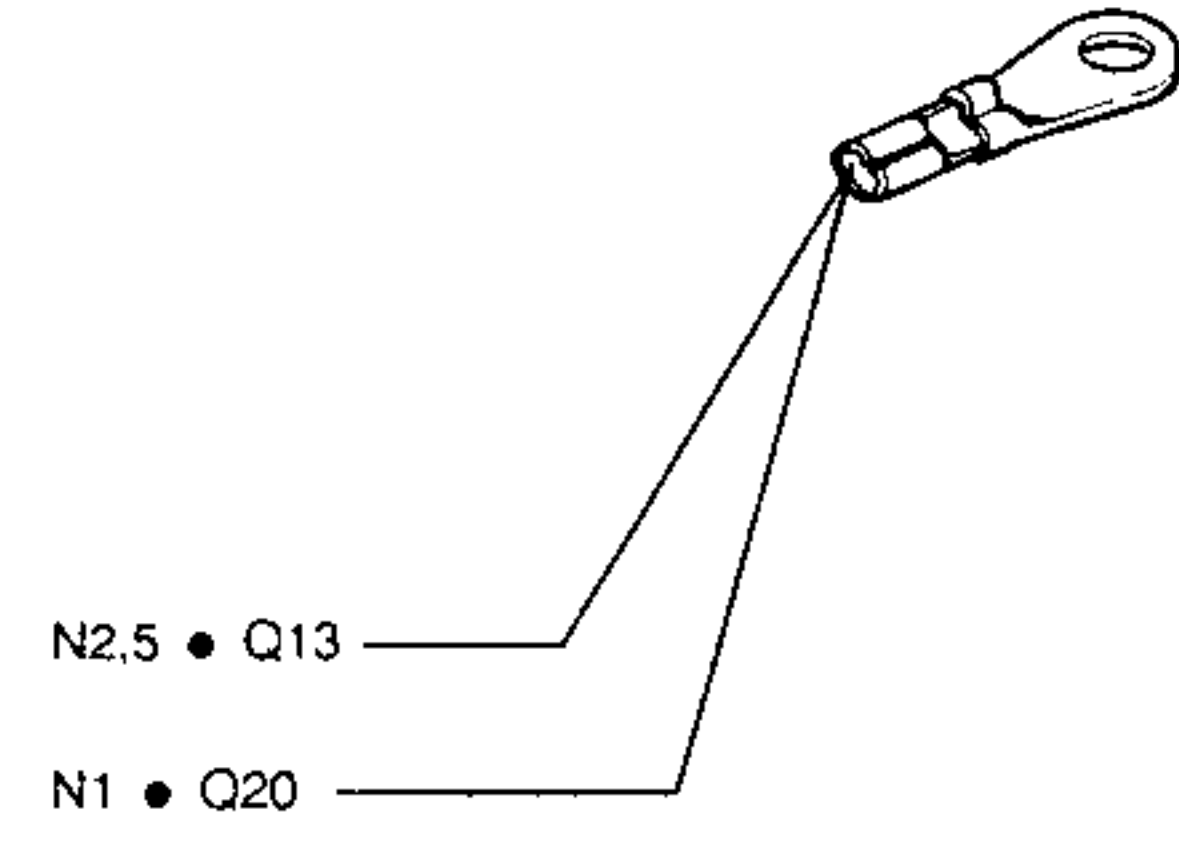
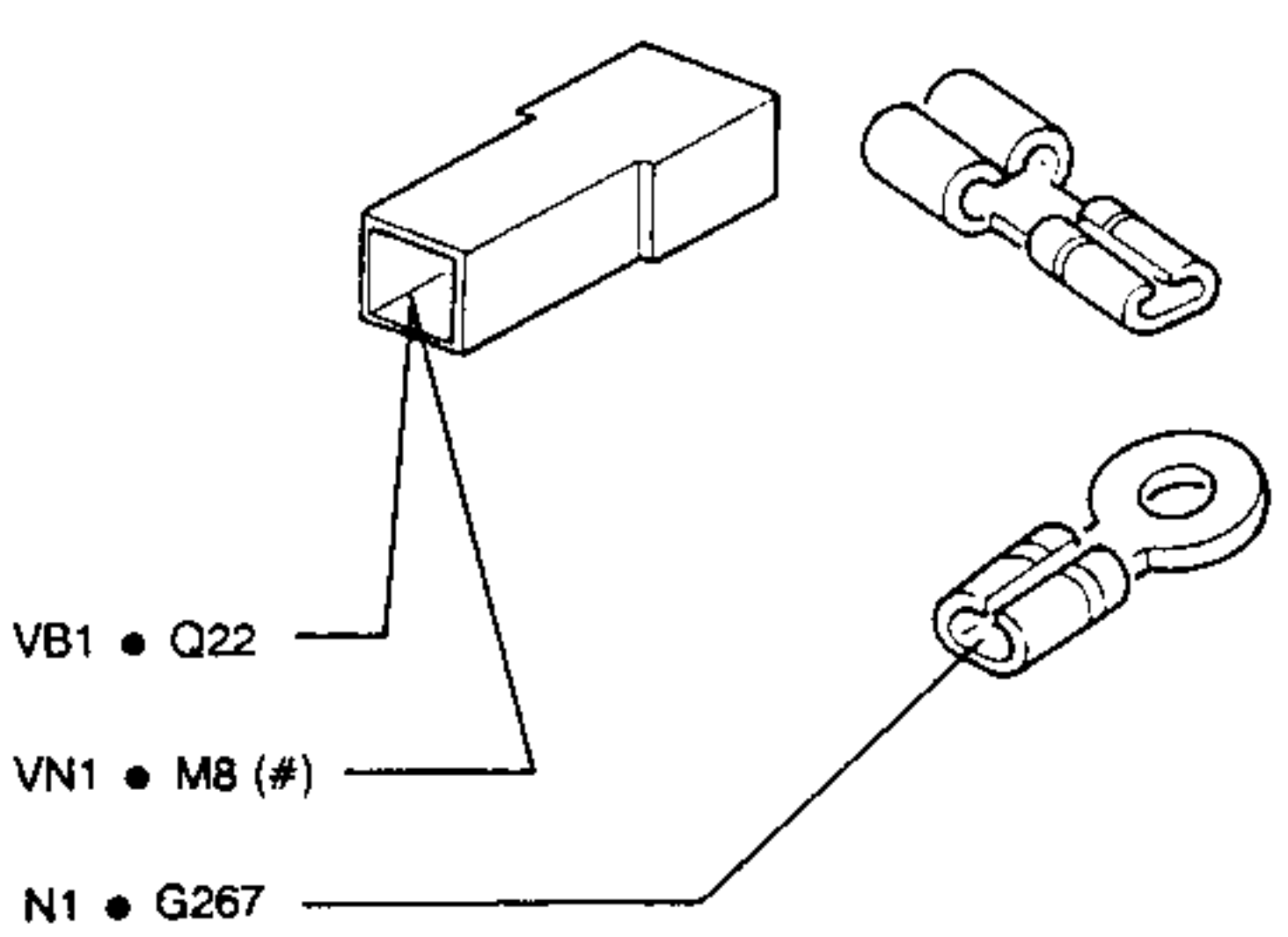
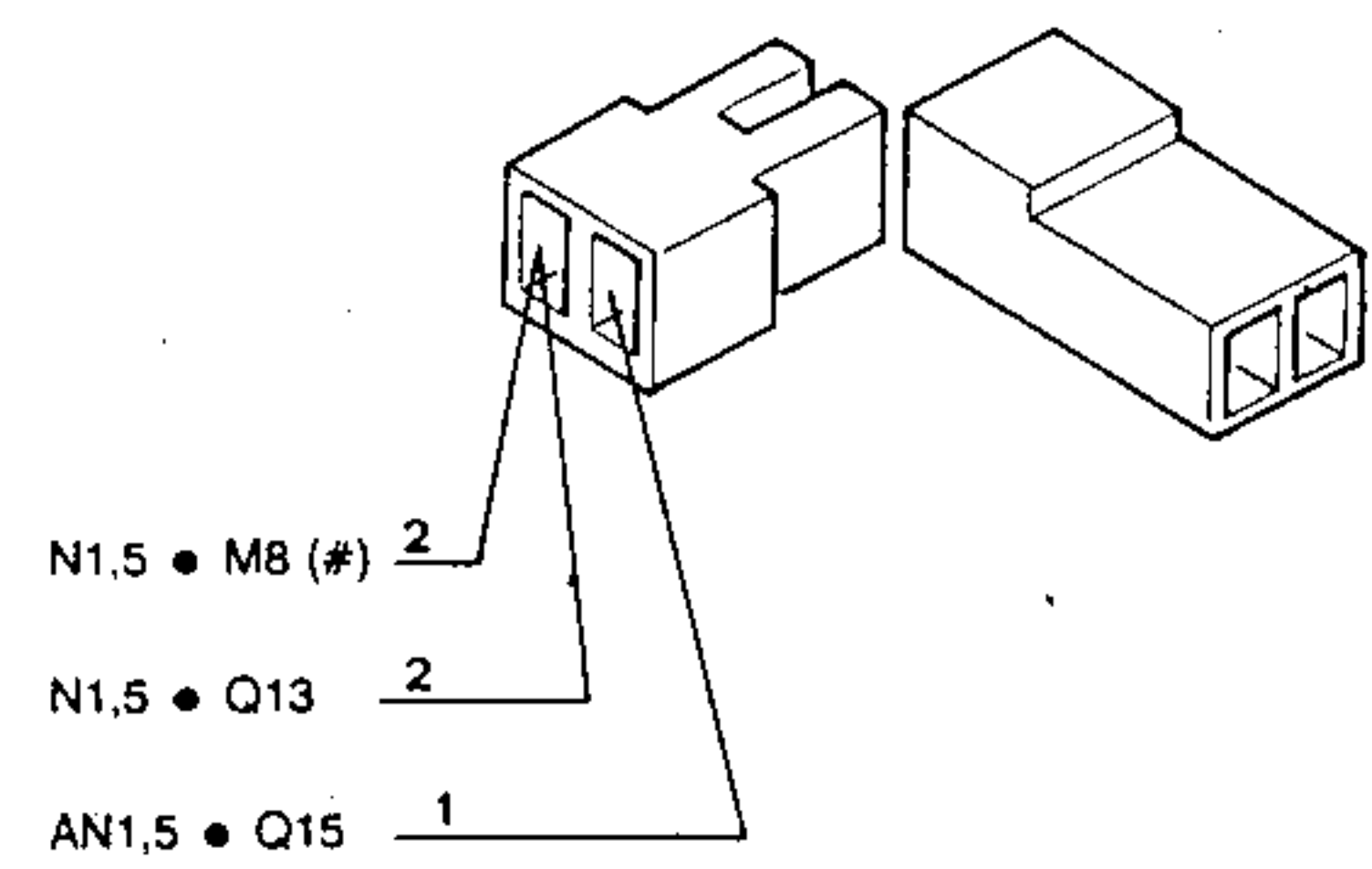
# ELECTRICAL SYSTEM

## Connectors

Battery (+)	A1	Battery (-)	A1
 <p>R10 ● G56</p>	33.90.001	 <p>N10 ● G143 N20 ● To engine</p>	33.90.002
Free fuse (*)	G4	Free fuse (*)	G4
 <p>R2,5 ● Q15 R2,5 ● G56</p>	33.90.046	 <p>R2,5 ● Q22 R2,5 ● G56</p>	33.90.046
Connector for air conditioner wiring (*)	G38	Branch terminal board	G56
 <p>1 HG ● Q22 1 HG ● G133a 2 HR ● Q15</p>	33.90.019	 <p>R10 ● A1 (+) R2,5 ● G4 (*) R2,5 ● G4 (*)</p>	33.90.076

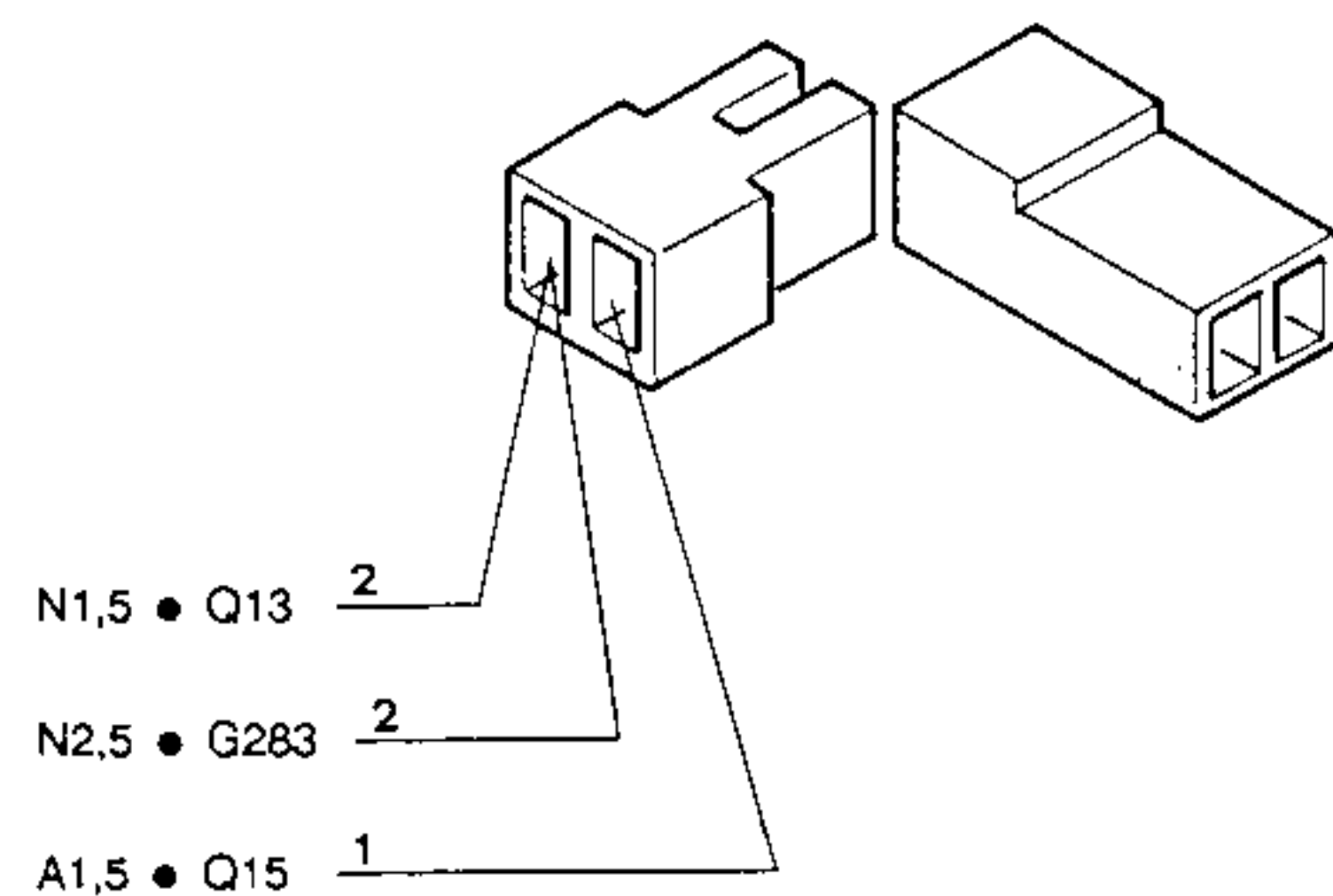
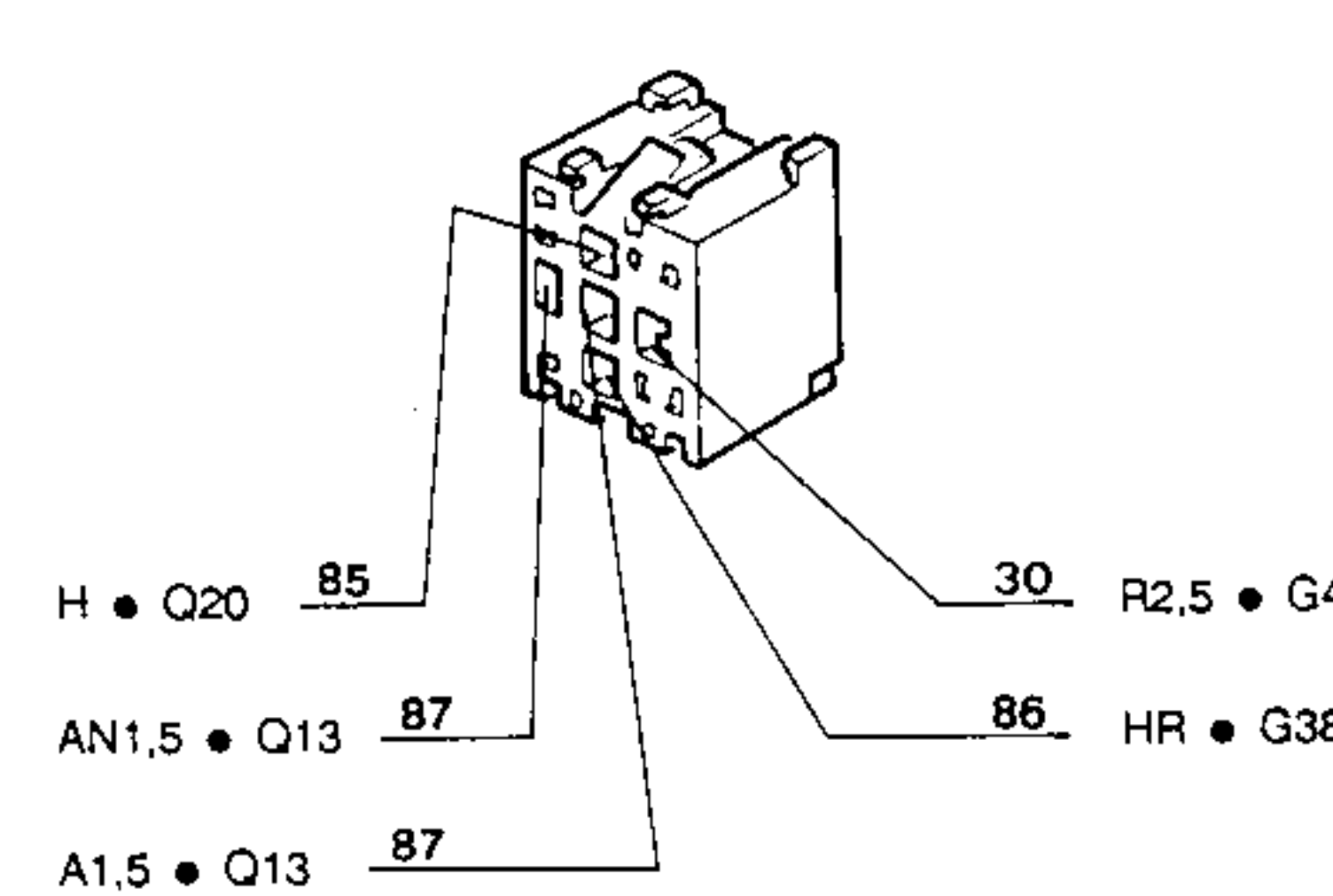
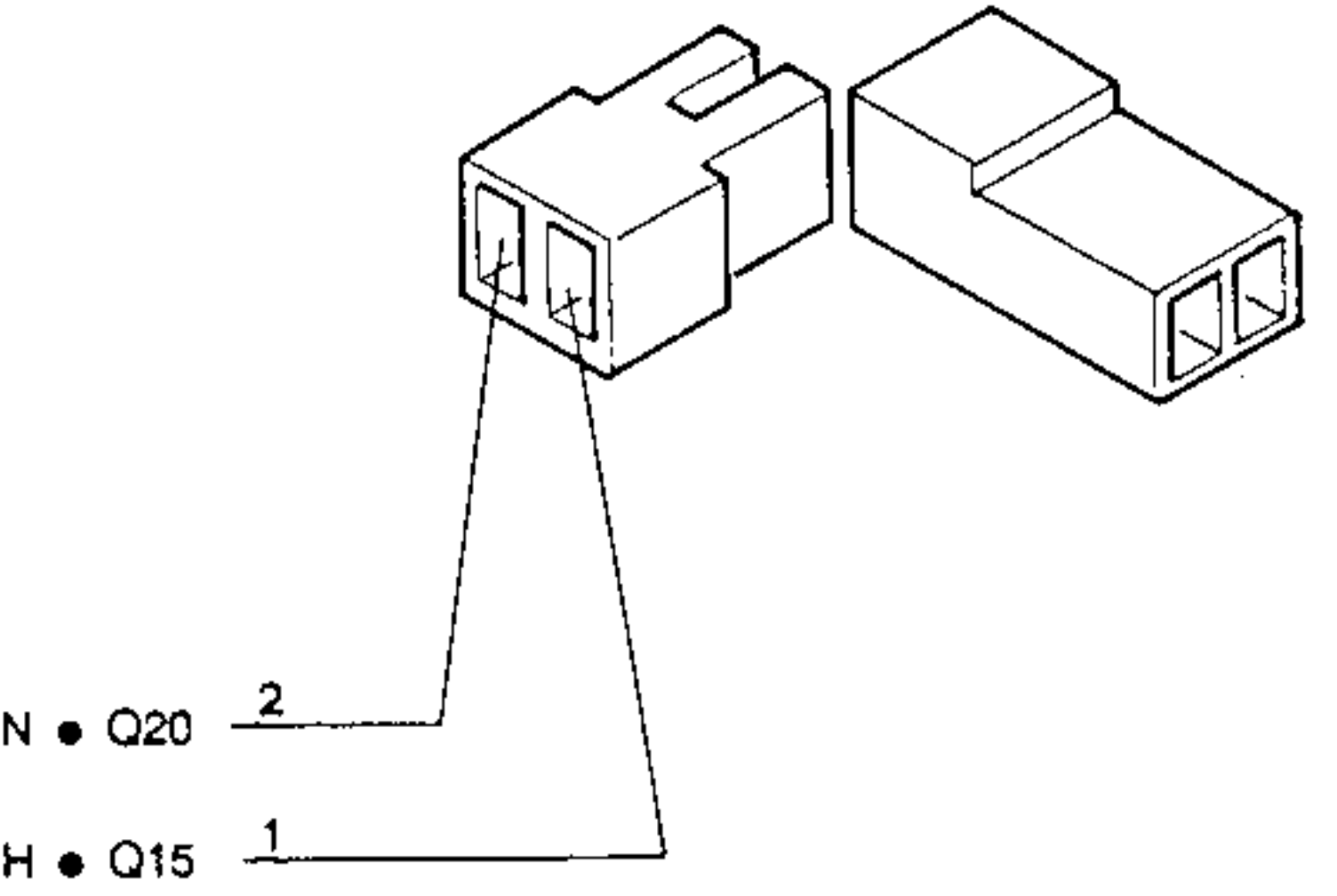
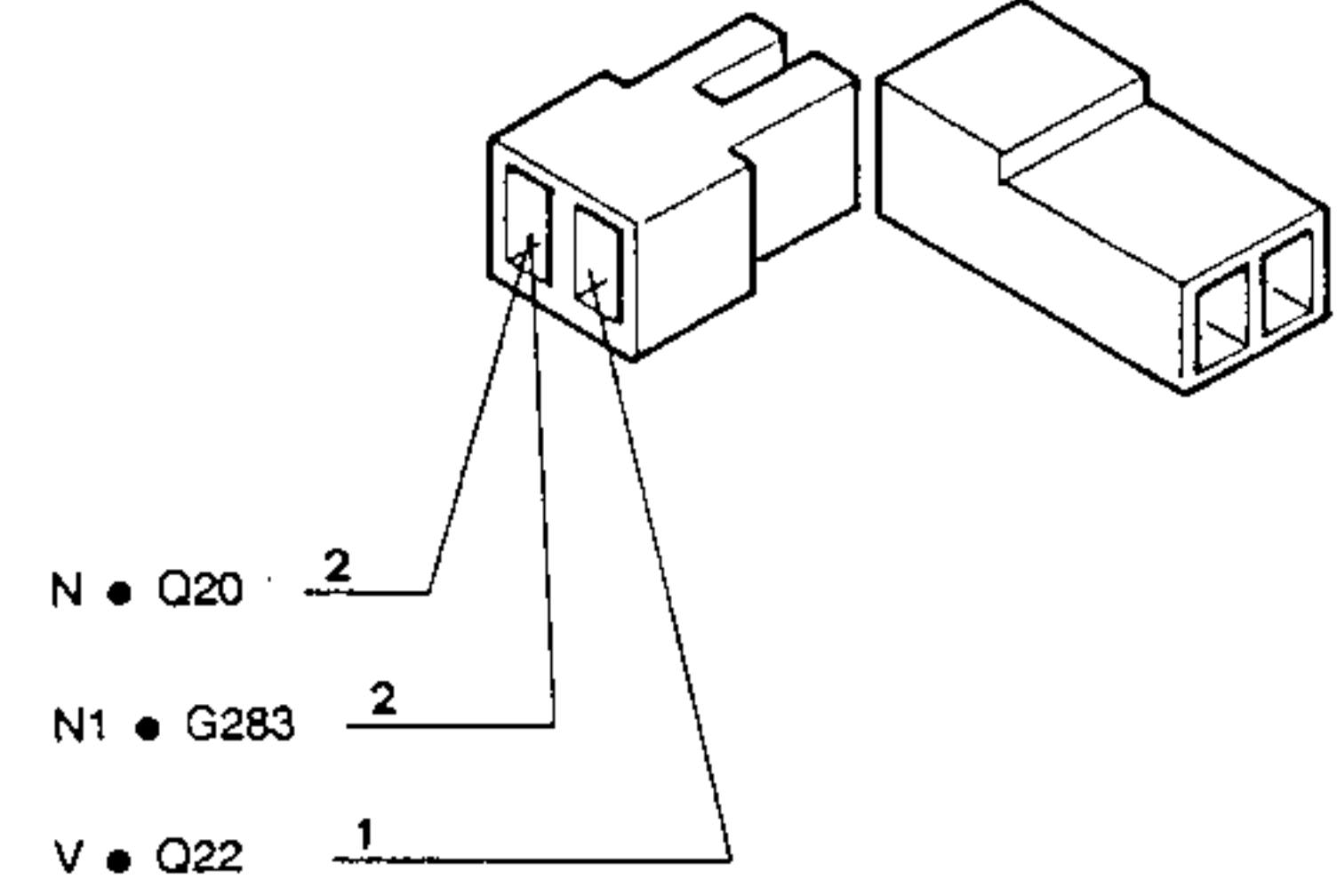
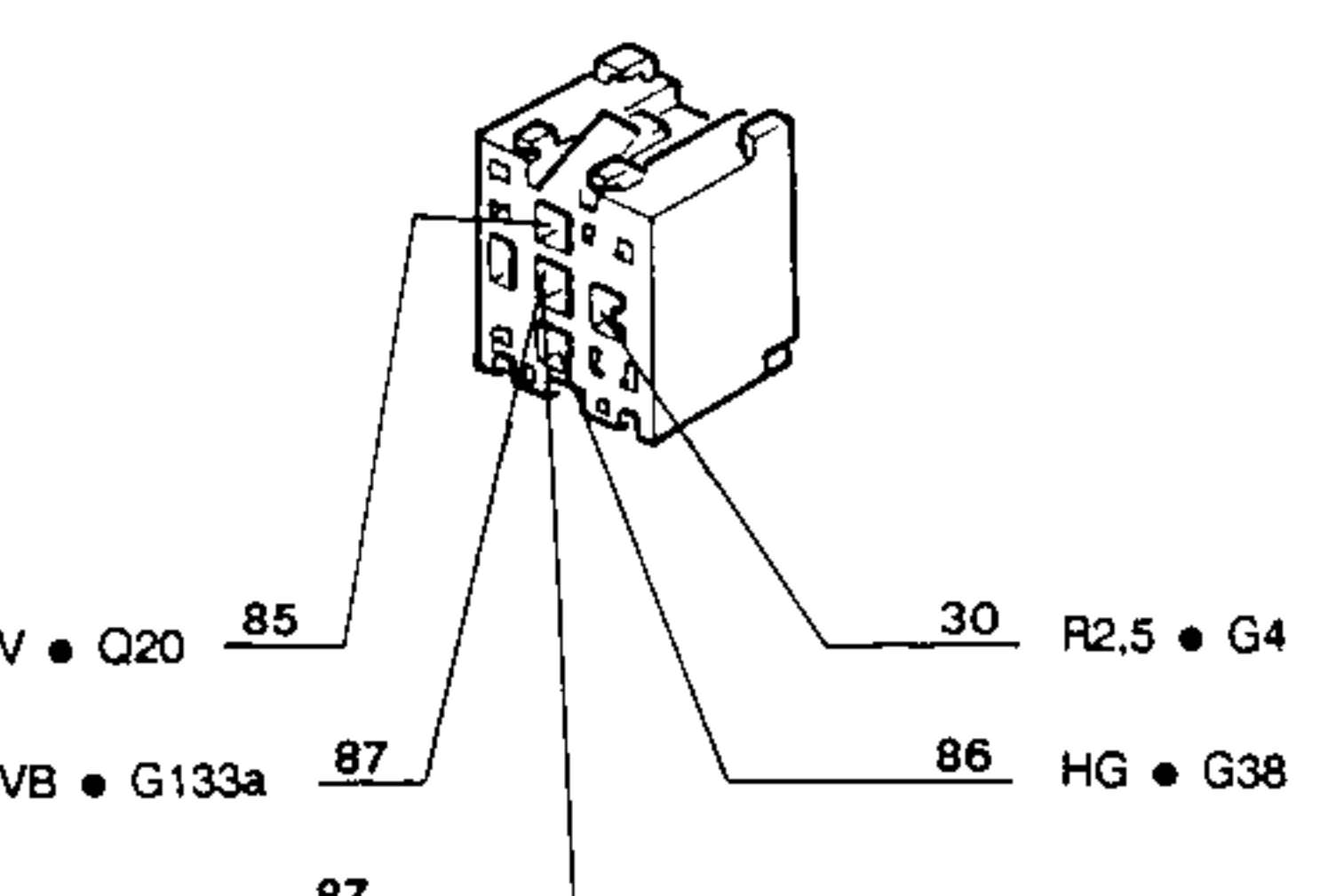
(\*) Optional

# ELECTRICAL SYSTEM

Ignition - electronic injection A wiring connection (*)	<b>G133a</b>	Central service compartment earth	<b>G143</b>
			
33.90.055		33.90.001	
Earth on cylinder block (*)	<b>G267</b>	Earth on left service compartment (*)	<b>G283</b>
			
33.90.014		33.90.014	
Compressor electromagnetic coupling (*)	<b>Q11</b>	Supplementary conditioner fan (right) (*)	<b>Q13</b>
			
33.90.067 - 33.90.032		33.90.013	

(#) Not in use  
 (\*) Optional

# ELECTRICAL SYSTEM

Supplementary conditioner fan (left) (*)	<b>Q13</b>	Heater/ventilation electric fan relay (*)	<b>Q15</b>
			
33.90.013		33.90.007	
Min and max pressure switch (Trinary) (*)	<b>Q20</b>	Min and max pressure switch (Trinary) (*)	<b>Q20</b>
			
33.90.013		33.90.013	
Electromagnetic coupling control relay (*)	<b>Q22</b>		
			
33.90.007			

(\*) Optional

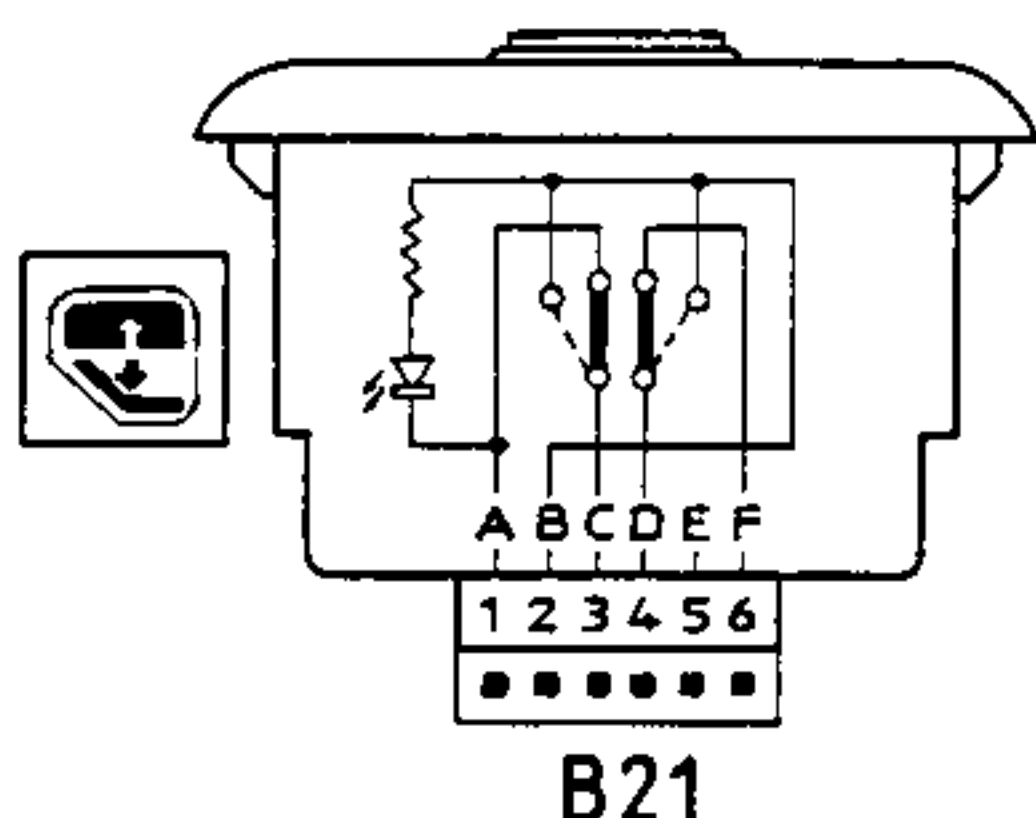
# INTRODUCTION

## IDENTIFICATION OF COMPONENTS

The wiring diagrams are set out in order to facilitate the location of the components and their relative connections.

The components (represented diagrammatically by the shape of the actual component) are aligned along the outer edges of the chart and often a symbol located next to the symbol identifies its function

Example:



Front right-hand power window control switch

Each component is identified by a code composed of a letter and one or more numbers (e.g. B1). The letter identifies the part of the circuit in accordance with the following:

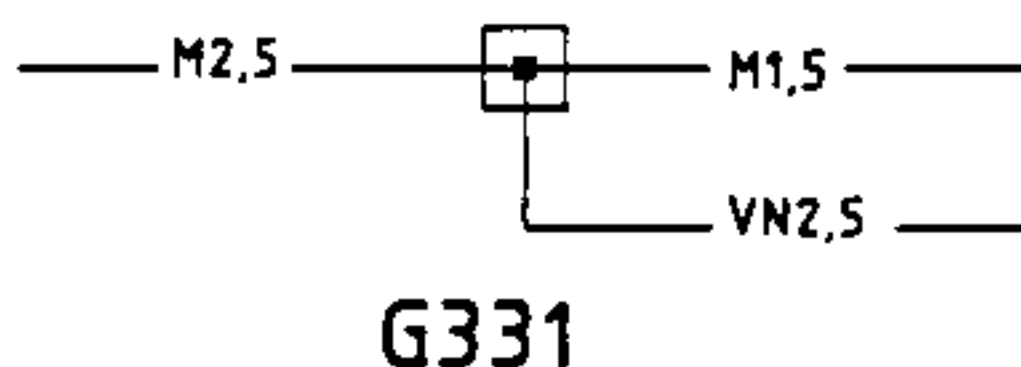
- A Starting - recharging
- B Manual electrical controls
- C On-board instruments
- D Warning lamps
- E External lights
- F Internal lights
- G Fusebox - connections - earths
- H Switches
- I Relays
- L Senders
- M Solenoids - solenoid valves

- N Electronic devices - intermit-  
tencies - timers
- O Users
- P Electric motors
- Q Heating-ventilation - air condi-  
tioning
- R Safety devices
- S Electronic injection
- T Diagnosis

The key to all the components is given in a specific group.

Unless otherwise indicated the switches are shown in the off position and the relays deactivated.

To reduce the number of connections and at the same time the characteristics of the contact, many connections (branches) have been ultrasound soldered and are shown thus:



Ultrasound-soldered connection

N.B.: The lines shown in reference to other diagrams affect the operation of the circuit in question and must be identified to avoid confusion with those under examination.

## IDENTIFYING VARIATIONS

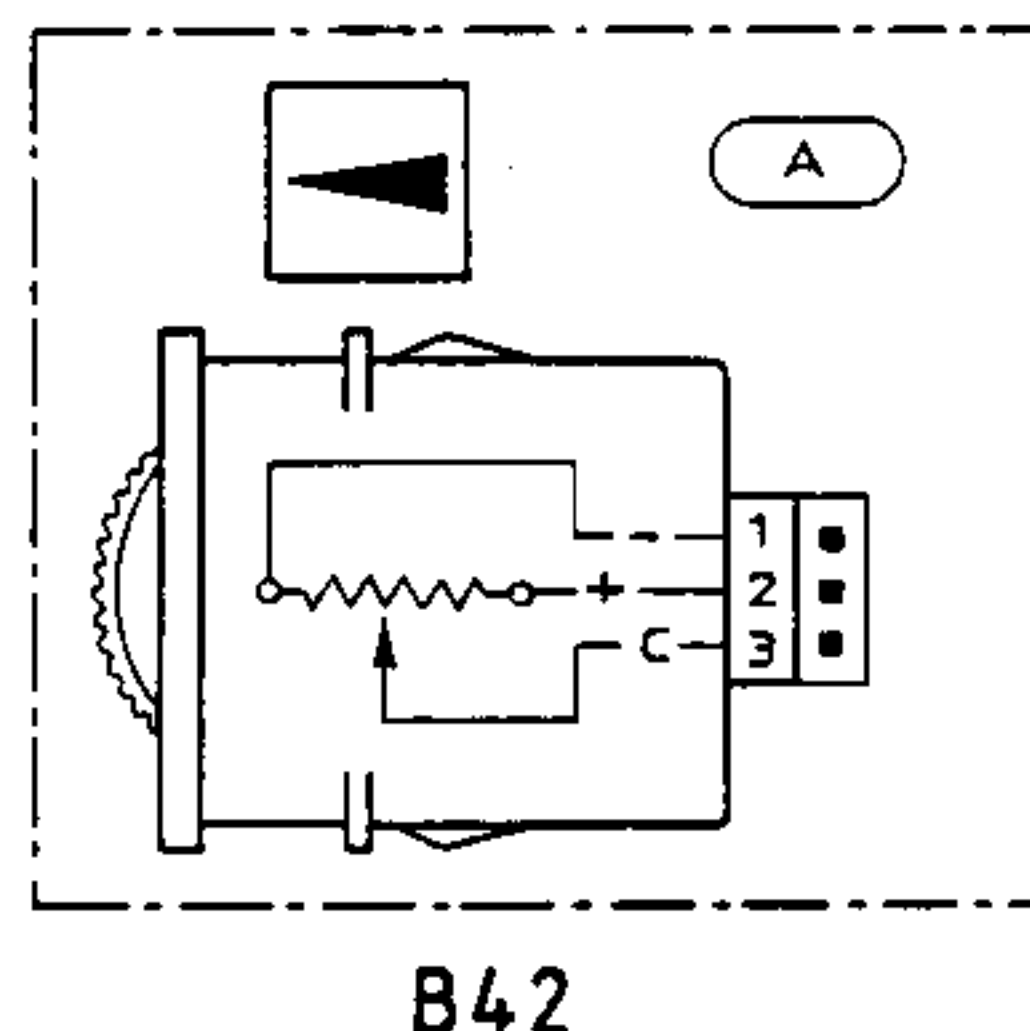
The diagrams represent the fullest version of the vehicle (with all optionals installed) and refer, except

where otherwise indicated, to all the versions with electronic injection destined for all markets.

In cases where the different versions of the vehicle result in variations in the electrical system the diagrams show each variation duplicating the relevant part of the circuit.

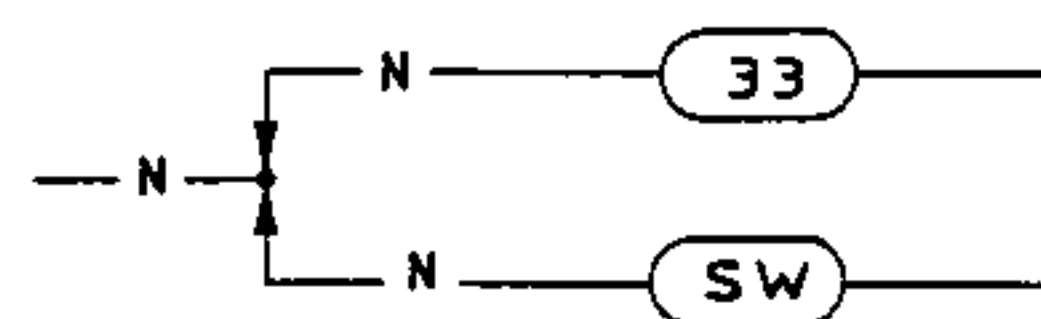
The variations are shown in accordance with the following:

- The dashed and dotted line defines the area on the diagram containing the specific variations for the versions indicated within the frame:



Bulb dimmer rheostat

- The connection identifies two or more variations in the wiring (shown by an arrow) present as an alternative and connected in the same way. The variations refer to the version indicated inside the frame.



## WIRING DIAGRAMS

The variations, in addition to models (33 - SW) and versions, also refer to the various markets in accordance with the following table:

		<b>IAW</b>	Specific for versions with IAW electronic injection	<b>R-A</b>	Specifically for UNITED KINGDOM/IRELAND - AUSTRALIA
<b>33</b>	Specific for 33 models	<b>JETR.</b>	Specific for versions with LE3-JETRONIC electronic injection	<b>OR-A</b>	Excluding UNITED KINGDOM/IRELAND - AUSTRALIA
<b>SW</b>	Specific for SPORT WAGON models	<b>MOTR.</b>	Specific for versions with MOTRONIC ML4.1 electronic injection	<b>ON-R-A</b>	Excluding NORTH EUROPEAN COUNTRIES - UNITED KINGDOM/IRELAND - AUSTRALIA
<b>4x2</b>	Specific for 4x2 versions	<b>A</b>	Specifically for AUSTRALIA		
<b>4x4</b>	Specific for 4x4 versions	<b>OA</b>	Excluding AUSTRALIA	<b>R-A.C.</b>	Specific for versions equipped with ALFA CONTROL for UNITED KINGDOM/IRELAND
<b>A.C.</b>	Specific for versions equipped with ALFA CONTROL	<b>D</b>	Specifically for GERMANY		
<b>OA.C.</b>	Specific for versions not equipped with ALFA CONTROL	<b>N</b>	Specifically for NORTH EUROPEAN COUNTRIES	<b>OR-A.C.</b>	Excluding versions equipped with ALFA CONTROL for UNITED KINGDOM/IRELAND
<b>33-A.C.</b>	Specific for 33 models equipped with ALFA CONTROL	<b>ON</b>	Excluding NORTH EUROPEAN COUNTRIES	<b>A.C.OR</b>	Specific for versions equipped with ALFA CONTROL, excluding UNITED KINGDOM/IRELAND
<b>S.W.-A.C.</b>	Specific for SPORT WAGON models equipped with ALFA CONTROL	<b>R</b>	Specifically for UNITED KINGDOM/IRELAND		
<b>1.7</b>	Specific for 1.7. IE versions	<b>OR</b>	Excluding UNITED KINGDOM/IRELAND	<b>1.7OA</b>	Specific for 1.7 IE versions excluding AUSTRALIA
<b>1.7</b>	Excluding 1.7 IE versions	<b>N-R</b>	Specifically for NORTH EUROPEAN COUNTRIES - UNITED KINGDOM/IRELAND	<b>1.7OR</b>	Specific for 1.7 IE versions excluding UNITED KINGDOM/IRELAND
<b>1.5</b>	Excluding 33 1.5 IE			<b>1.7OR-A</b>	Specific for 1.7 IE versions excluding UNITED KINGDOM/IRELAND - AUSTRALIA
<b>1.3-1.4-1.5</b>	Excluding 33 1.3 IE 33 1.4 IE - 33 1.5 IE	<b>ON-R</b>	Excluding NORTH EUROPEAN COUNTRIES - UNITED KINGDOM/IRELAND		
<b>1.7 4x2</b>	Specific for 1.7 IE 4x2 versions				
<b>4x2 1.7</b>	Specific for 4x2 versions excluding 1.7 IE				

**IDENTIFICATION OF CABLES**

A code composed of one or more letters and a number is marked on the end of each cable (e.g. BN1). The letters identify the colour of the cable and the number its thickness (N.B. the section of unmarked cables is 0.5 mm<sup>2</sup>).

The name of the colour has been abbreviated and the list of these abbreviations is given below.

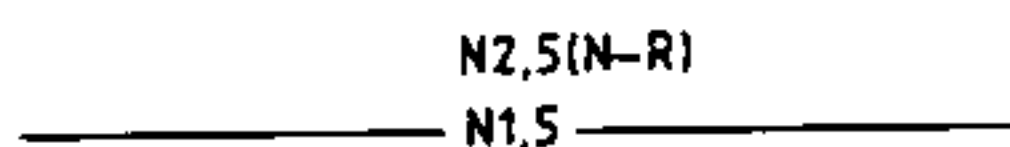
- A** Light blue
- B** White
- BL-L** Blue
- C** Orange
- G** Yellow
- H** Grey
- M** Brown
- N** Black
- No** Hazlenut
- R** Red
- S** Pink
- V** Green
- Z** Purple

**NOTE:** for combinations the colours are simply coupled:

Example:

- AB** Light-blue white
- AN** Light-blue black
- CN** Orange black
- GN** Yellow black
- RN** Red black
- ZB** Purple white

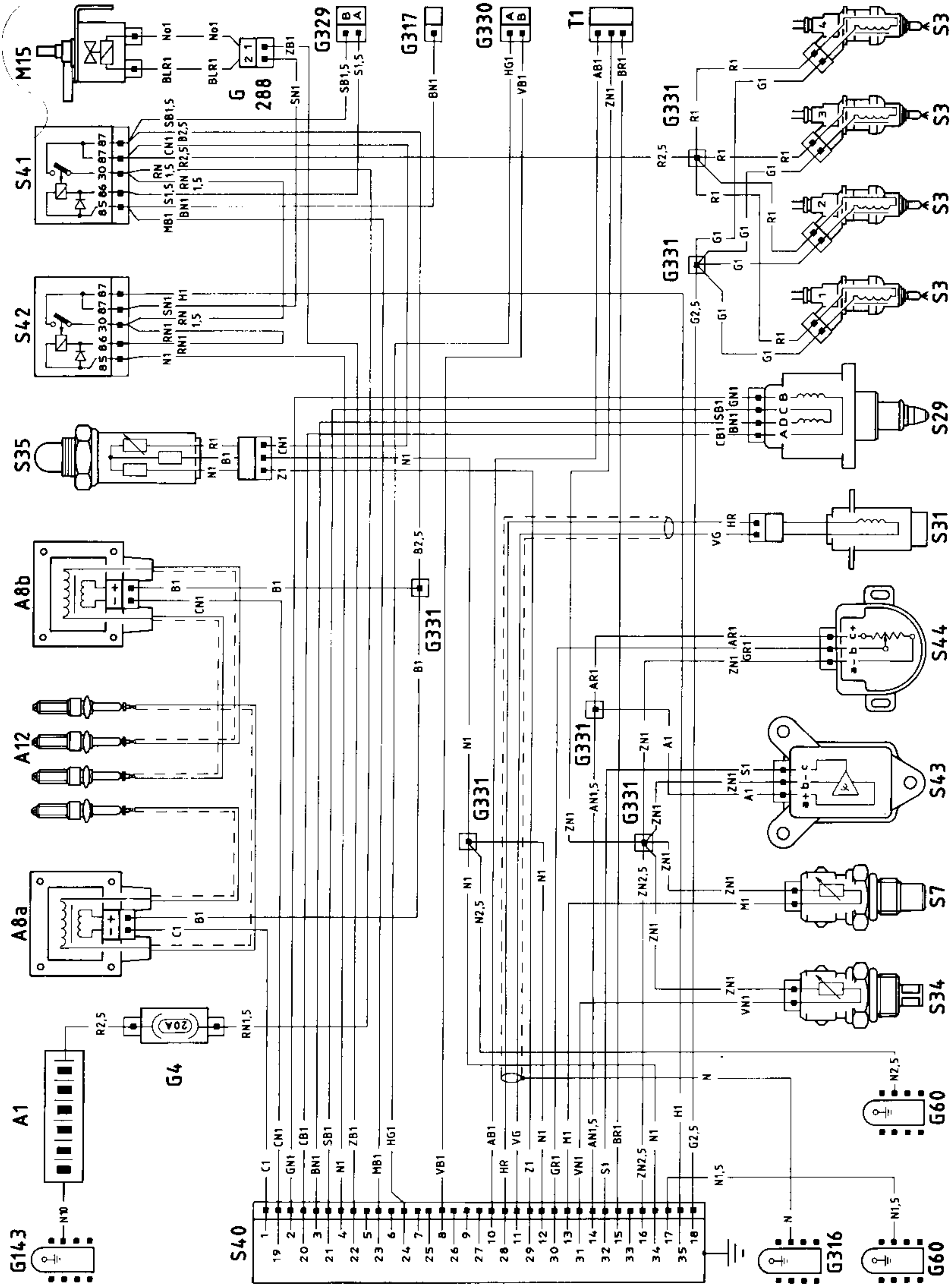
In cases where the requirements of the various markets lead to a variation in the colour or section of the cables given on the same diagram, these are indicated on the same line as in the following example:



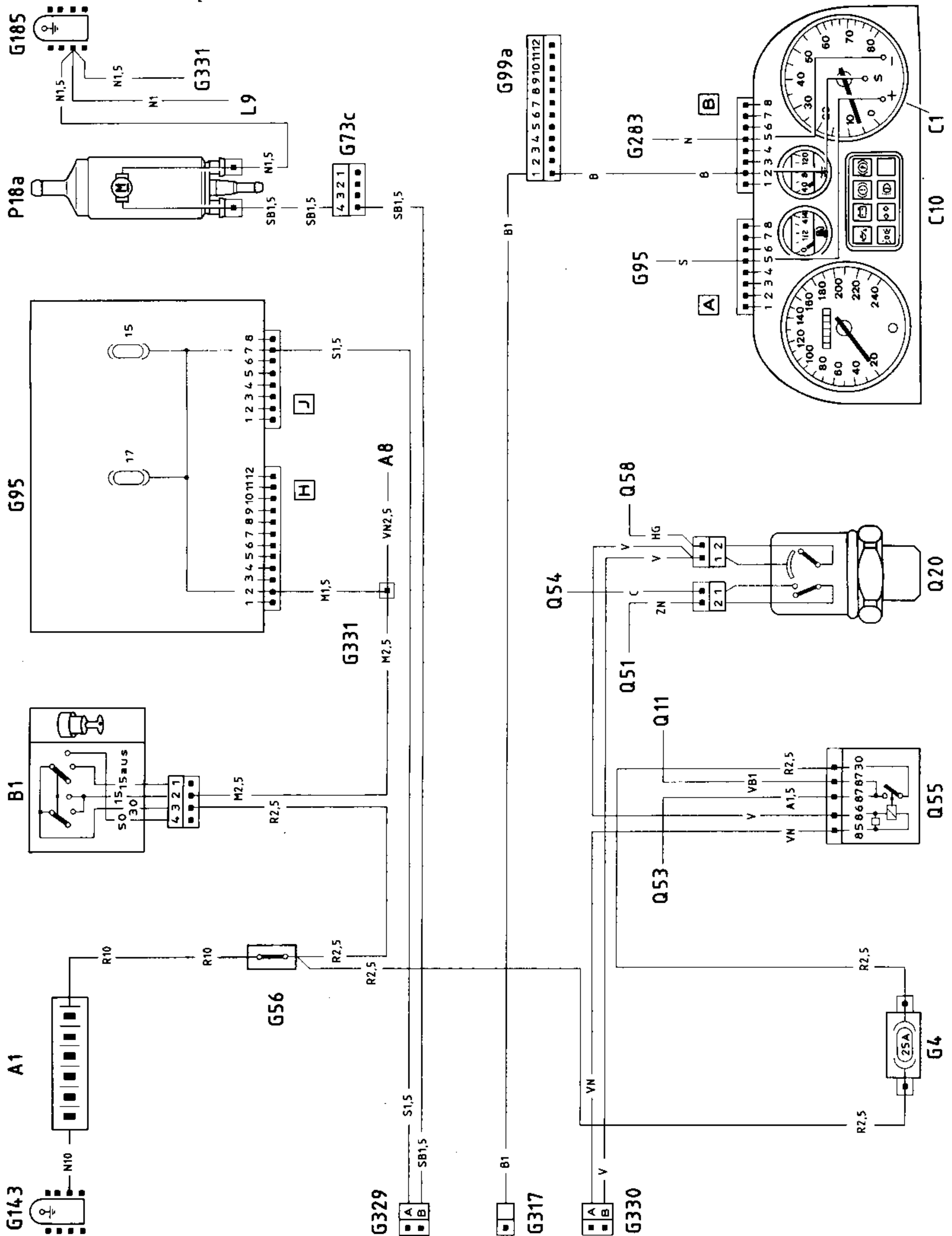
where the first code (N2,5) refers to the markets given between brackets (N-R) and the second code (N1,5) refers to all the other markets.

# IGNITION - INJECTION

I.A.W. IGNITION INJECTION (Diagram A)



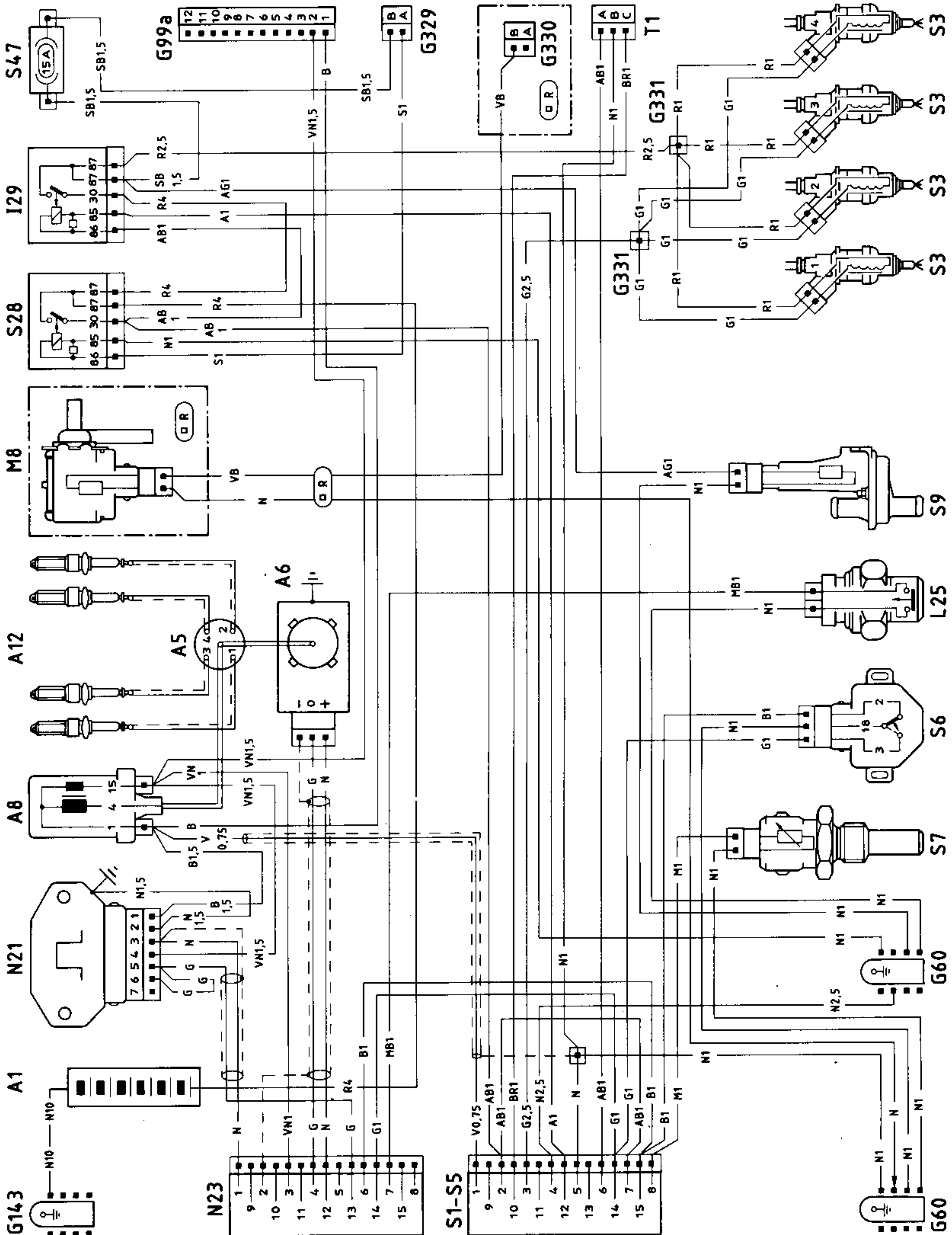
I.A.W. IGNITION INJECTION (Diagram B)



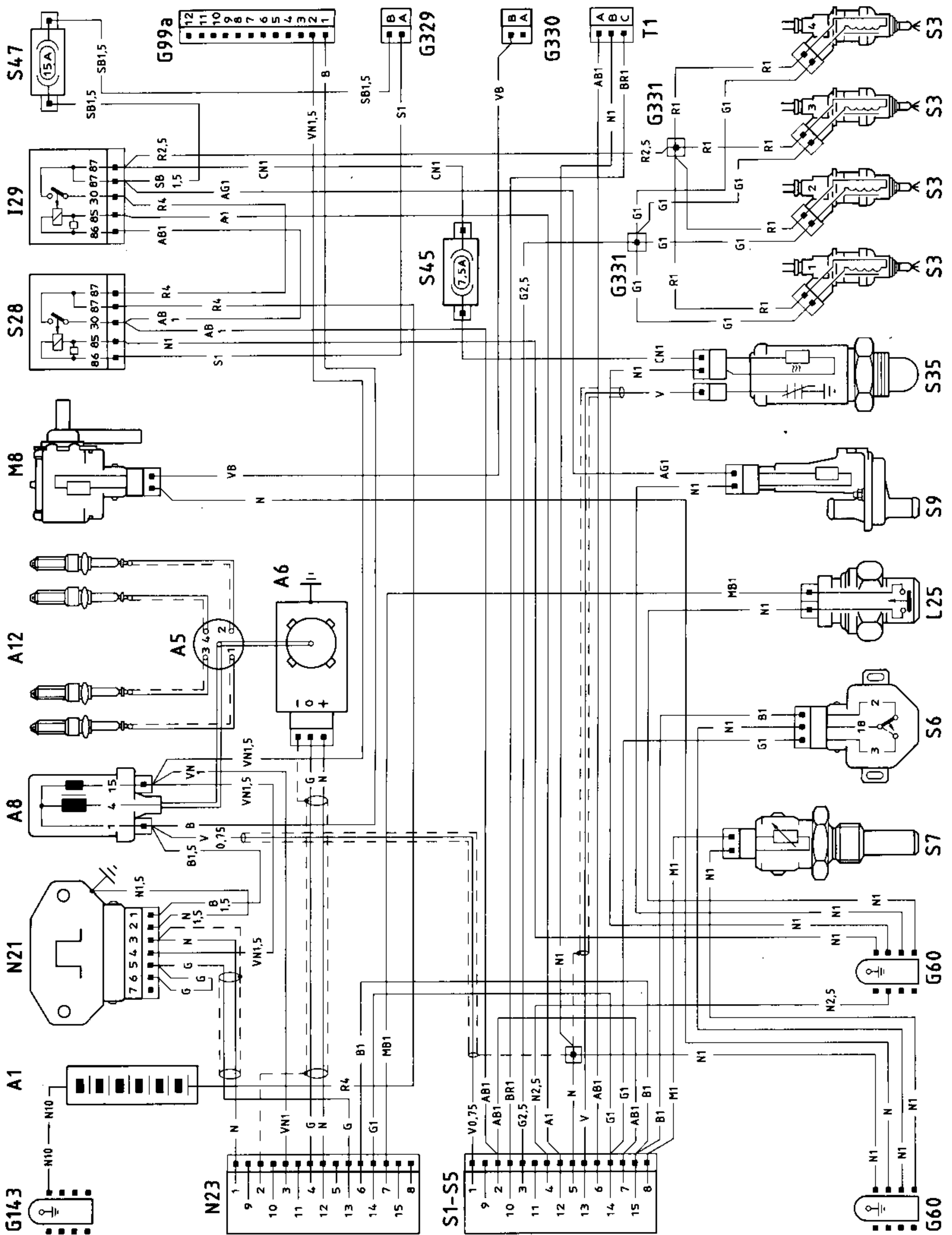


WIRING DIAGRAMS

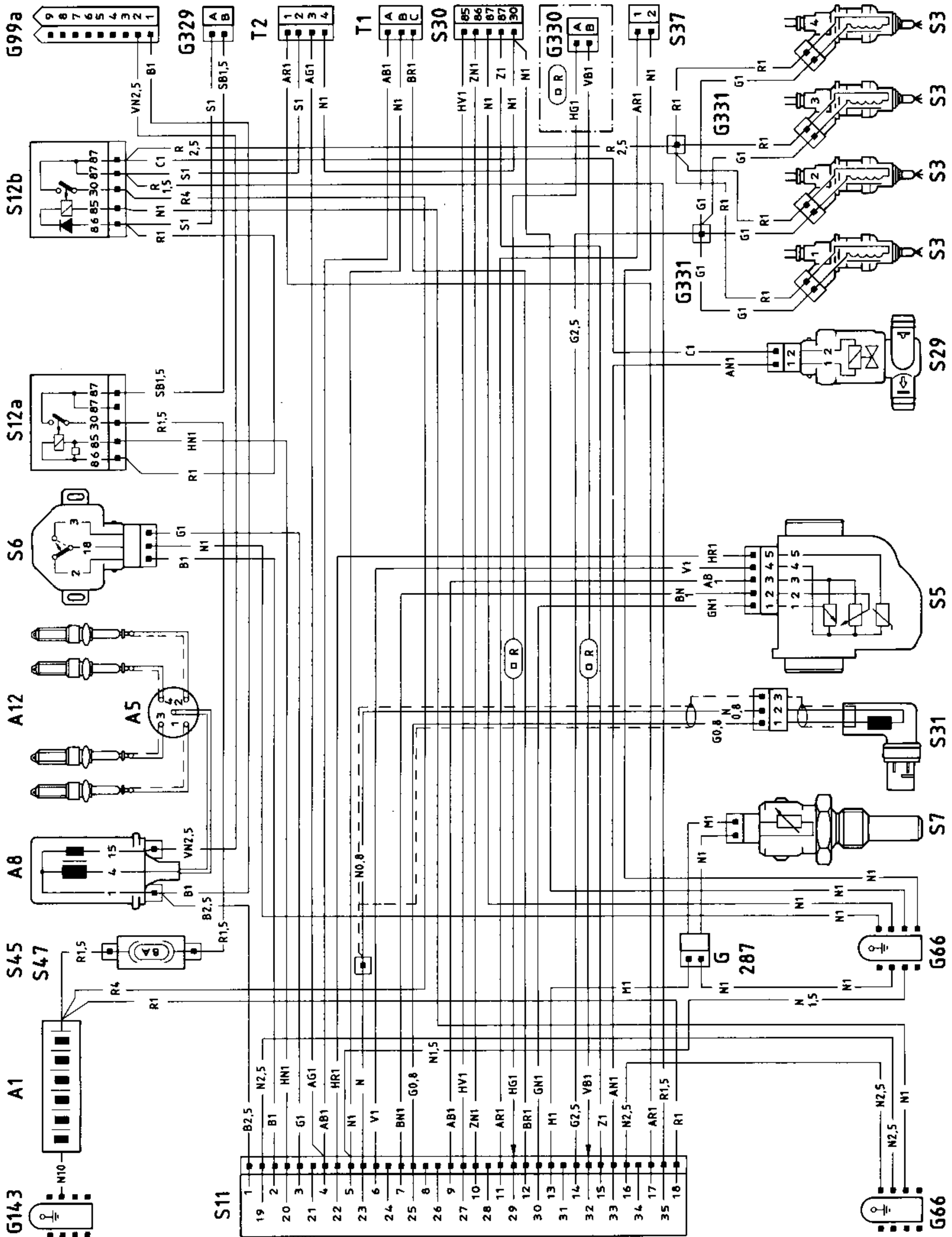
LE3 JETRONIC IGNITION - INJECTION (without catalytic converter) (Diagram A)



LE3 JETRONIC IGNITION - INJECTION (with catalytic converter) (Diagram A)

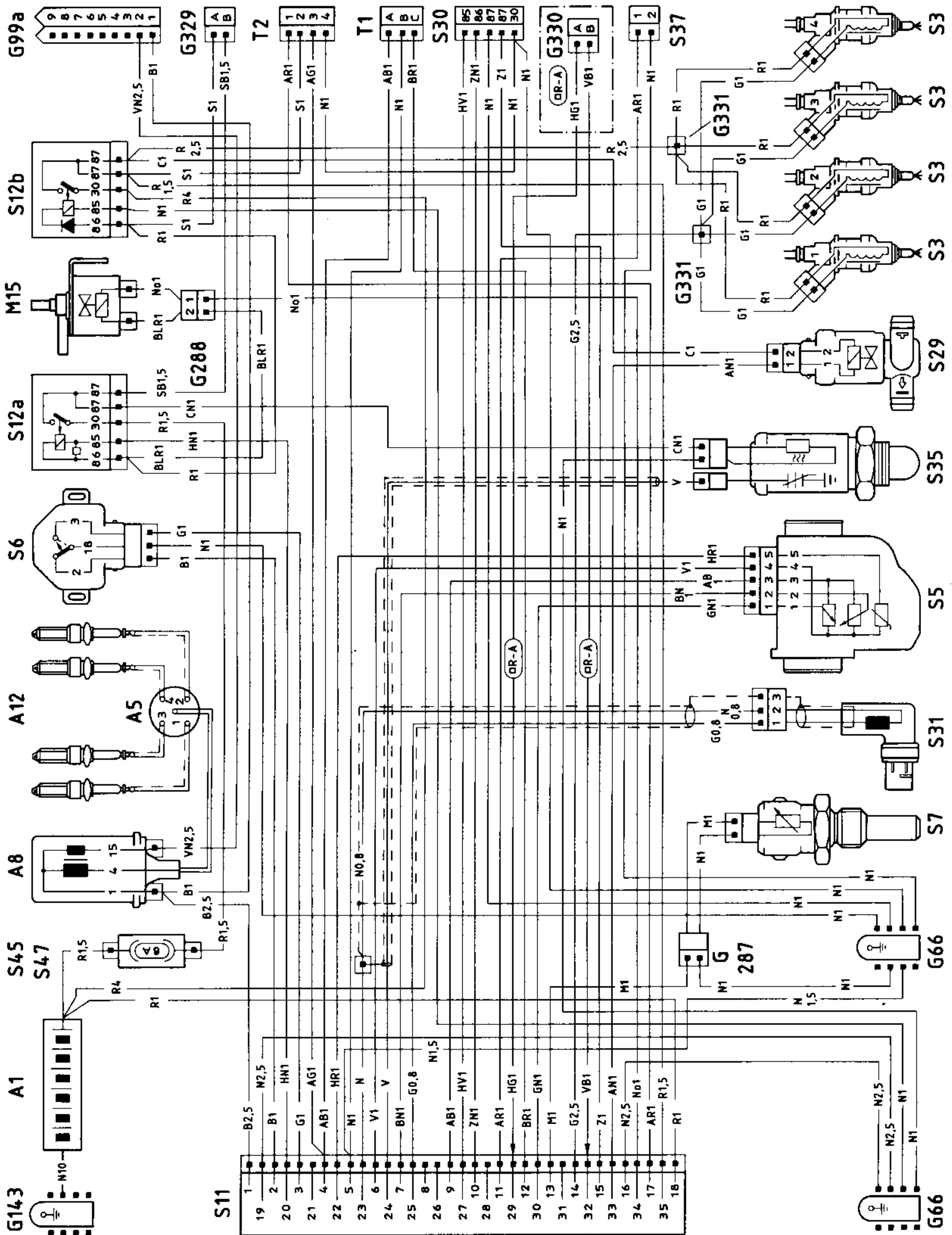


MOTRONIC ML4.1 IGNITION INJECTION (without catalytic converter) (Diagram A)

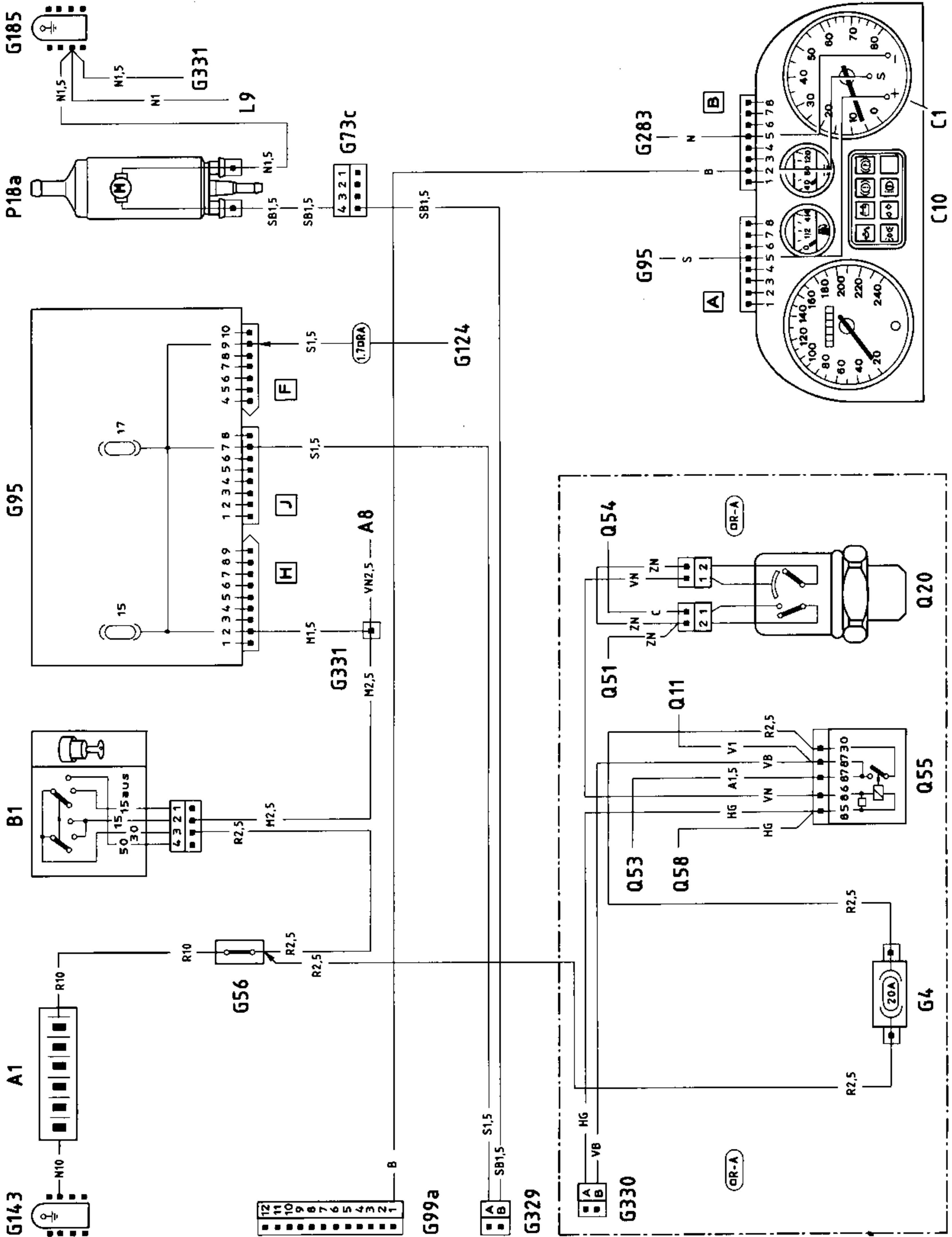


# WIRING DIAGRAMS

## MOTRONIC ML4.1 IGNITION INJECTION (with catalytic converter) (Diagram A)

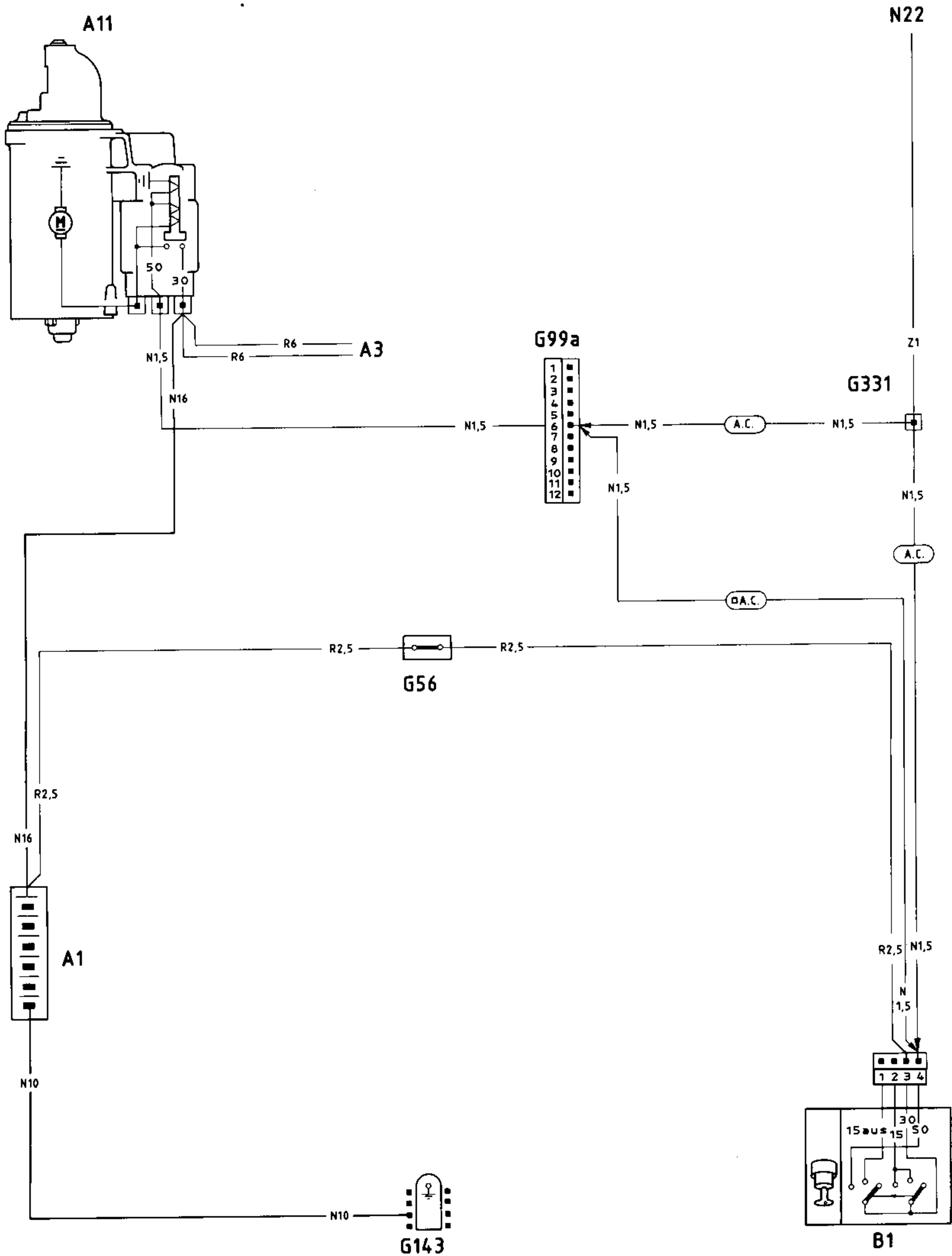


LE3 JETRONIC, MOTRONIC ML4.1 IGNITION INJECTION (Diagram B)



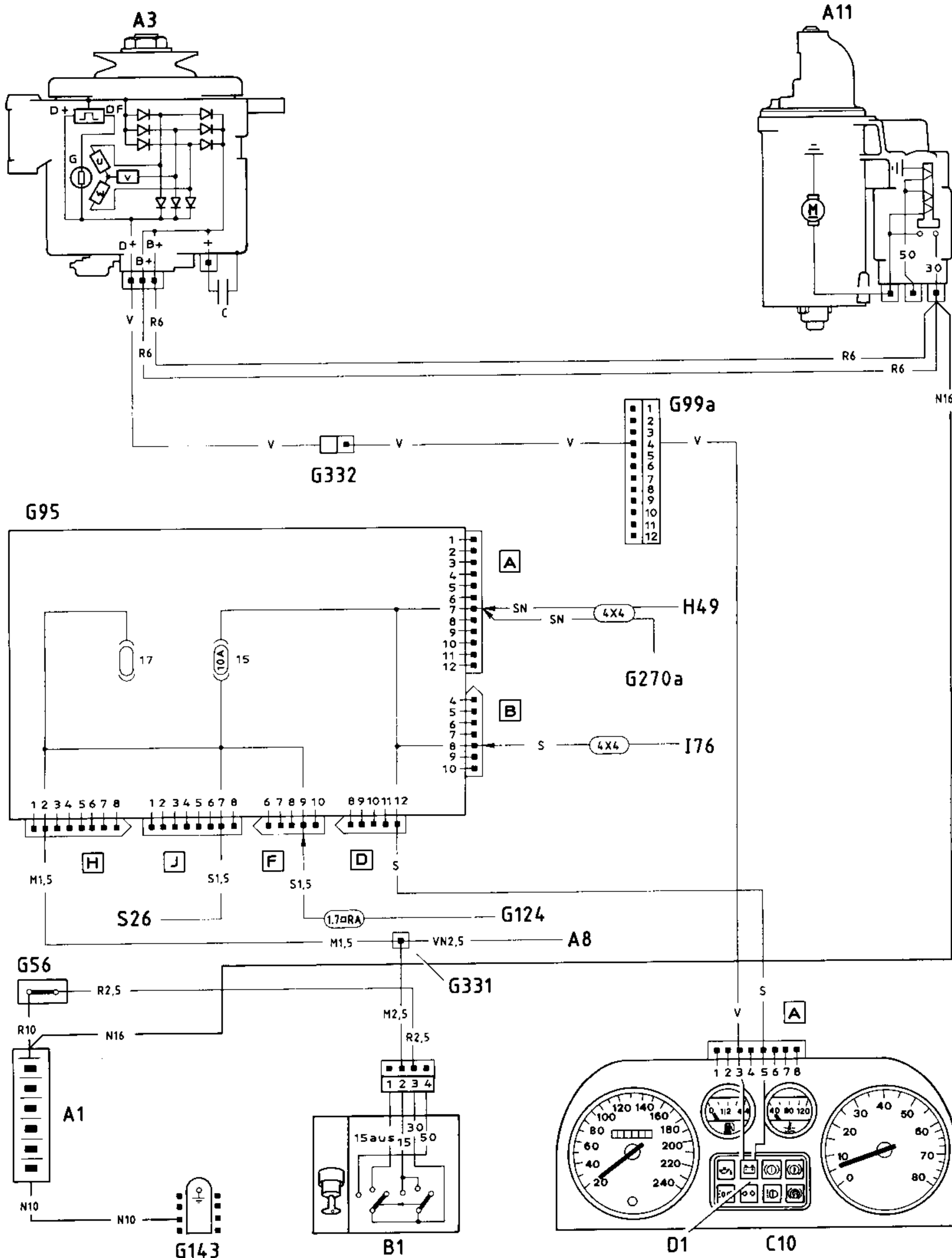
# STARTING - CHARGING

## STARTING



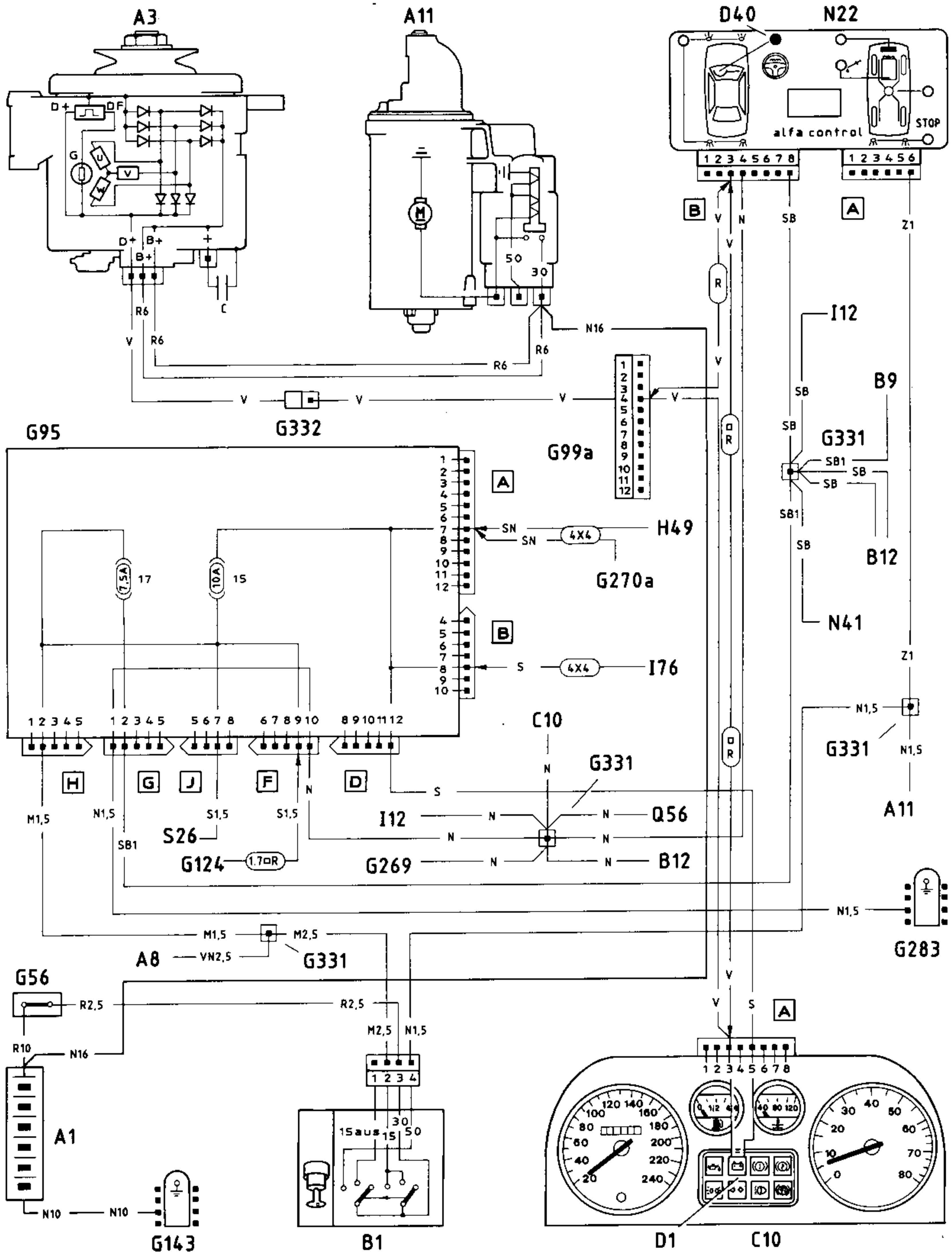
WIRING DIAGRAMS

CHARGING (versions not equipped with ALFA CONTROL)



# WIRING DIAGRAMS

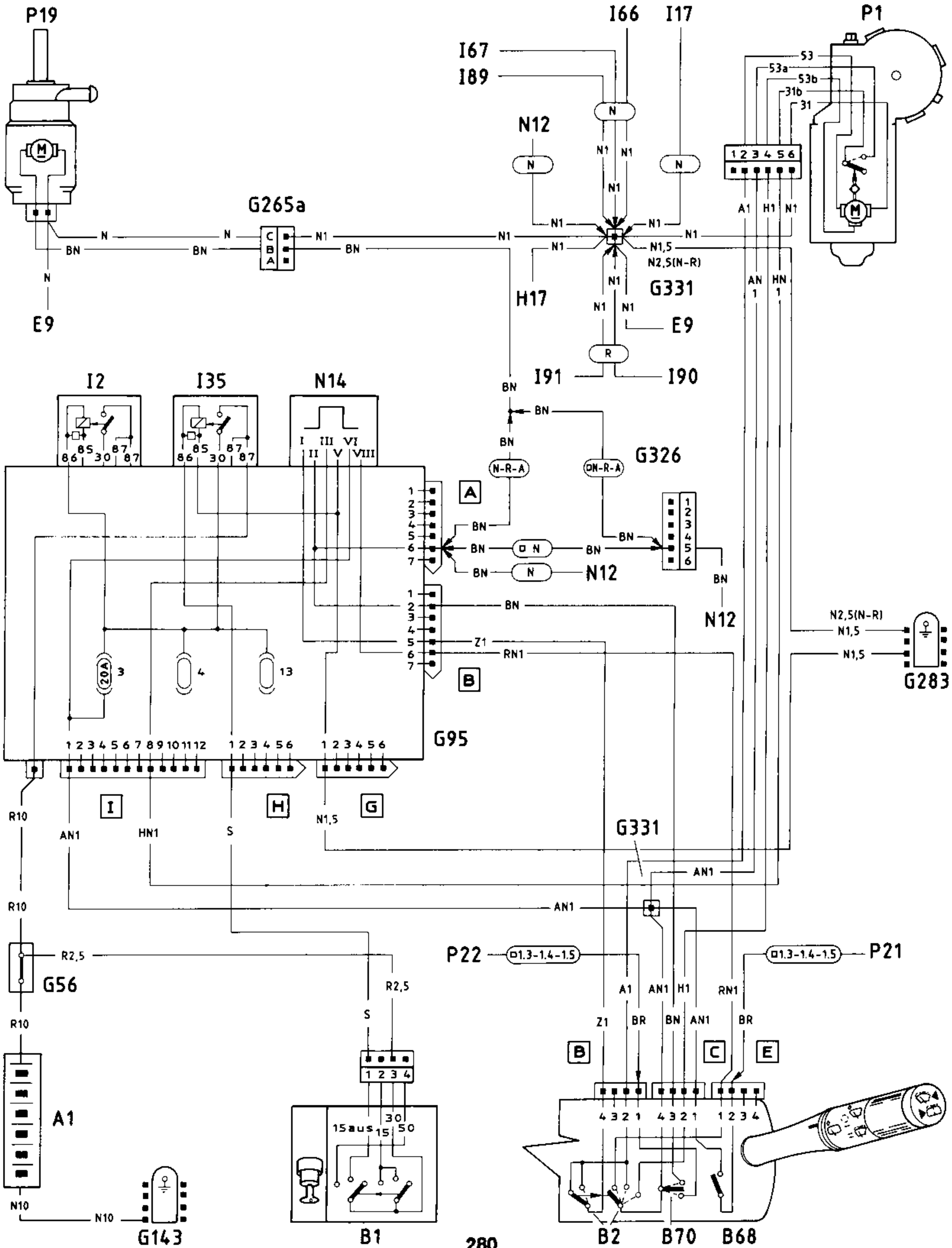
## CHARGING (versions equipped with ALFA CONTROL)



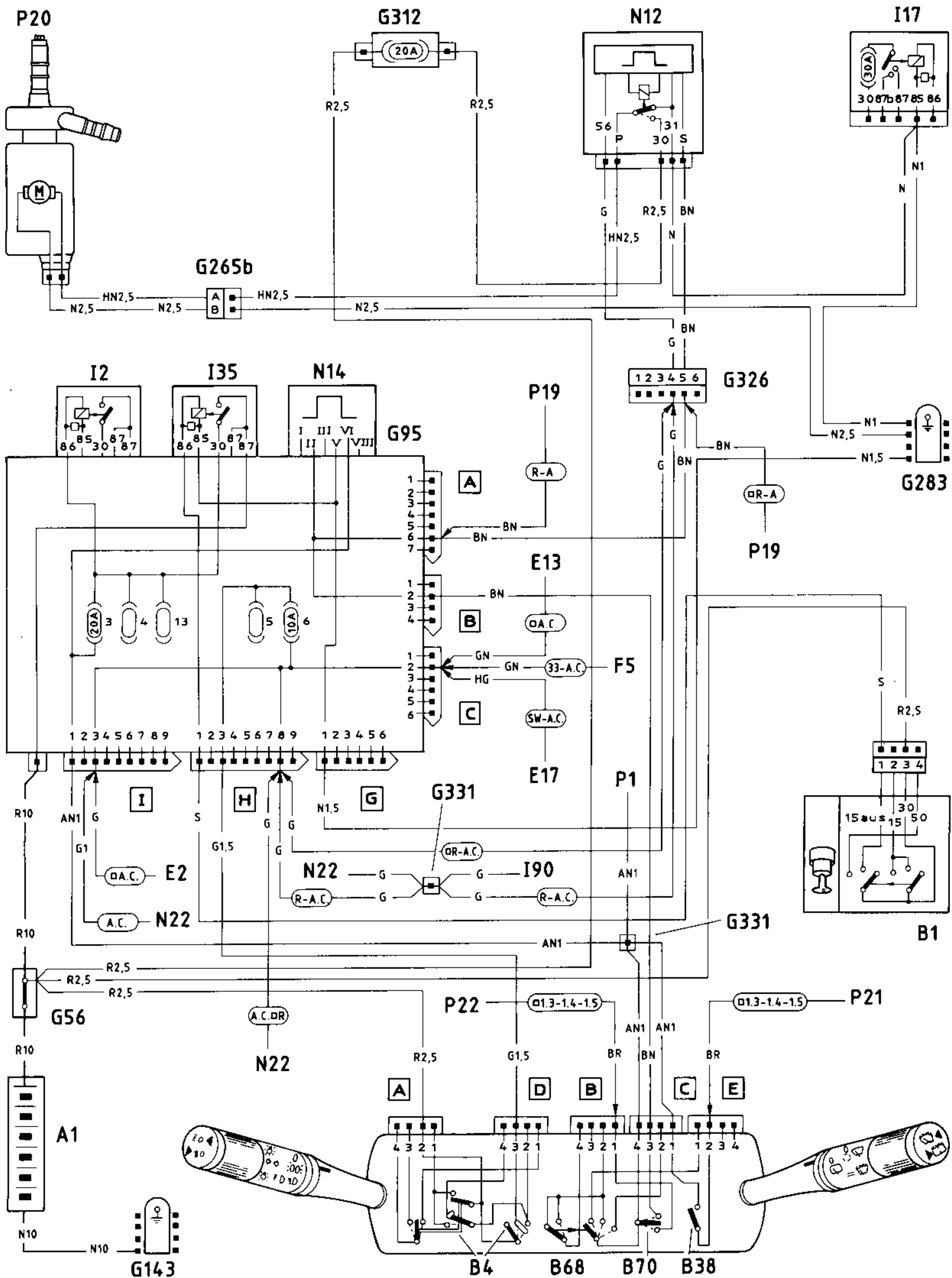


# ELECTROMECHANICAL DEVICES AND INTERMITTENCES

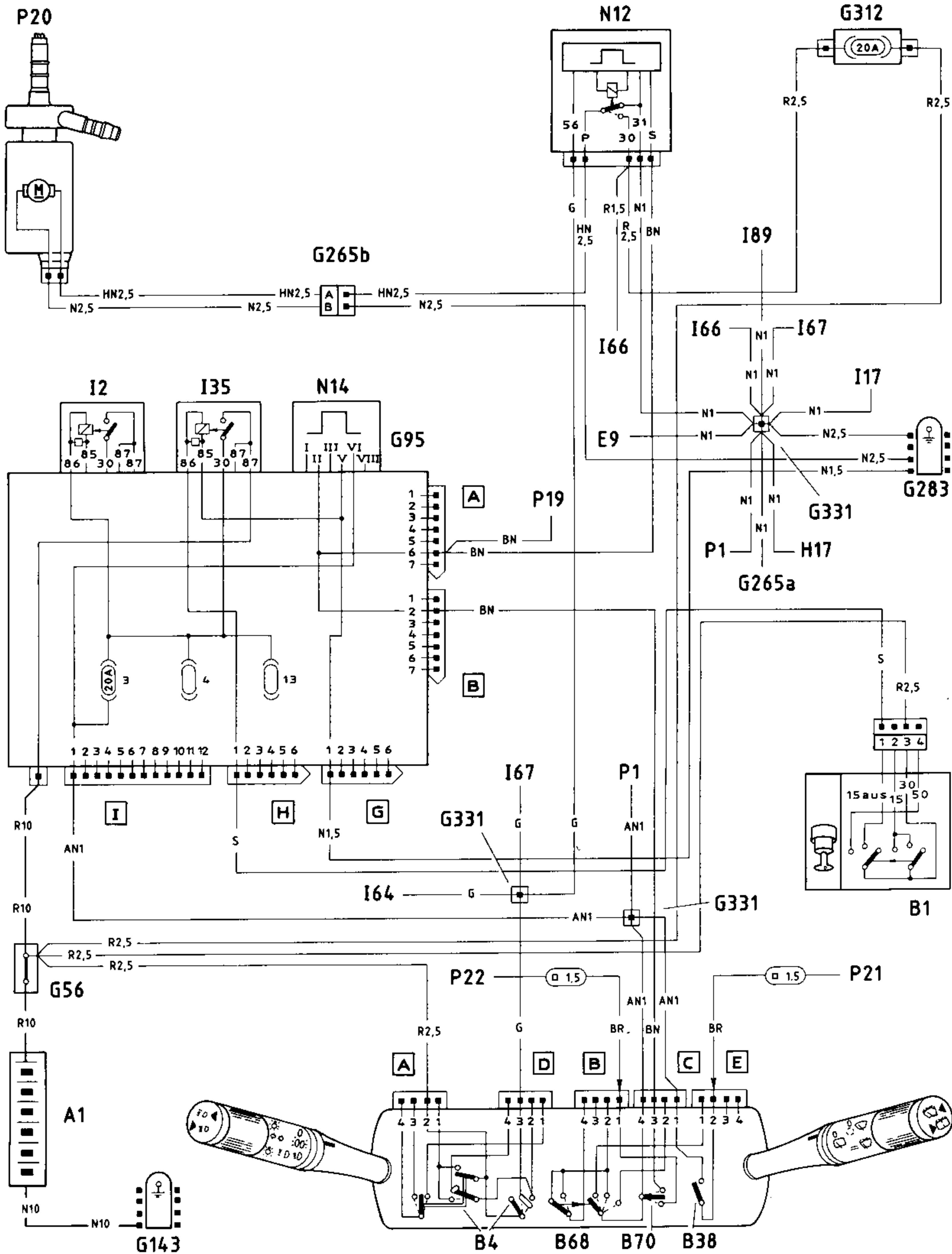
## WINDSCREEN WASHER-WIPER



HEADLIGHT WASHER (excluding NORTH EUROPEAN COUNTRIES)

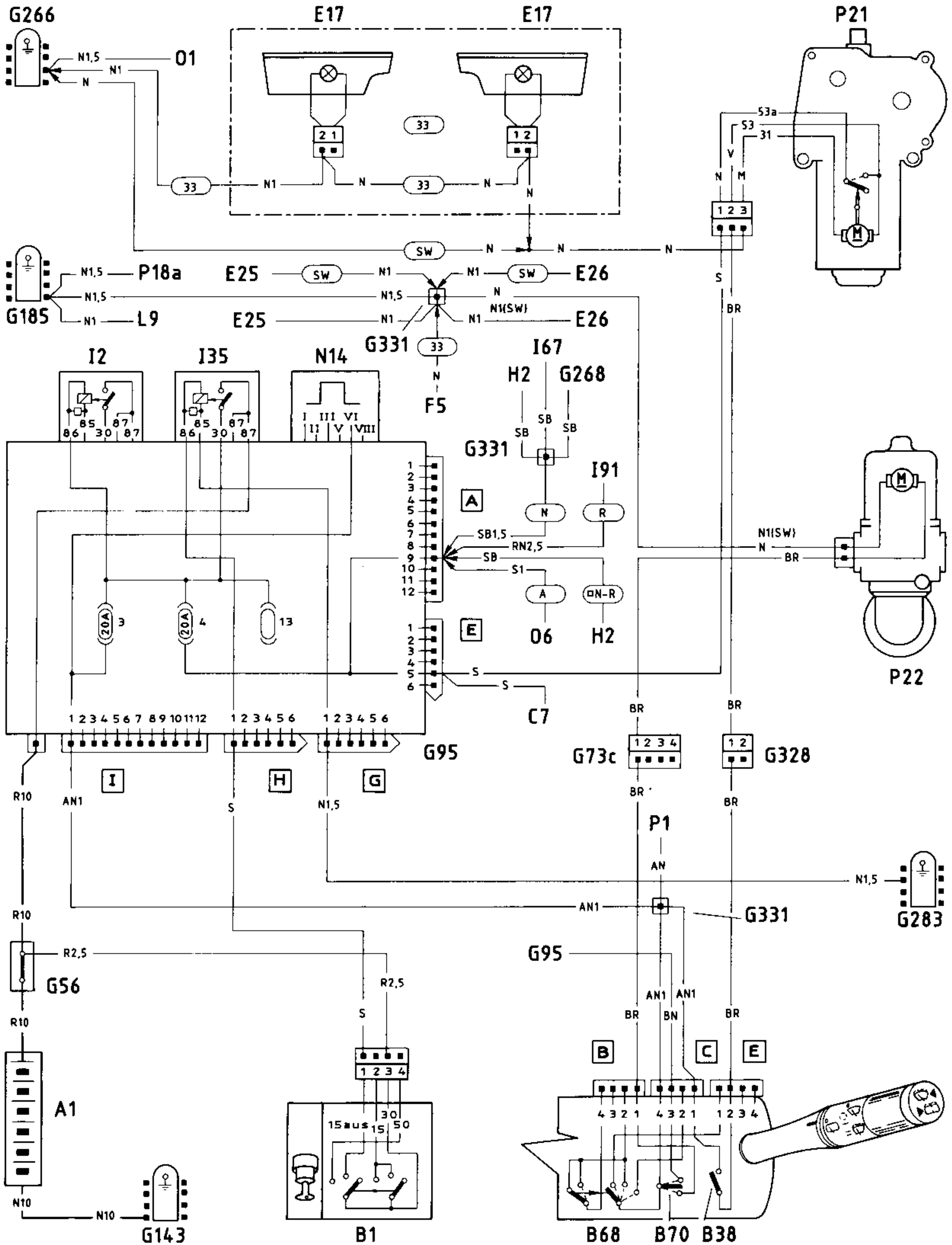


HEADLIGHT WASHER (for NORTH EUROPEAN COUNTRIES)



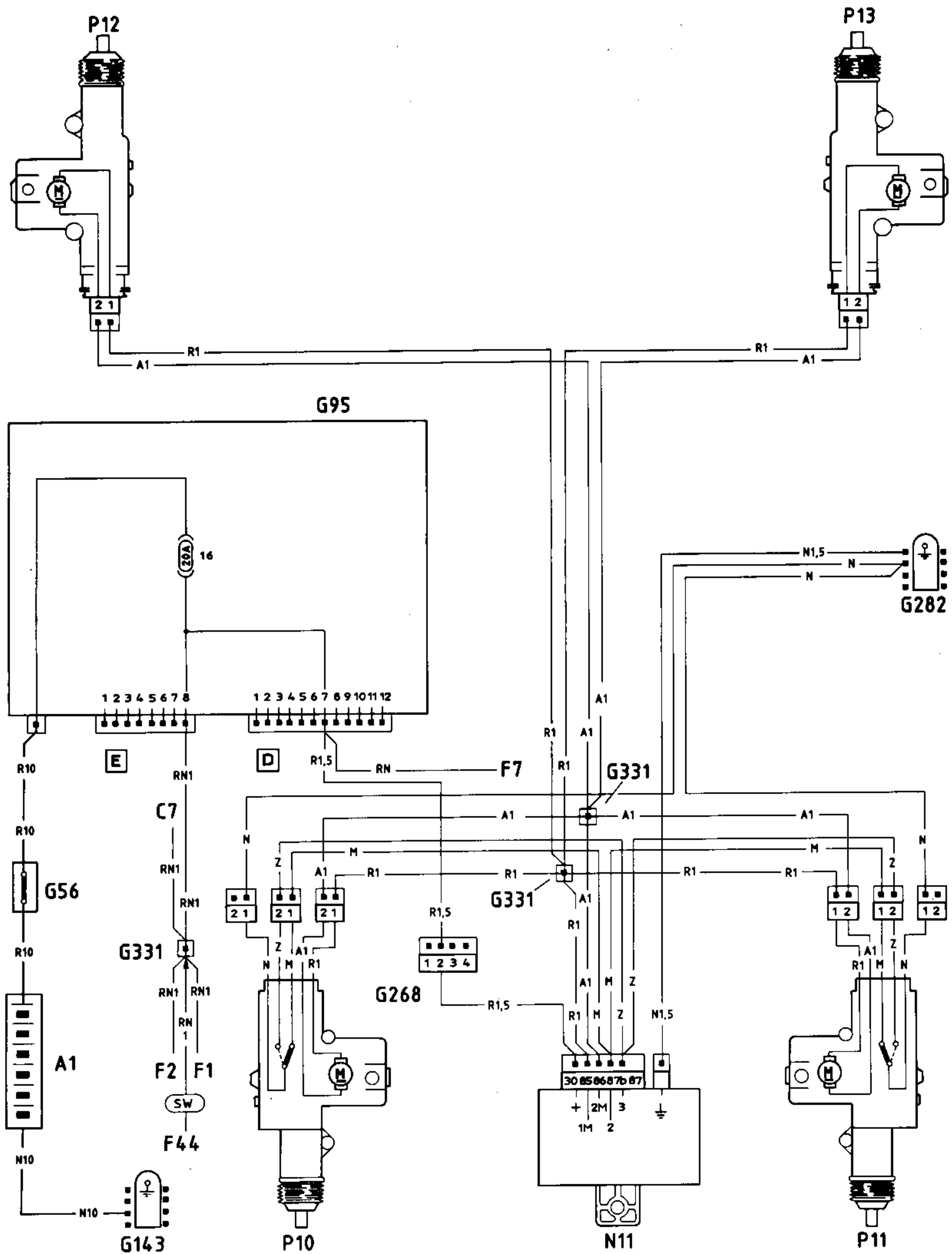
# WIRING DIAGRAMS

## REAR WINDSCREEN WASHER-WIPER



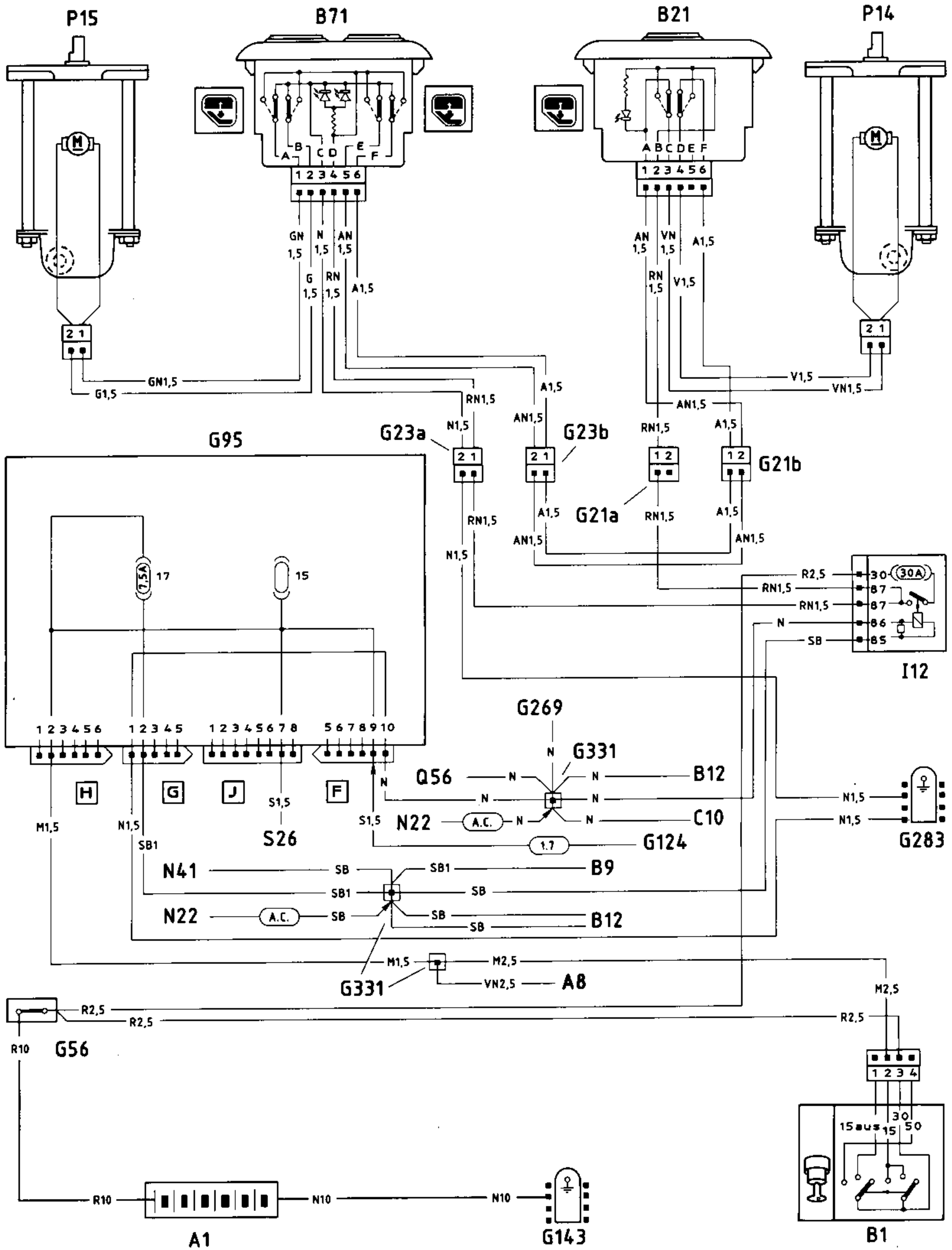
WIRING DIAGRAMS

DOOR LOCKS



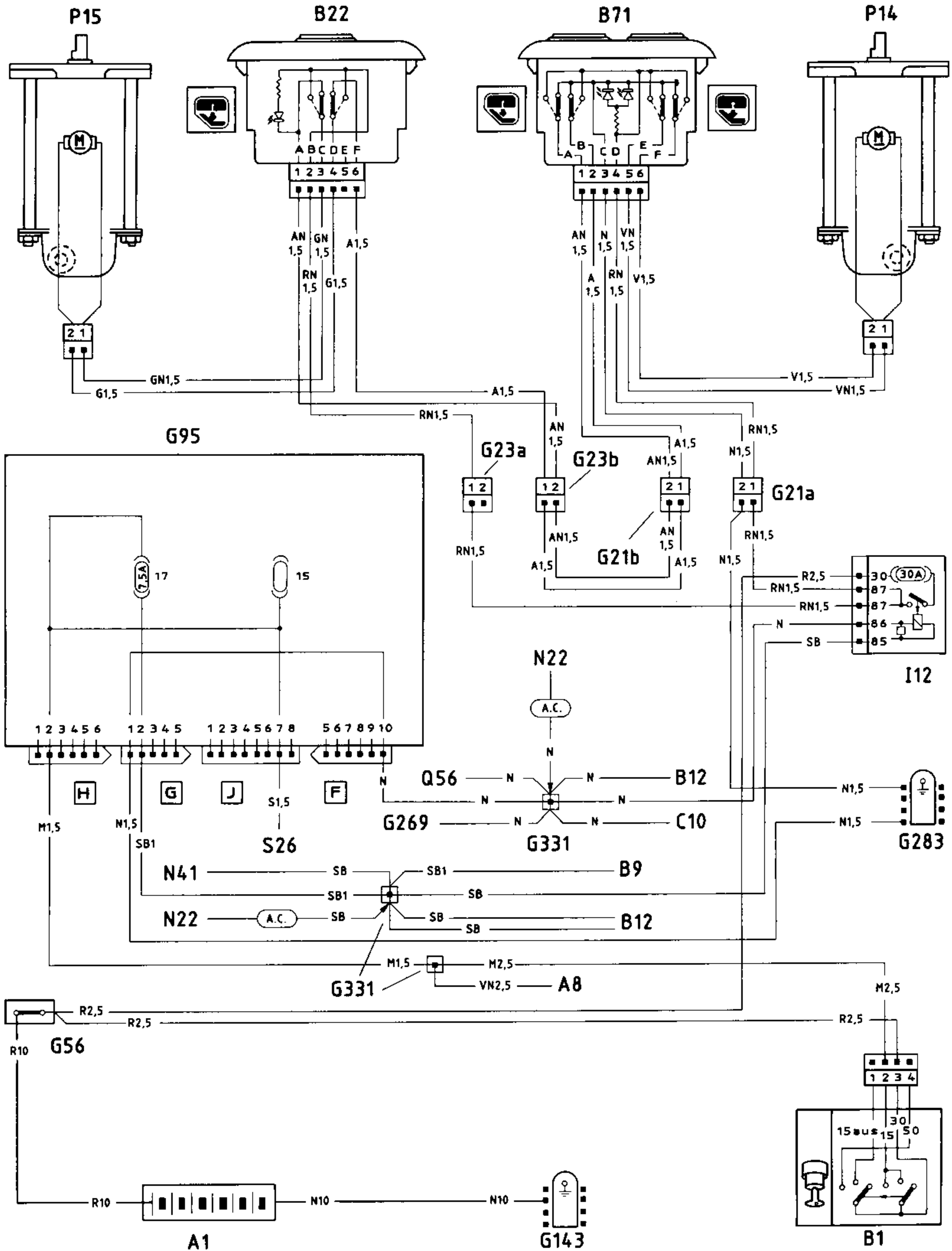
WIRING DIAGRAMS

POWER WINDOWS (except for UNITED KINGDOM/IRELAND - AUSTRALIA)



WIRING DIAGRAMS

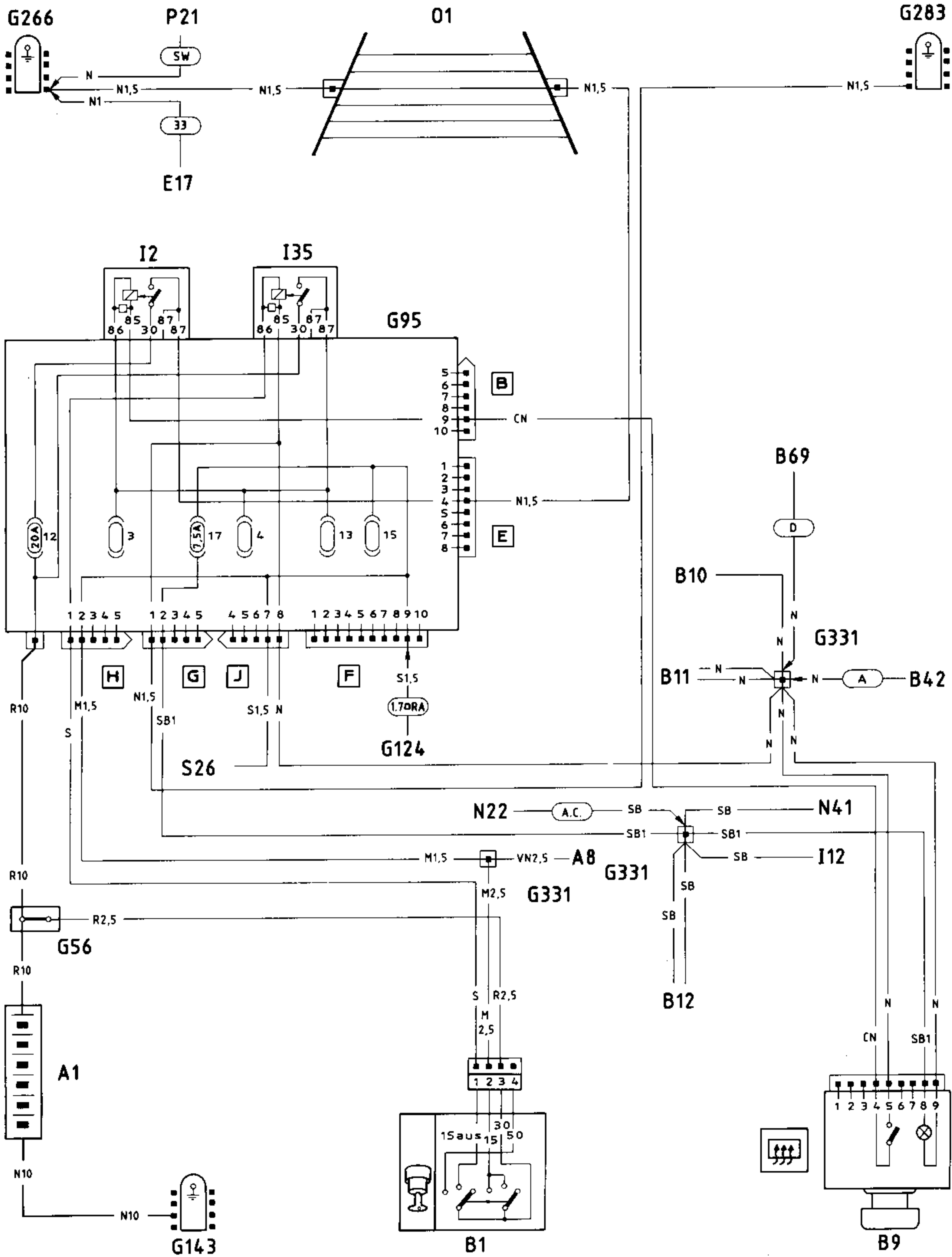
POWER WINDOWS (for UNITED KINGDOM/IRELAND - AUSTRALIA)





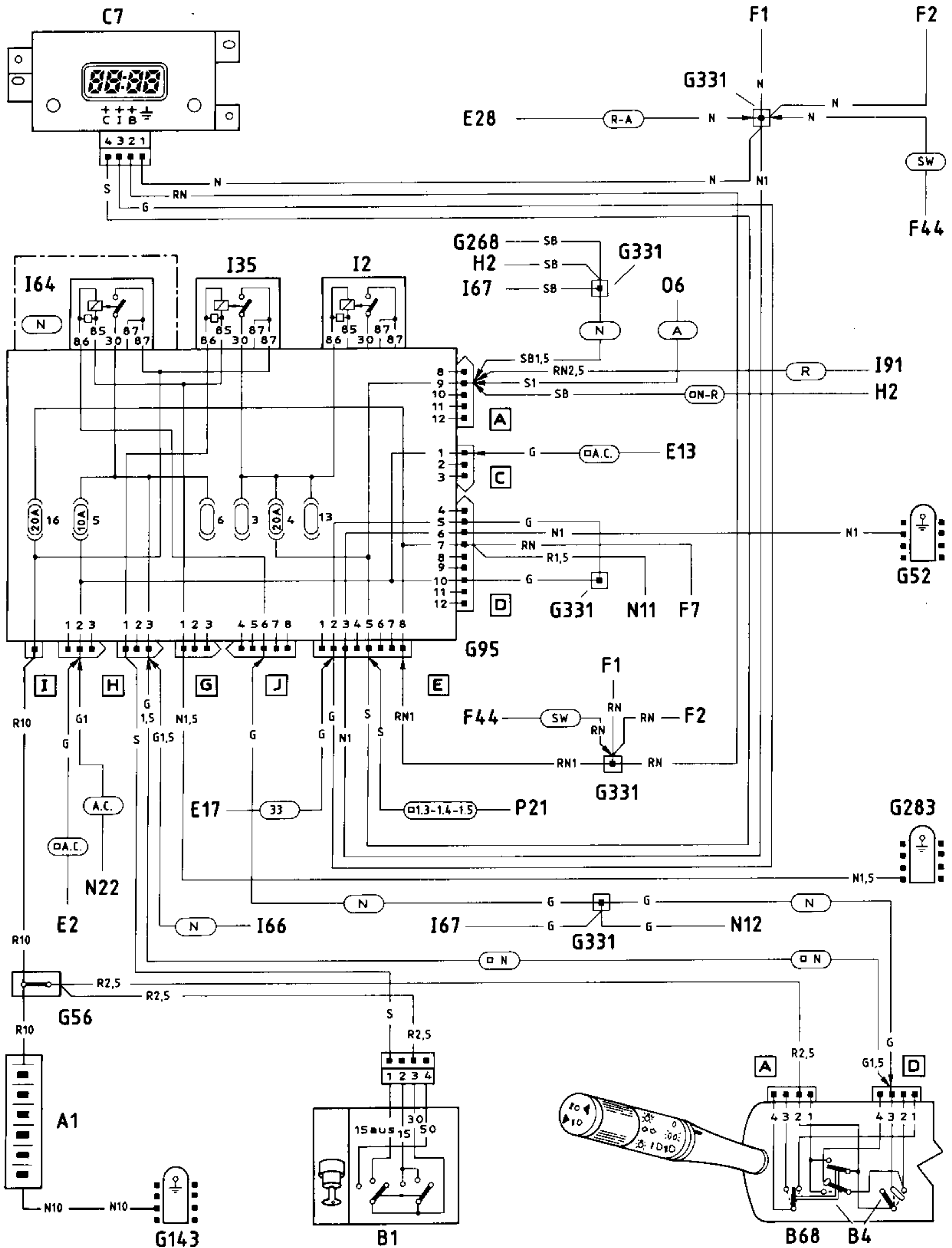


HEATED REAR WINDOW



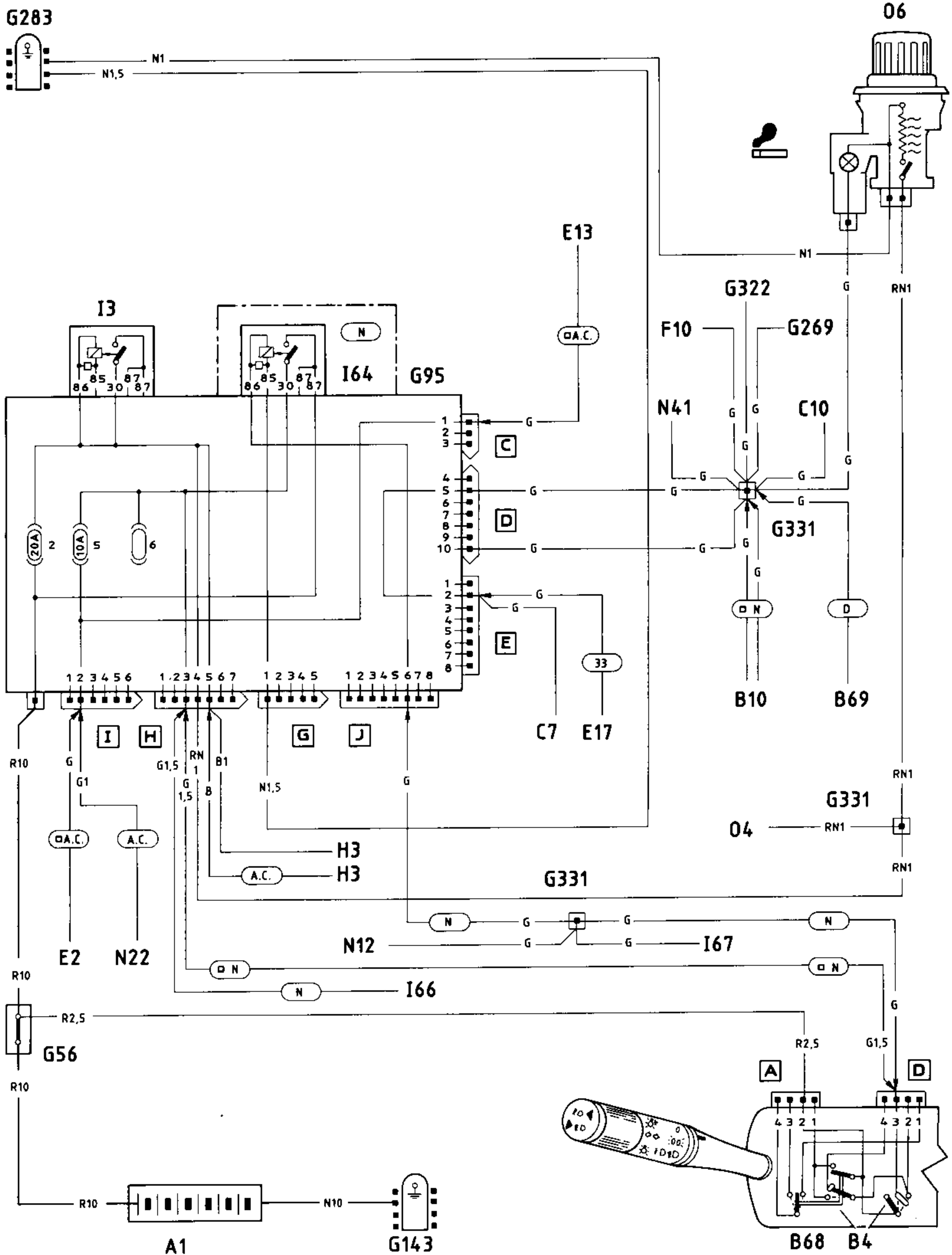
WIRING DIAGRAMS

CLOCK

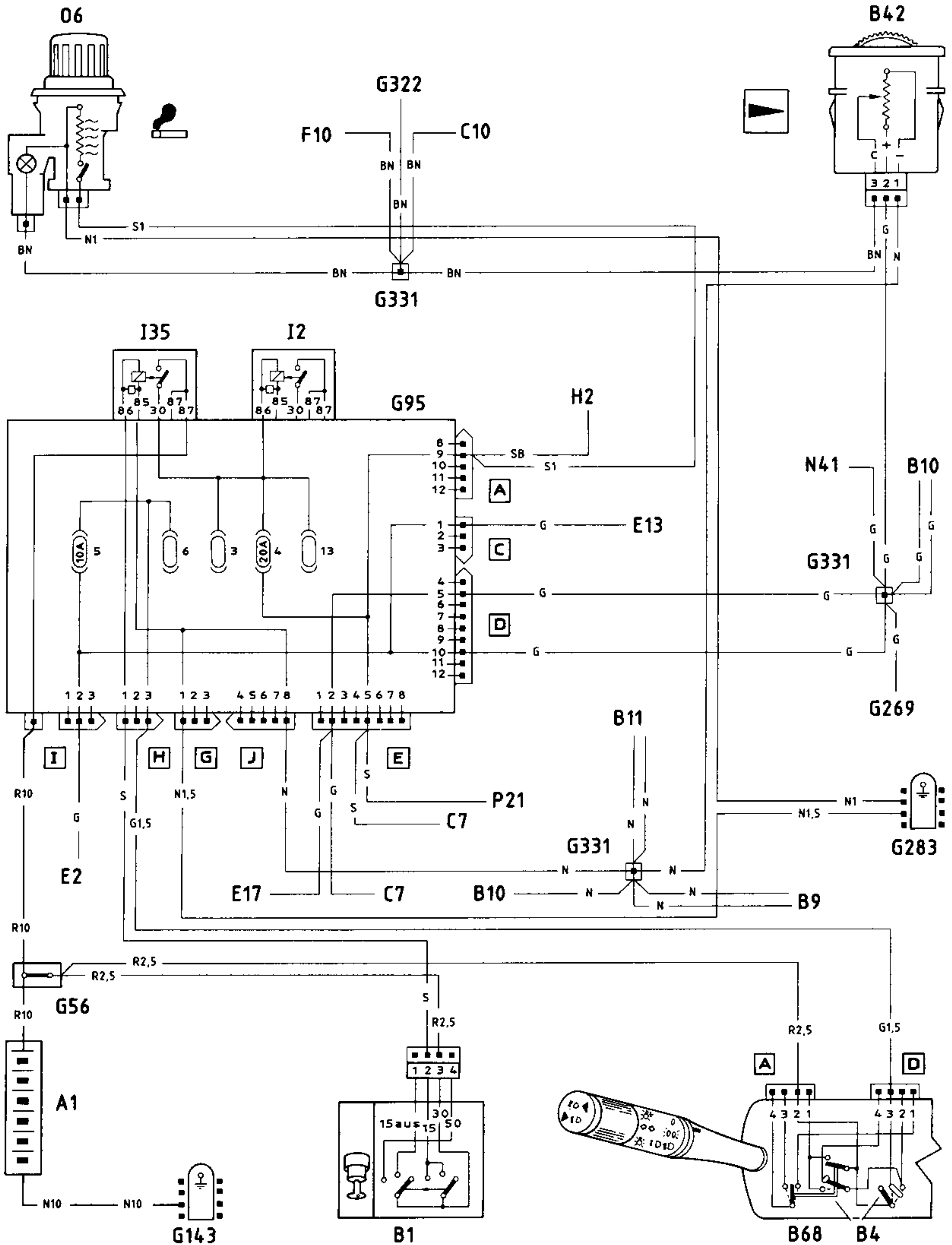


# WIRING DIAGRAMS

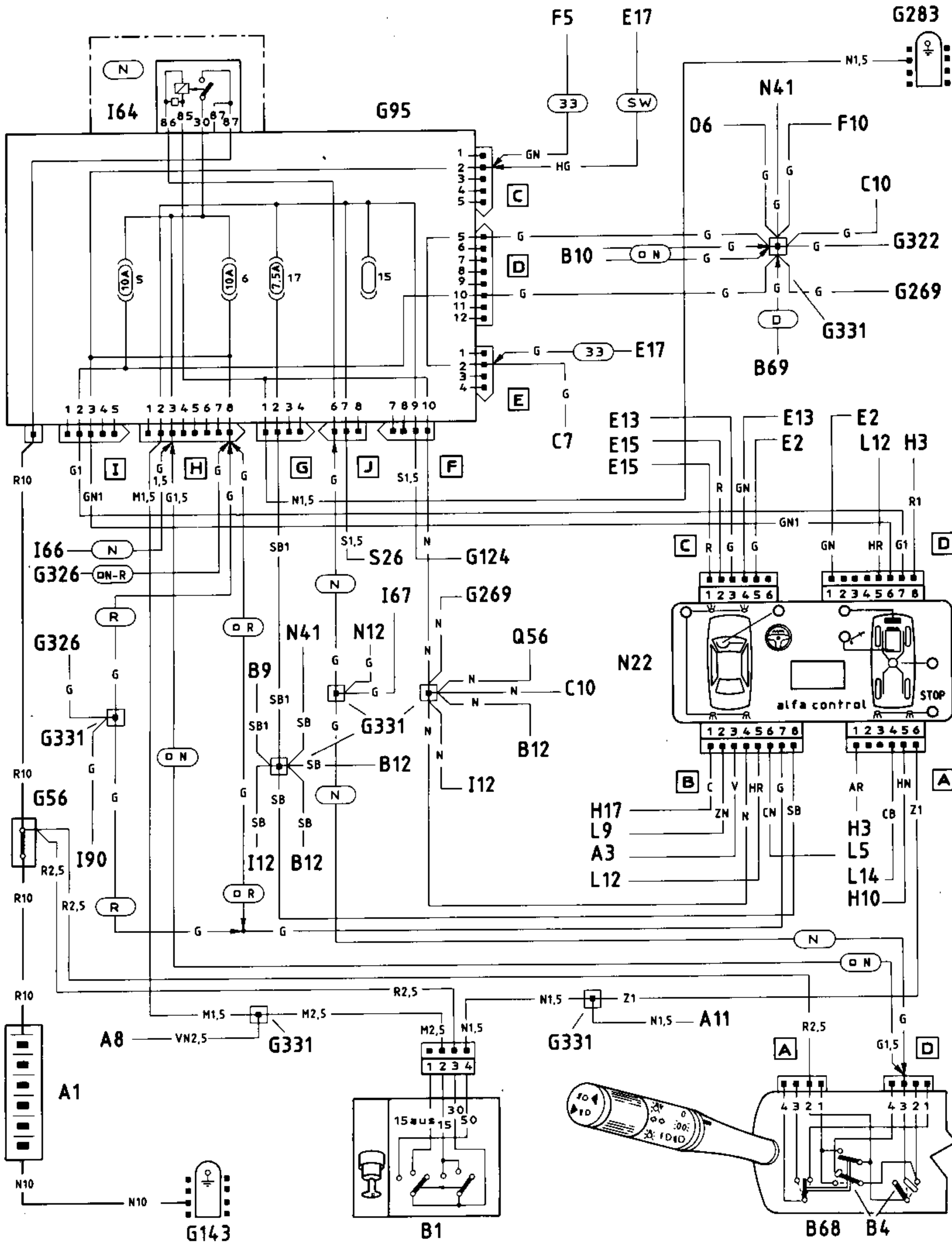
## CIGAR LIGHTER (excluding AUSTRALIA)



CIGAR LIGHTER (for AUSTRALIA)

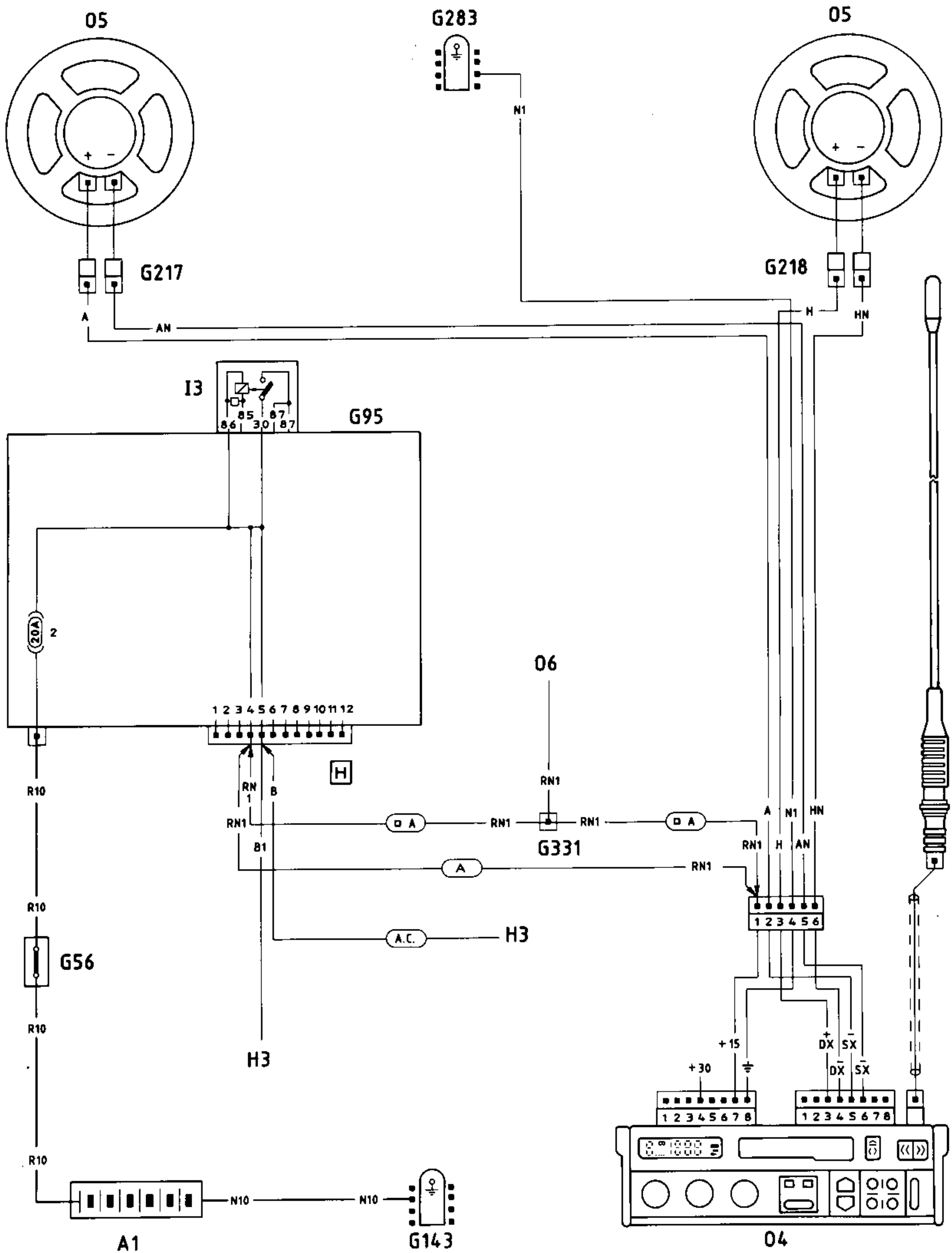


ALFA CONTROL



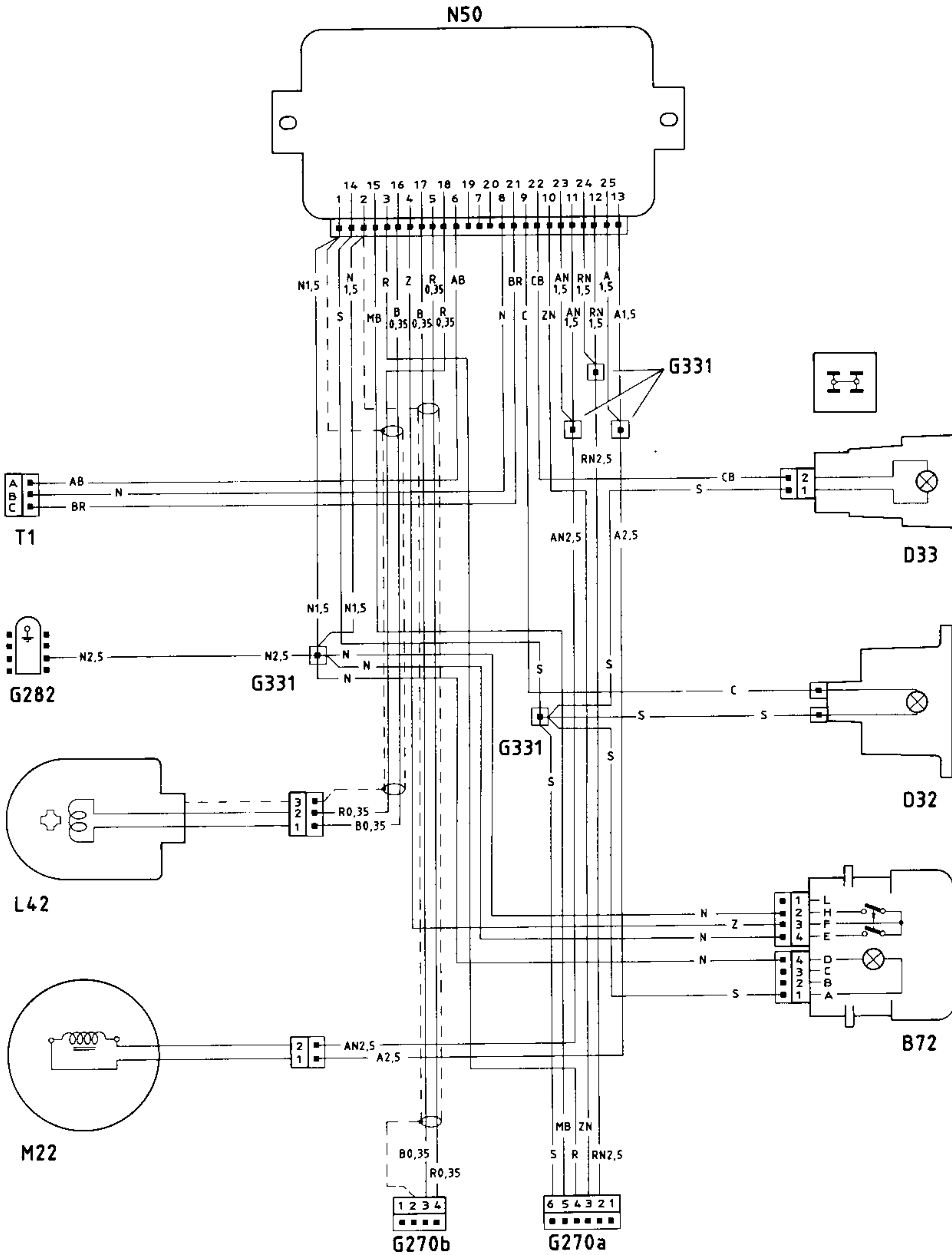
WIRING DIAGRAMS

RADIO



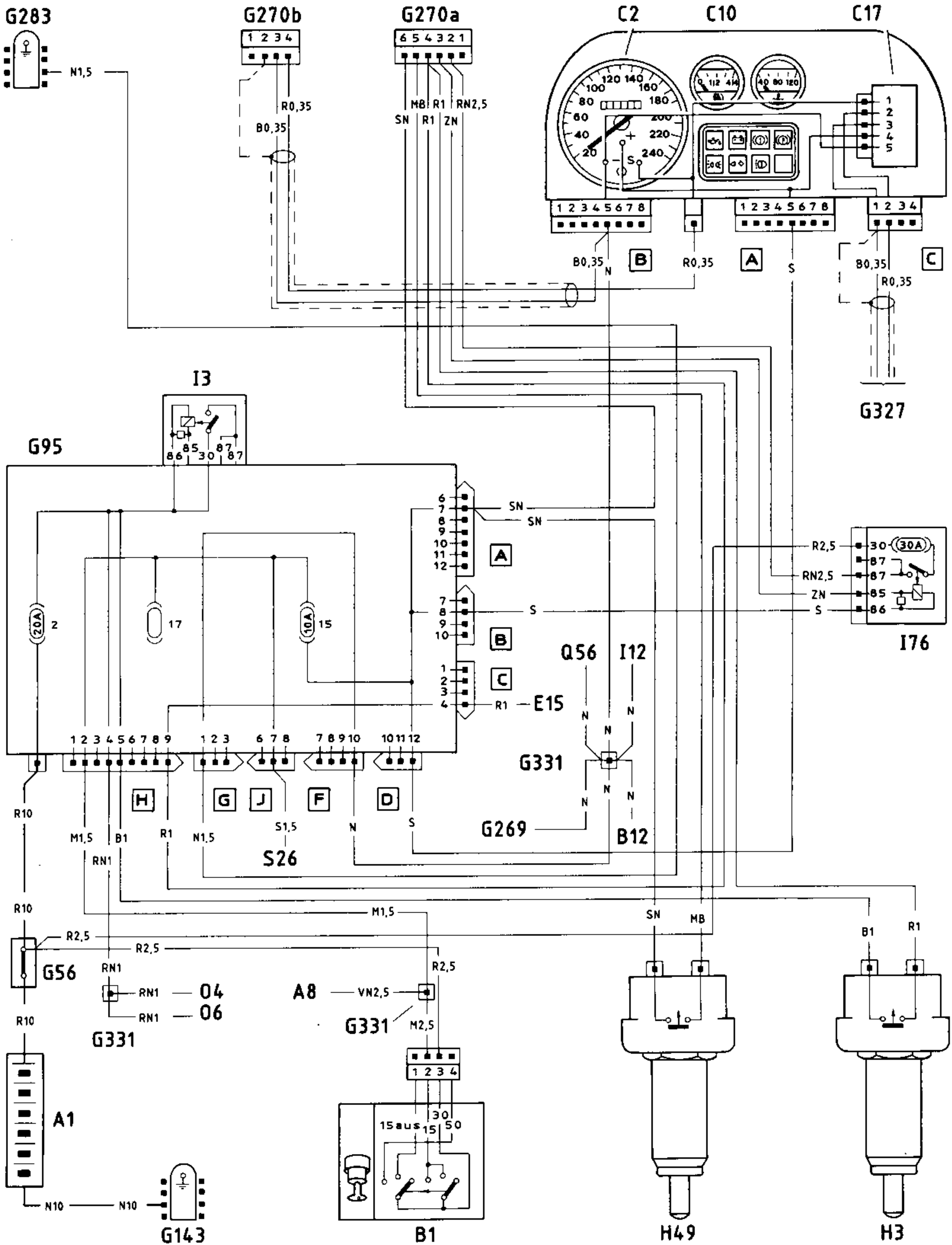
WIRING DIAGRAMS

FOUR-WHEEL DRIVE (Diagram A)



WIRING DIAGRAMS

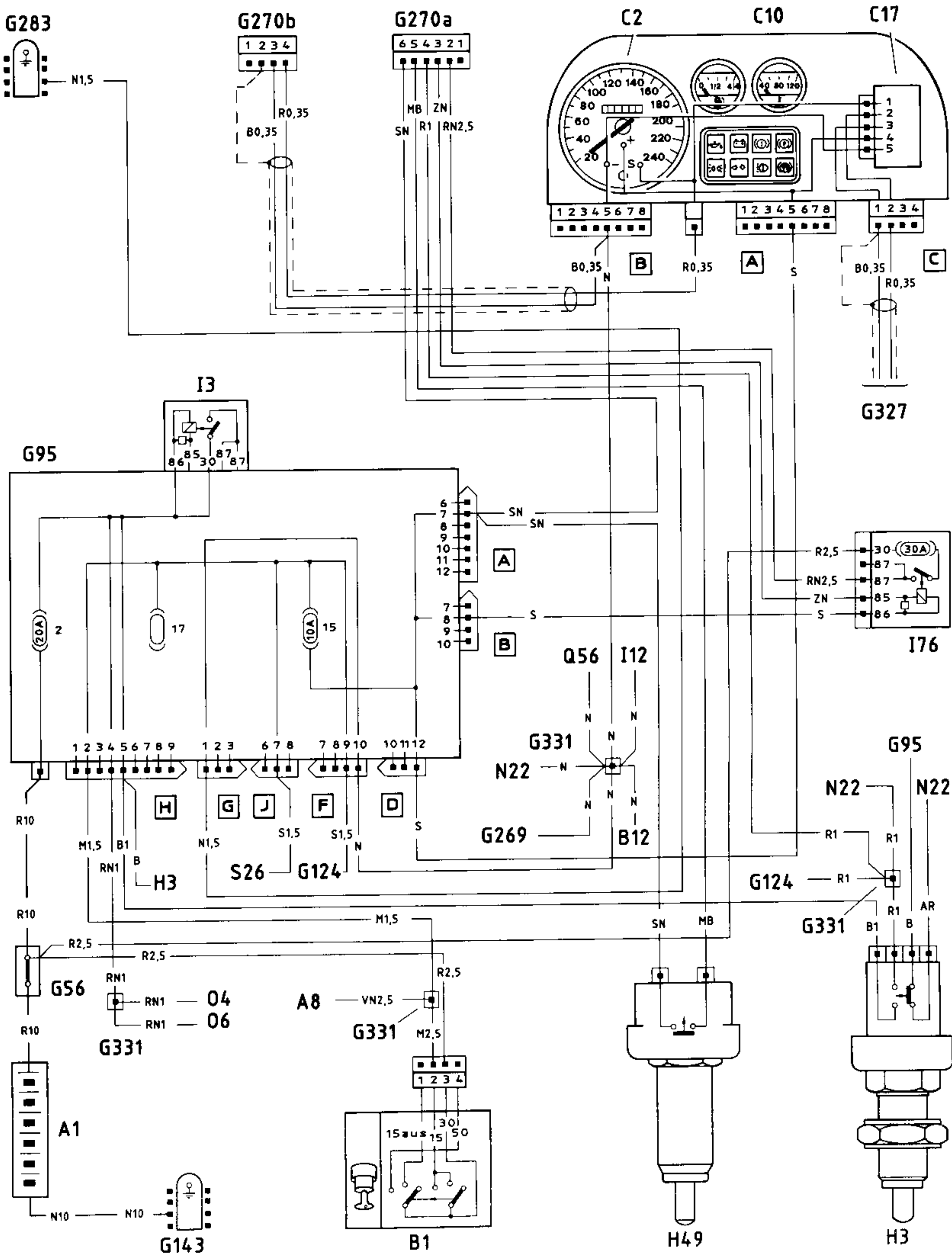
FOUR-WHEEL DRIVE (versions not equipped with ALFA CONTROL) (Diagram B)





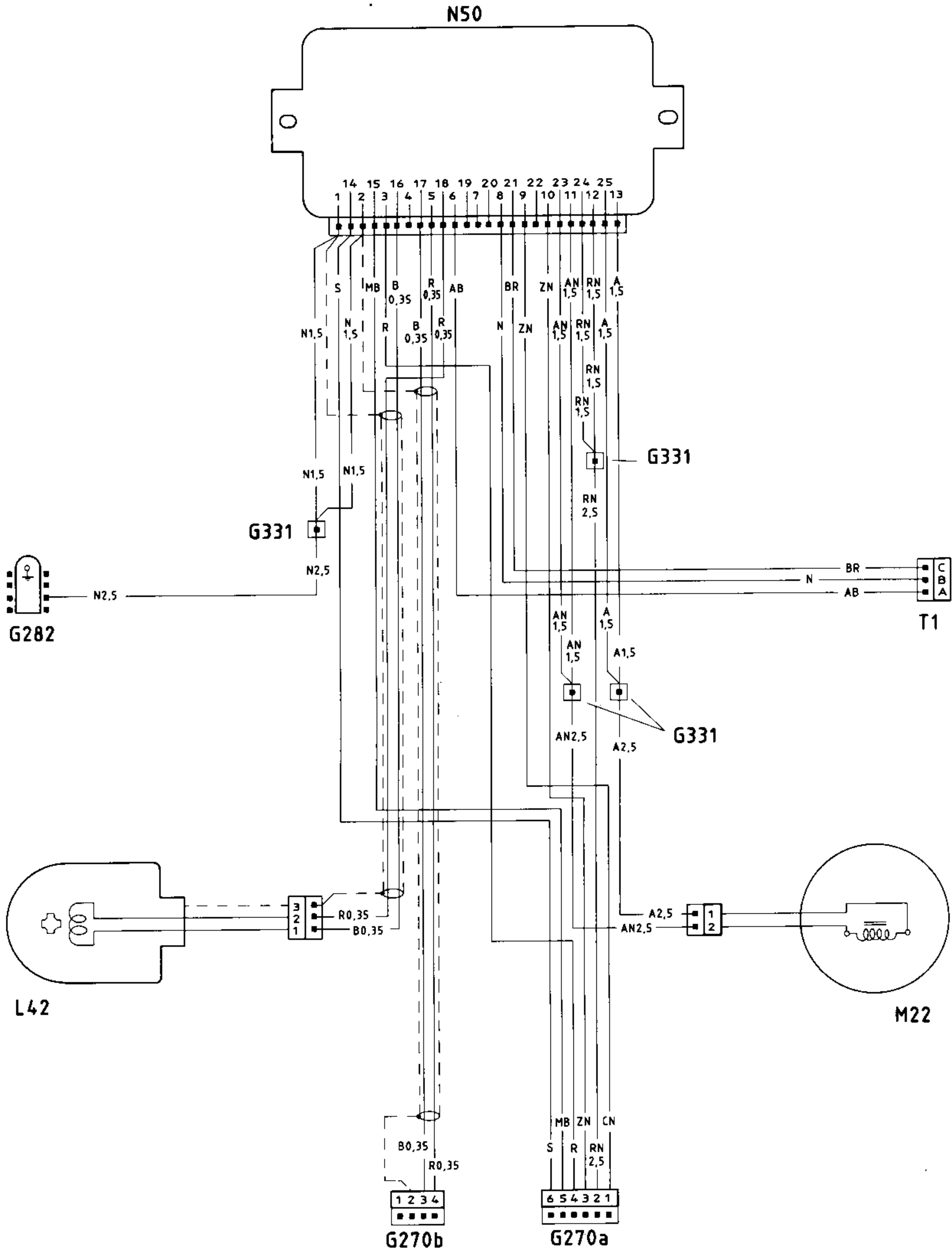
# WIRING DIAGRAMS

## FOUR-WHEEL DRIVE (versions equipped with ALFA CONTROL) (Diagram B)



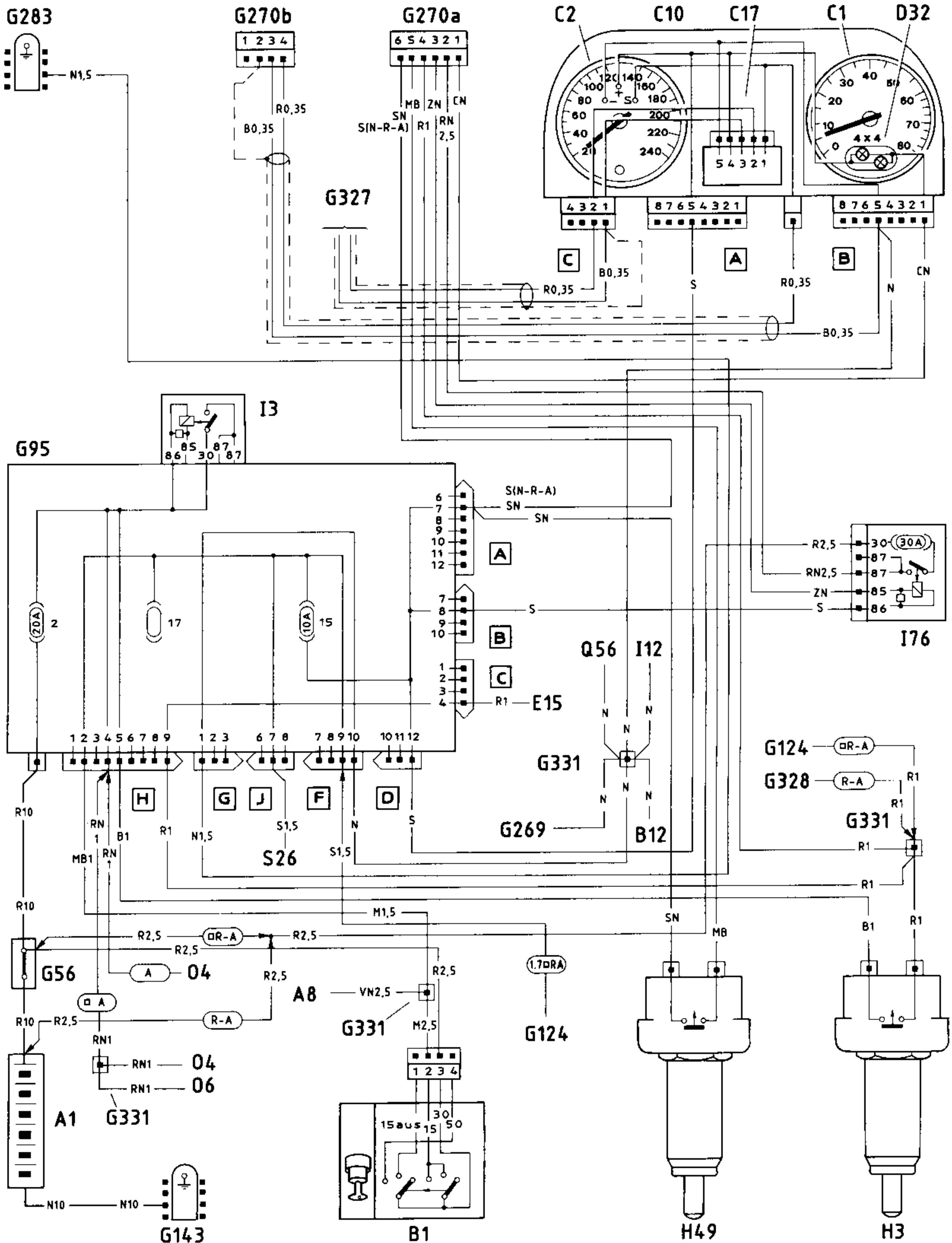
WIRING DIAGRAMS

PERMANENT FOUR-WHEEL DRIVE (Diagram A)



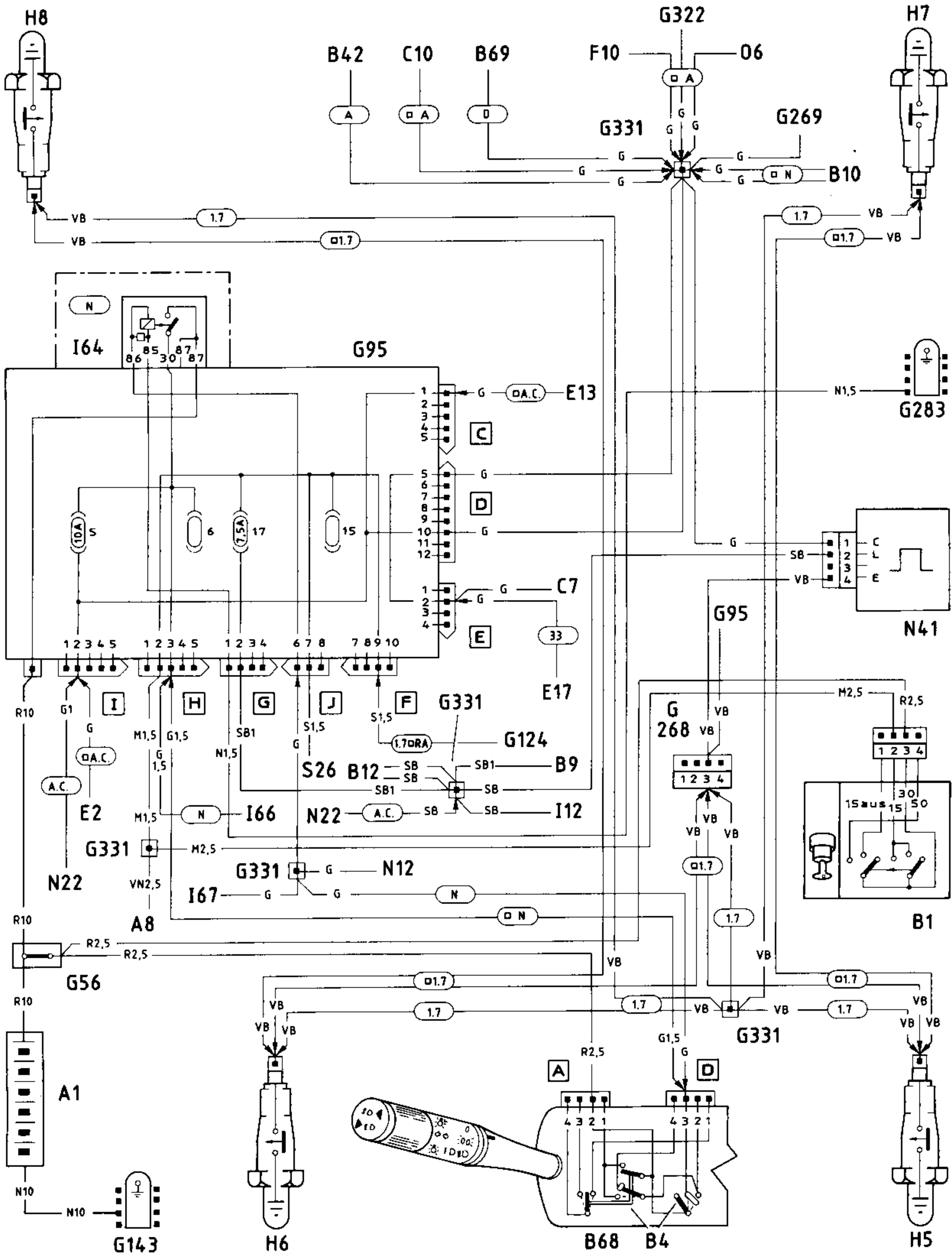
# WIRING DIAGRAMS

## PERMANENT FOUR-WHEEL DRIVE (Diagram B)

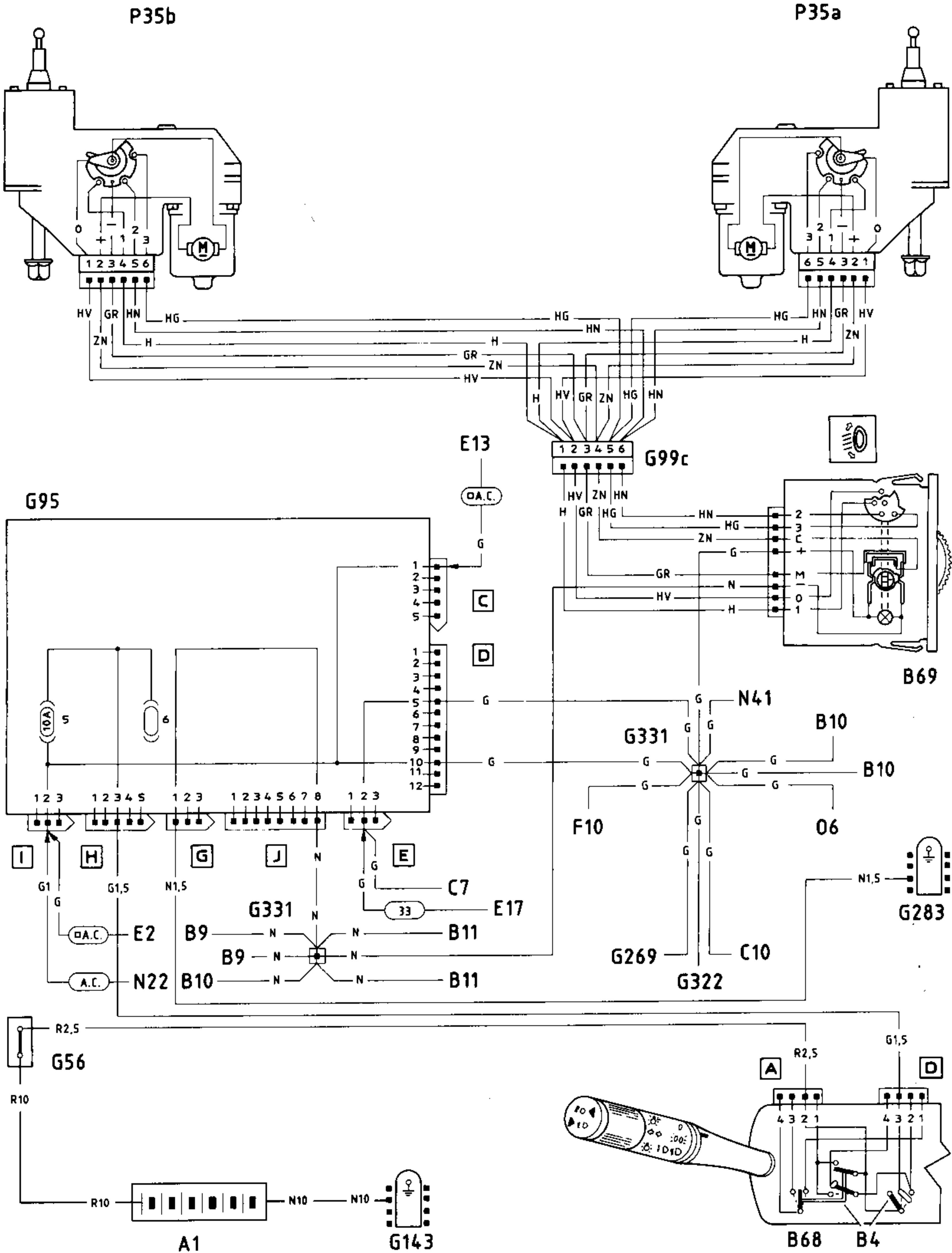


WIRING DIAGRAMS

"LIGHTS ON" SIGNAL

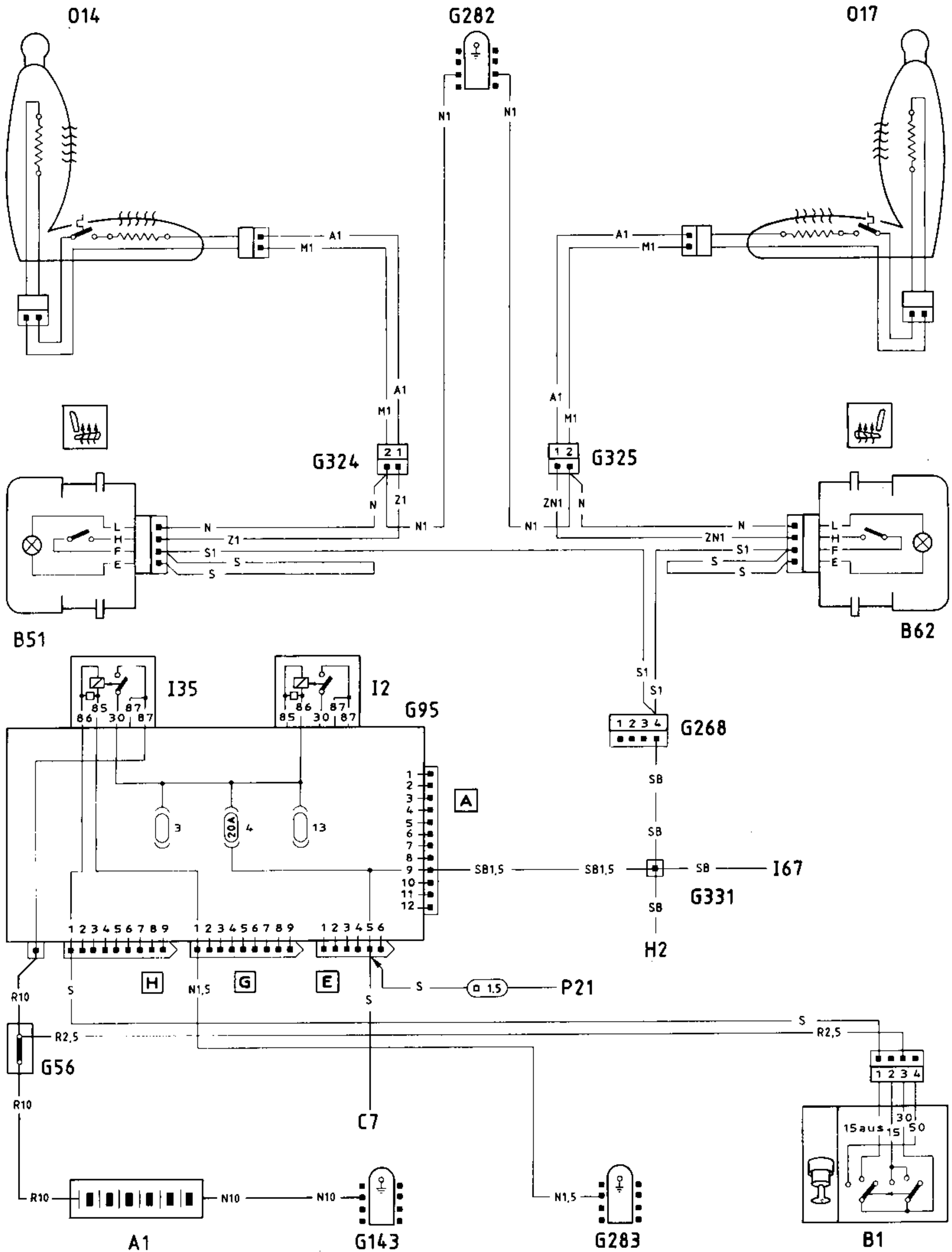


HEADLIGHT ADJUSTMENT (for GERMANY)



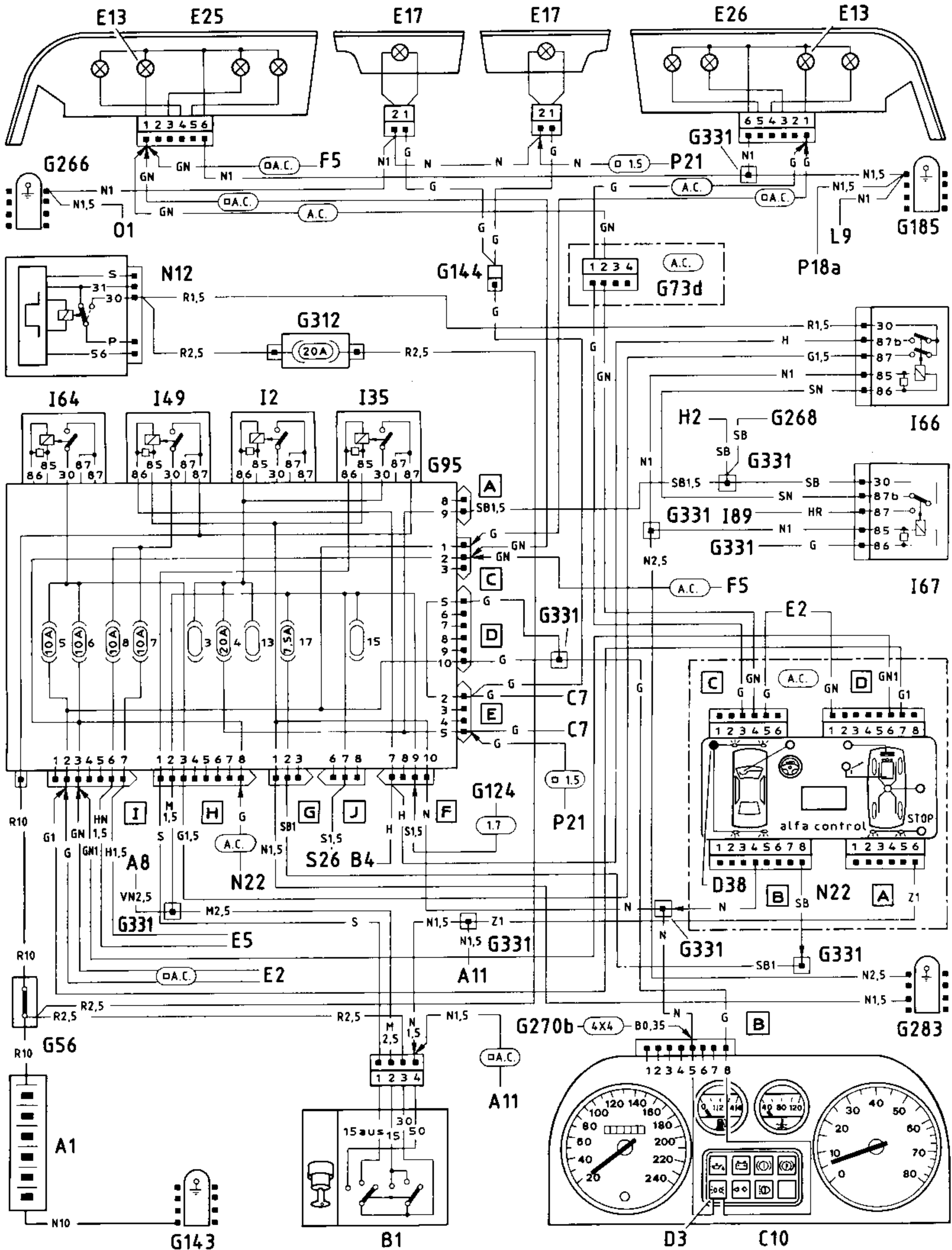
WIRING DIAGRAMS

HEATED FRONT SEATS (for NORTH EUROPEAN COUNTRIES)



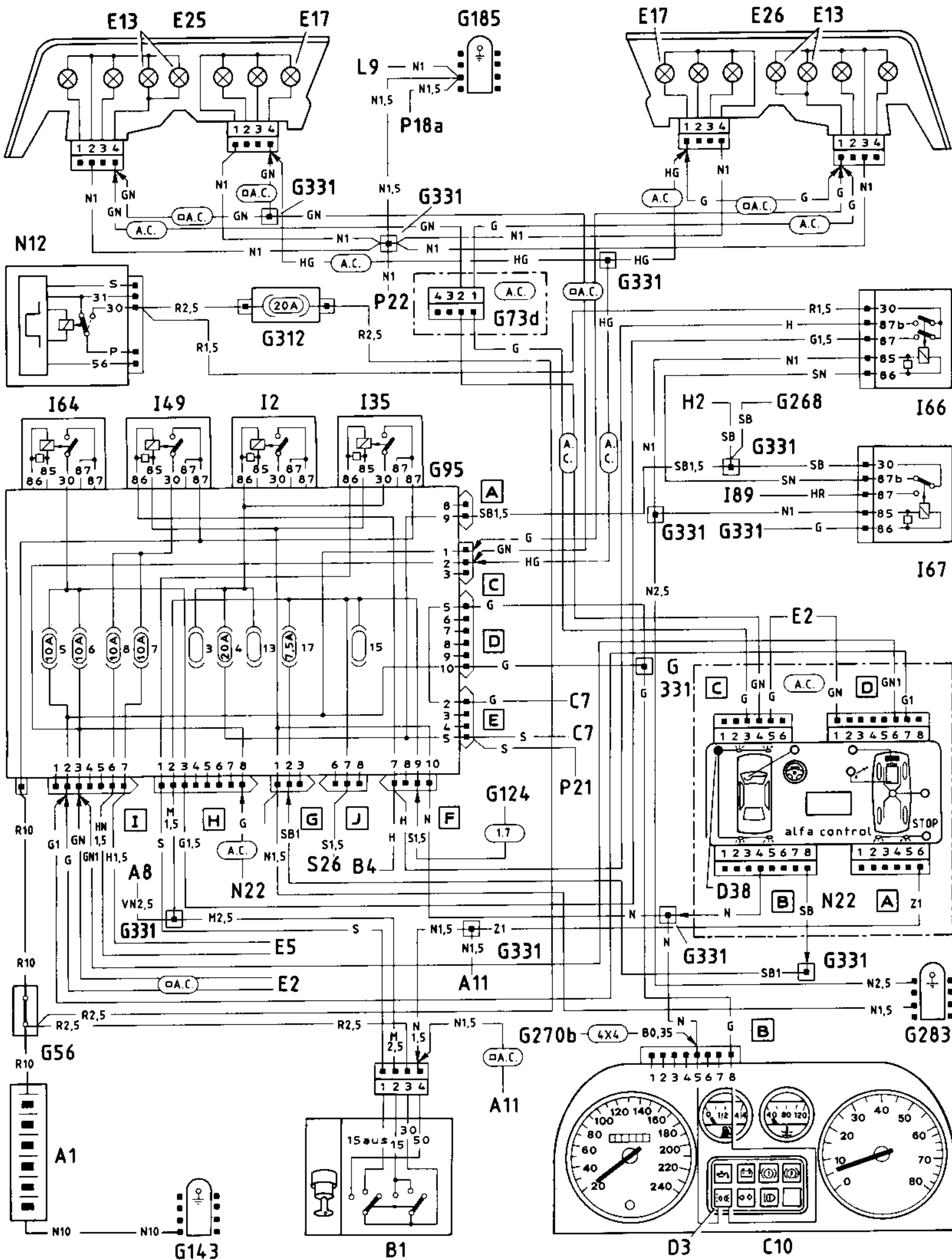


DAY LIGHT (Rear part) (33 models) (for NORTH EUROPEAN COUNTRIES)



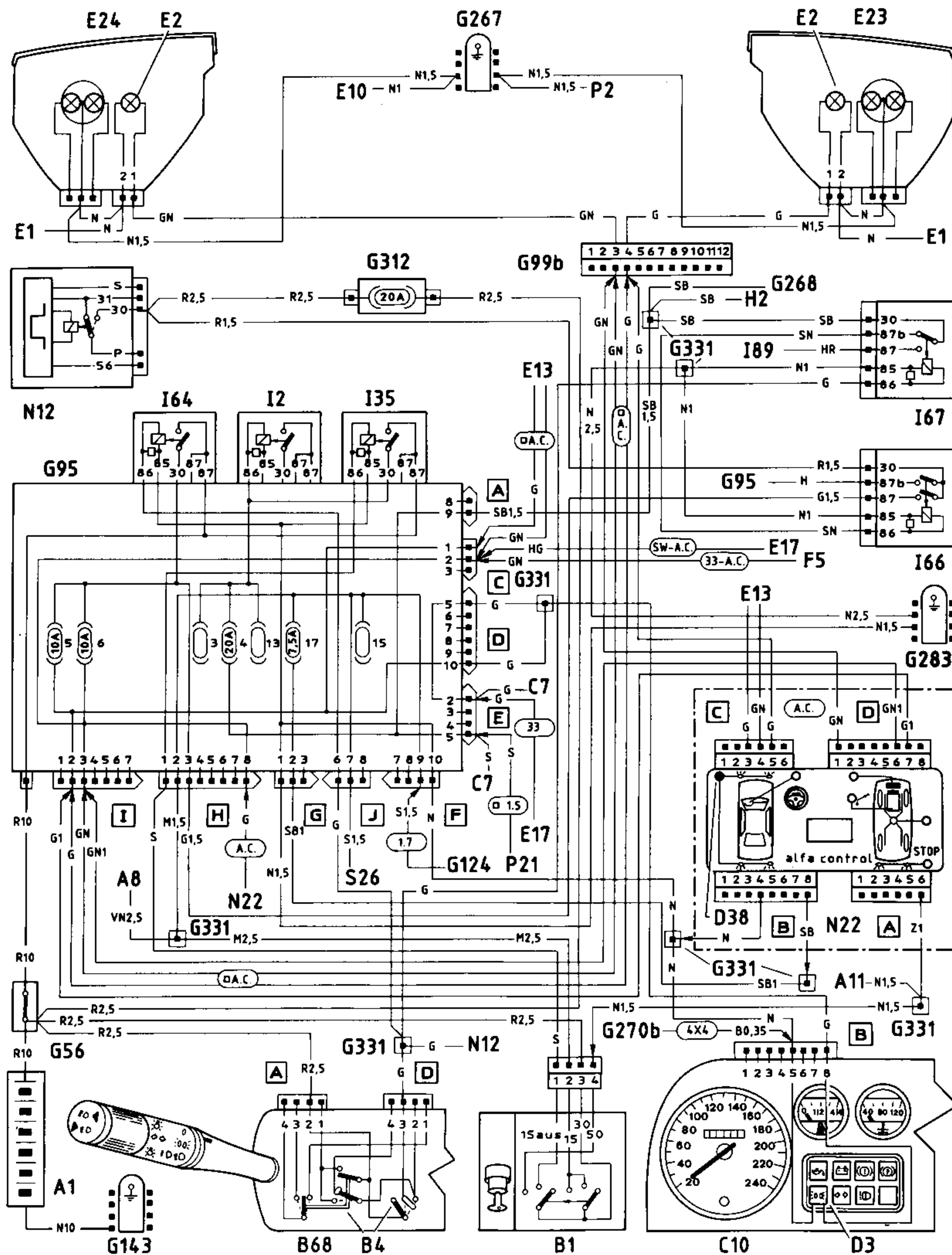


DAY LIGHT (Rear part) (SPORT WAGON models) (for NORTH EUROPEAN COUNTRIES)

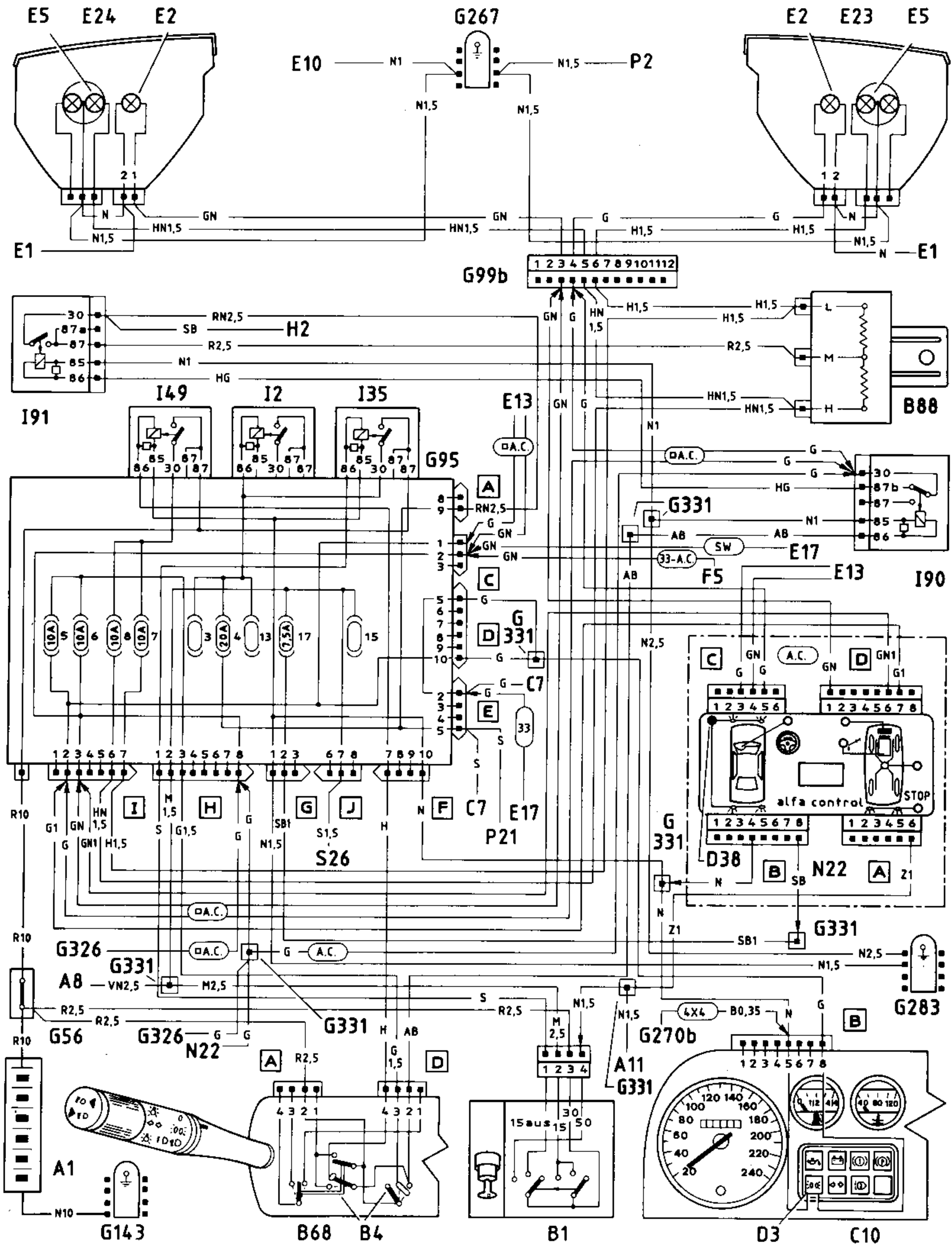




SIDELIGHTS (Front part) (for NORTH EUROPEAN COUNTRIES)

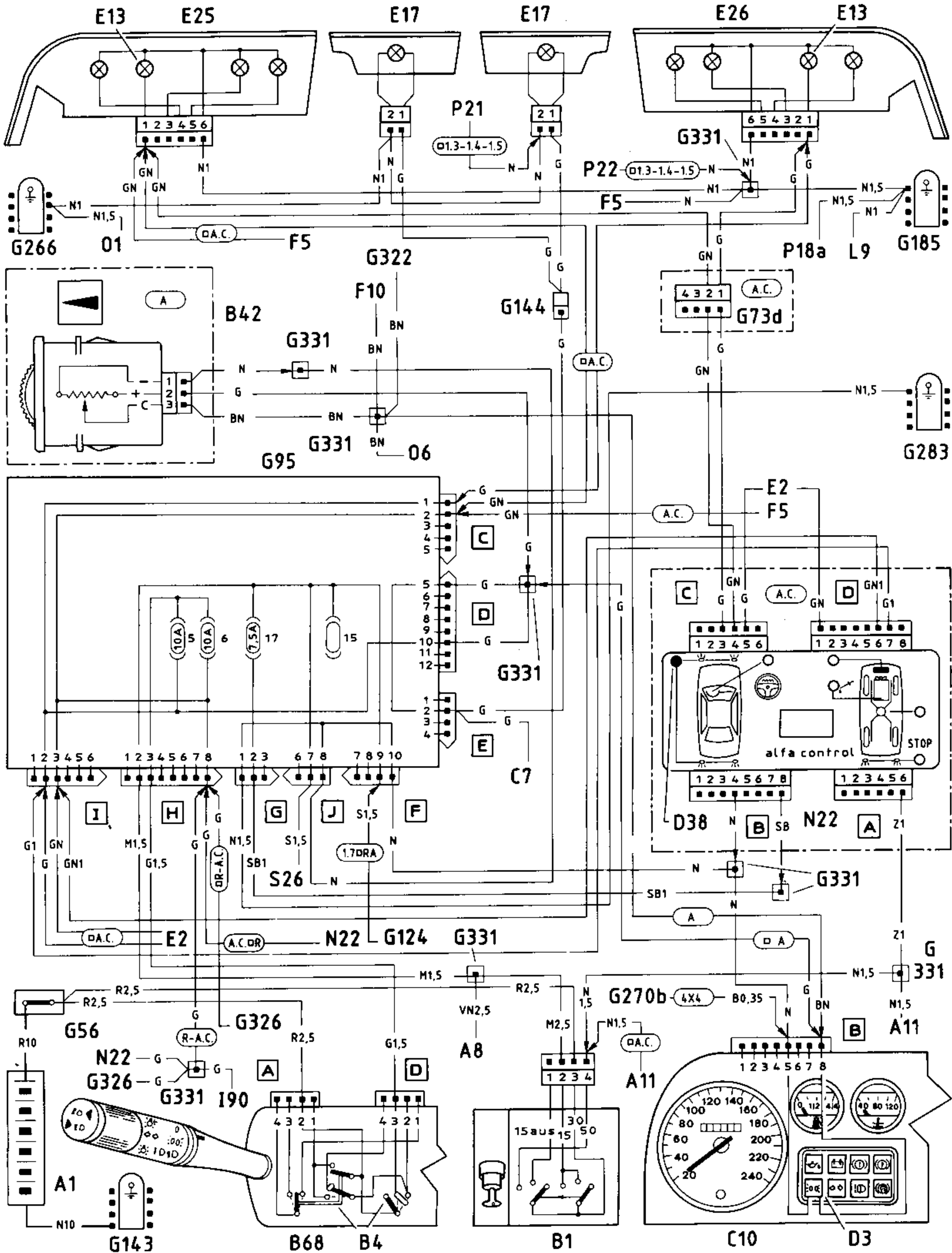


**SIDELIGHTS (Front part) - DIMMED DIPPED HEADLIGHTS**  
*(for UNITED KINGDOM/IRELAND)*

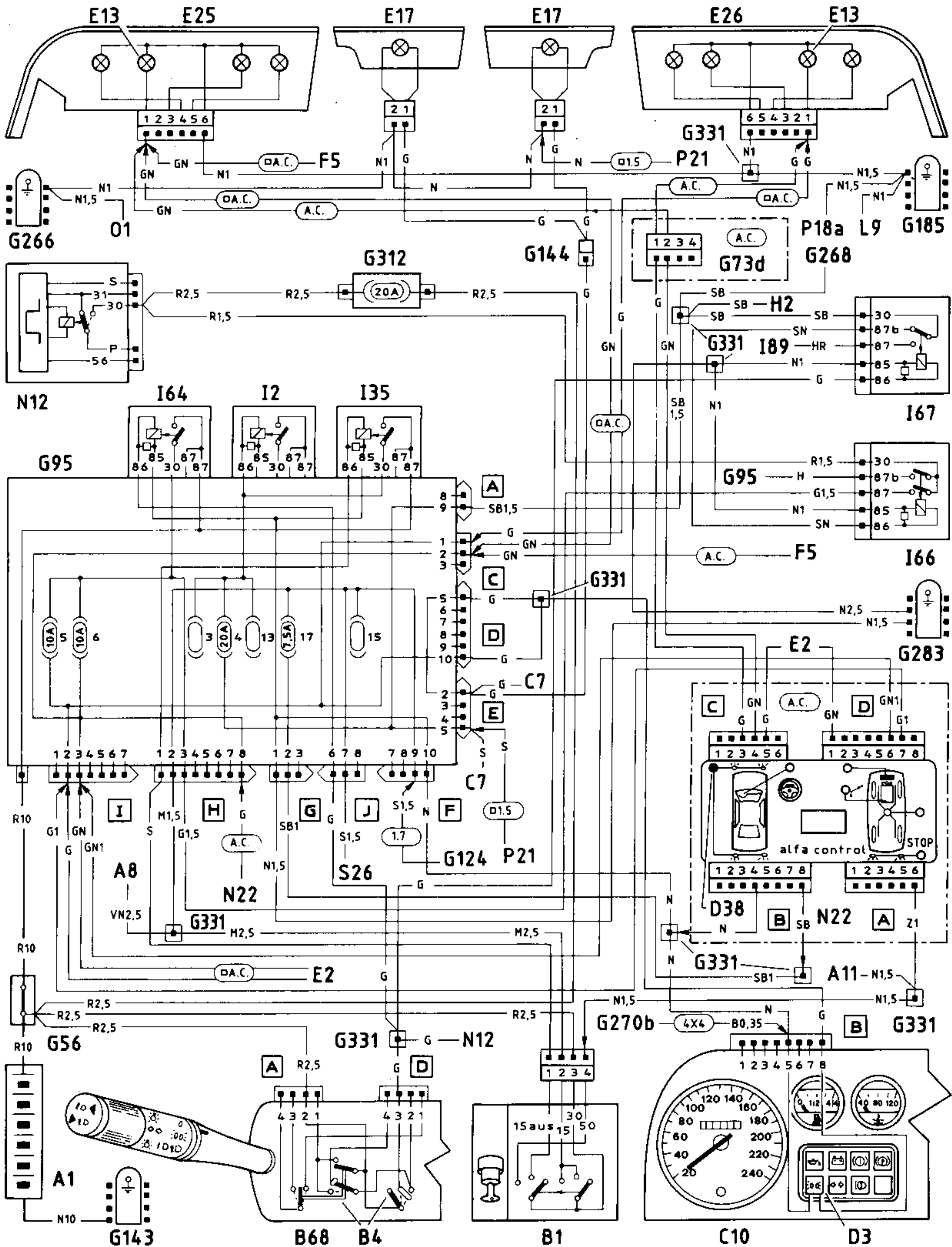


WIRING DIAGRAMS

SIDELIGHTS (Rear part) - NUMBERPLATE LIGHTS  
(33 models) (excluding NORTH EUROPEAN COUNTRIES)

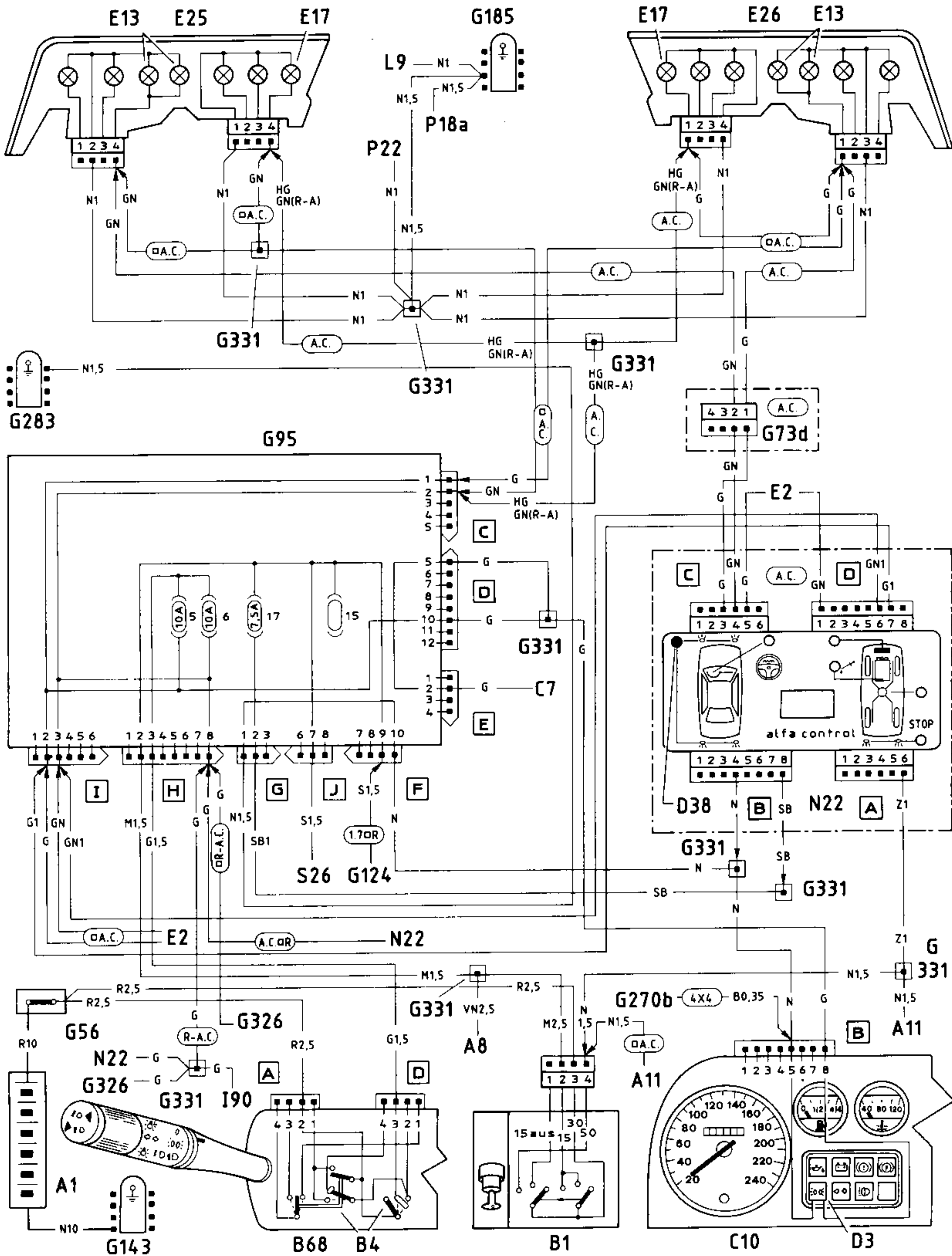


**SIDELIGHTS (Rear part) - NUMBERPLATE LIGHTS**  
*(33 models) (for NORTH EUROPEAN COUNTRIES)*

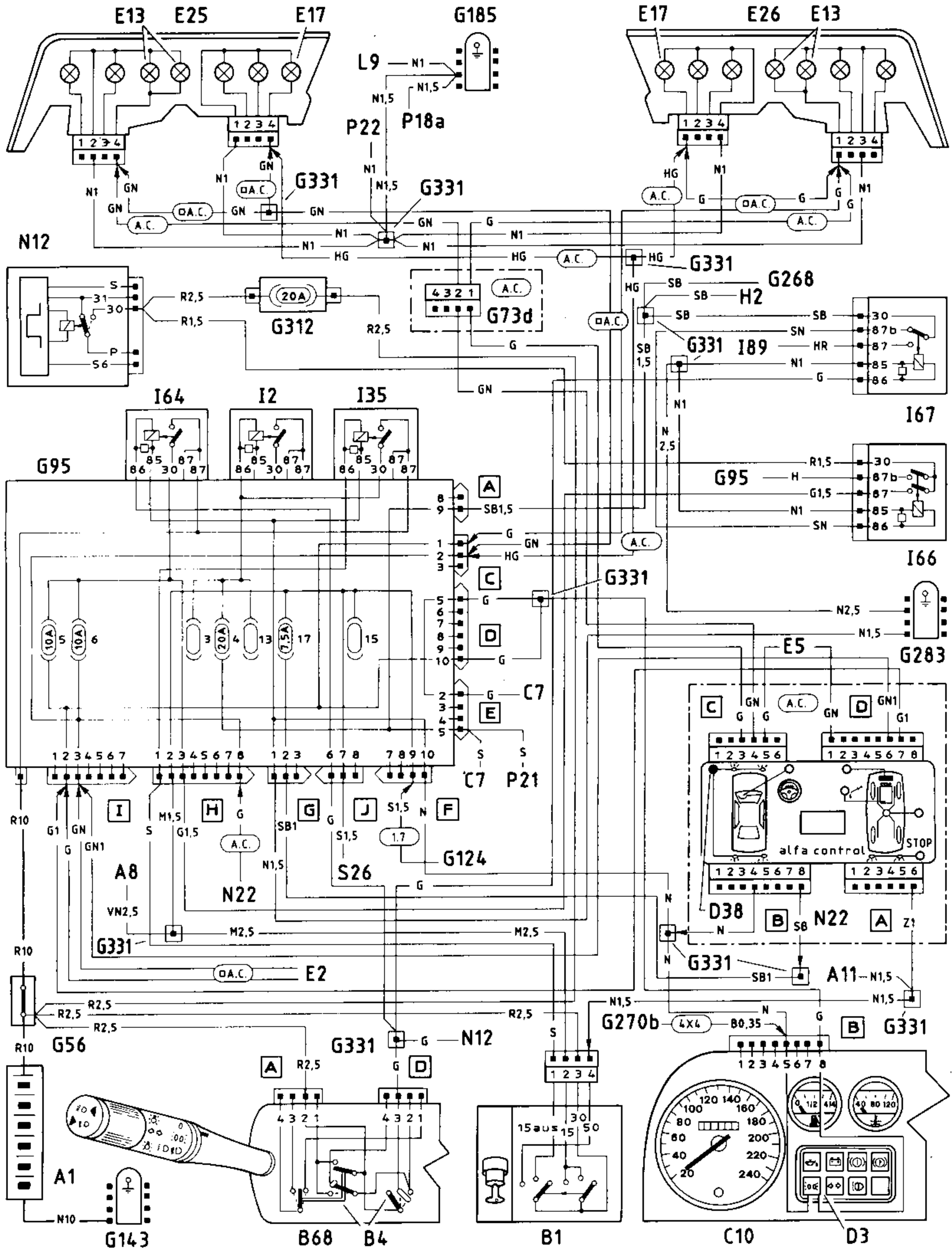


# WIRING DIAGRAMS

## SIDELIGHTS (Rear part) - NUMBERPLATE LIGHTS (SPORT WAGON models) (excluding NORTH EUROPEAN COUNTRIES)



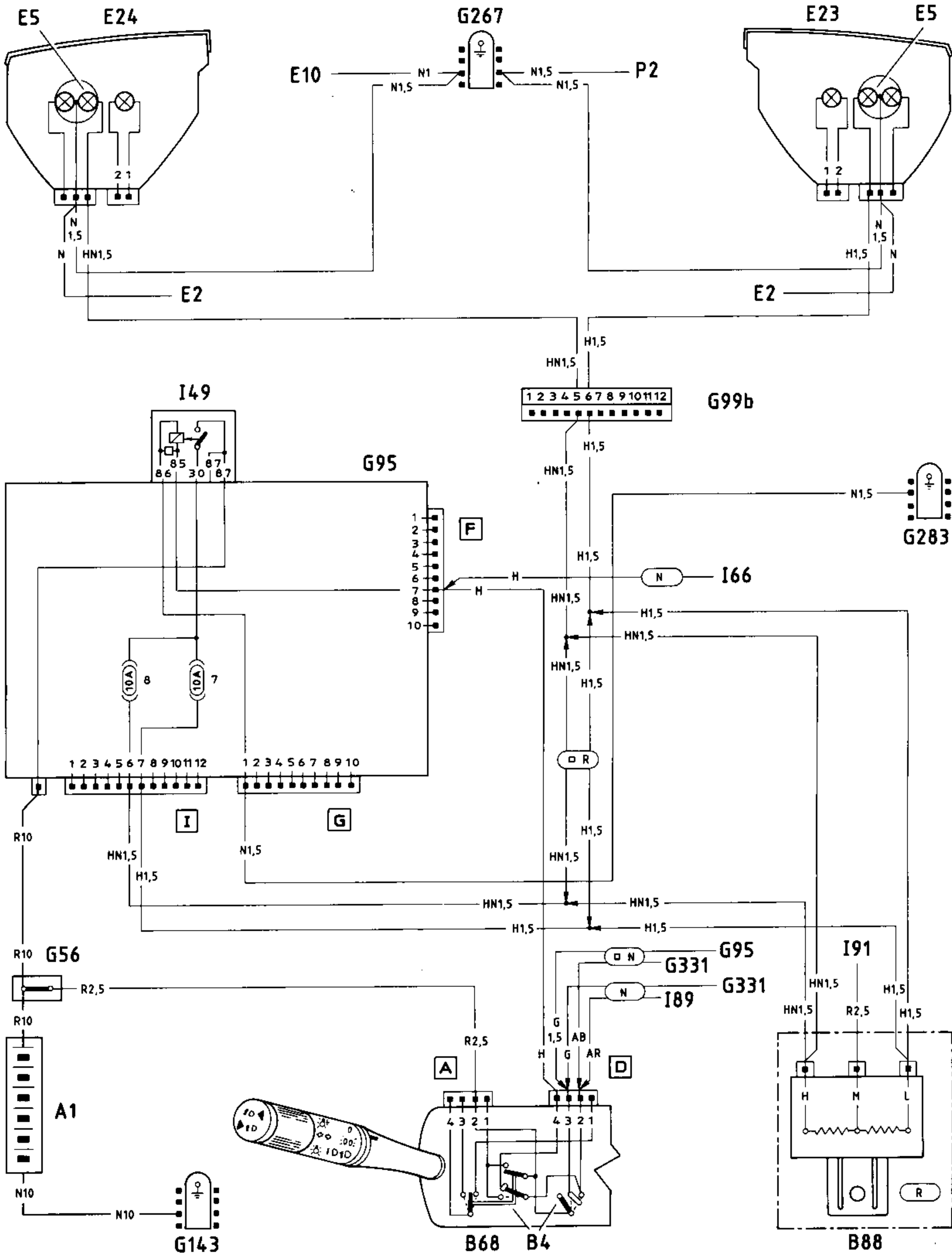
**SIDELIGHTS (Rear part) - NUMBERPLATE LIGHTS**  
**(SPORT WAGON models) (for NORTH EUROPEAN COUNTRIES)**



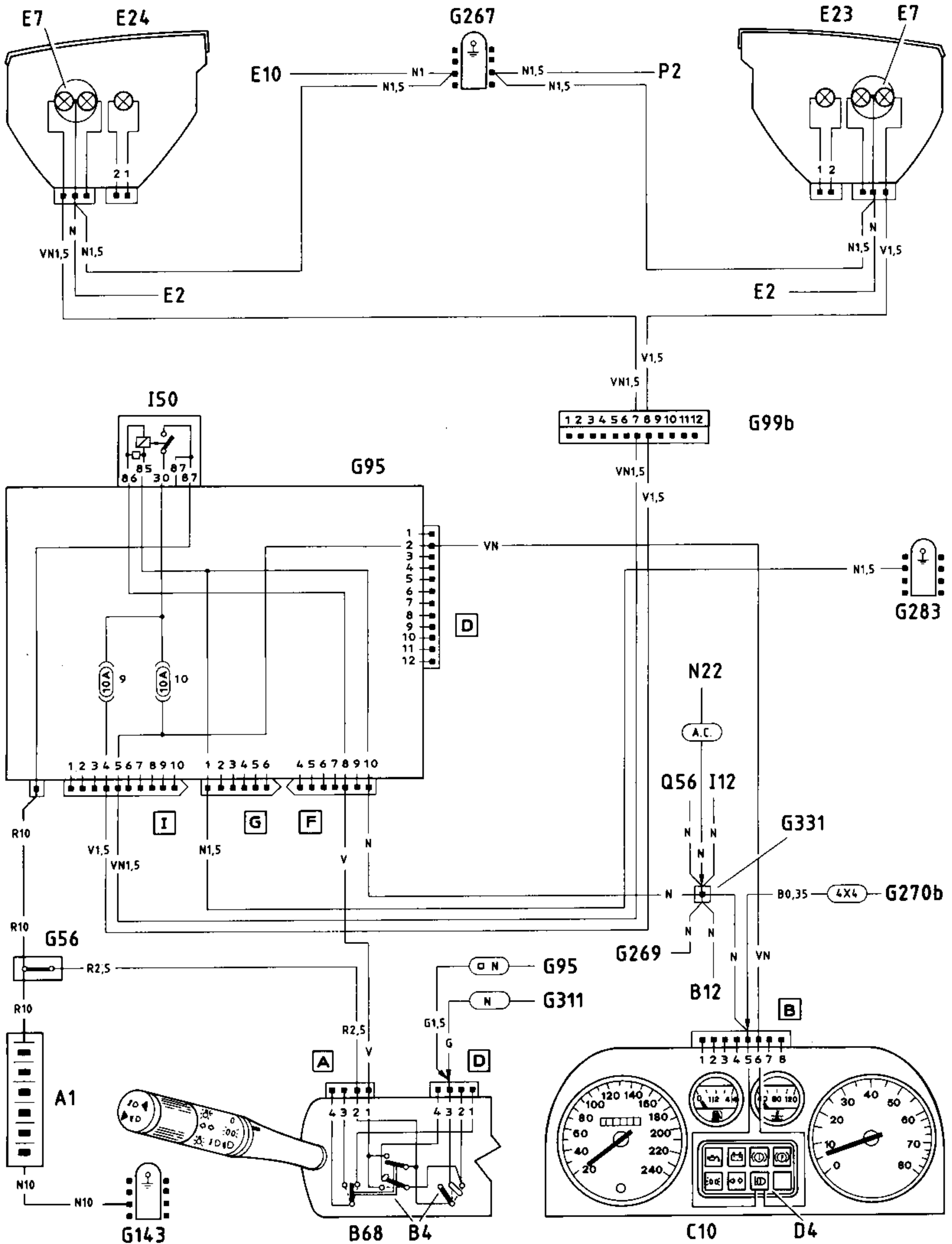


# WIRING DIAGRAMS

## DIPPED-BEAM HEADLIGHTS

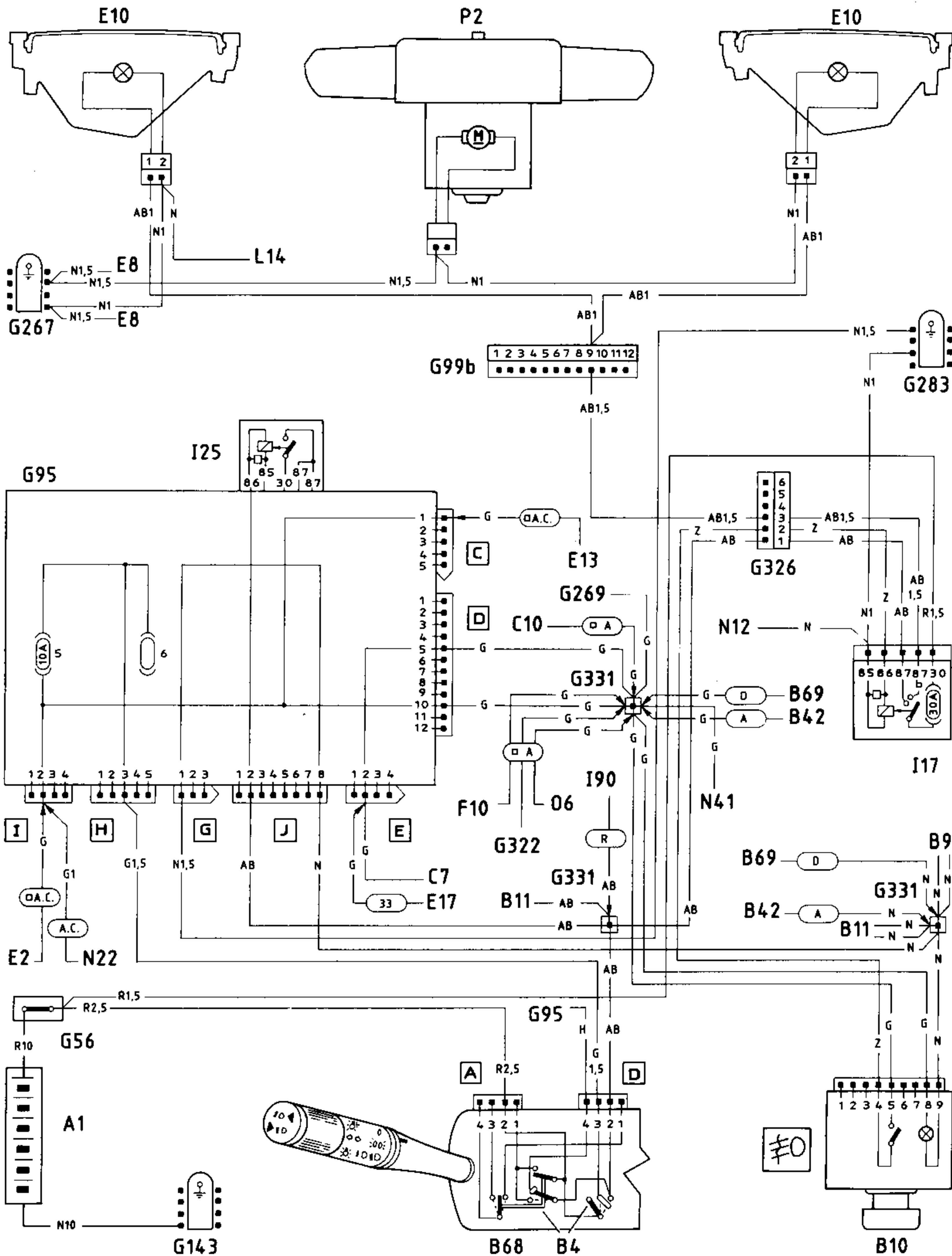


MAIN-BEAM HEADLIGHTS



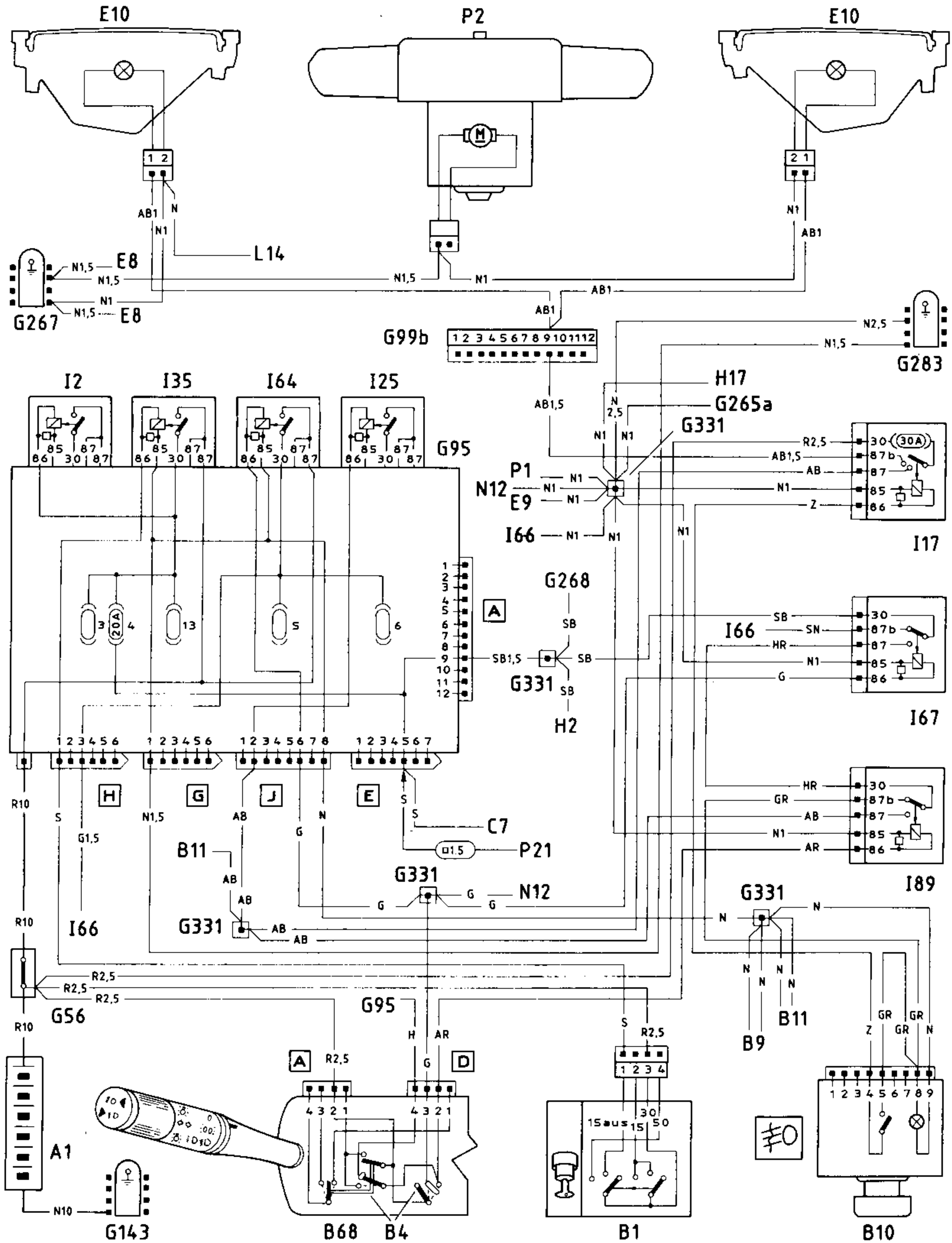
WIRING DIAGRAMS

FRONT FOGLIGHTS (excluding NORTH EUROPEAN COUNTRIES)



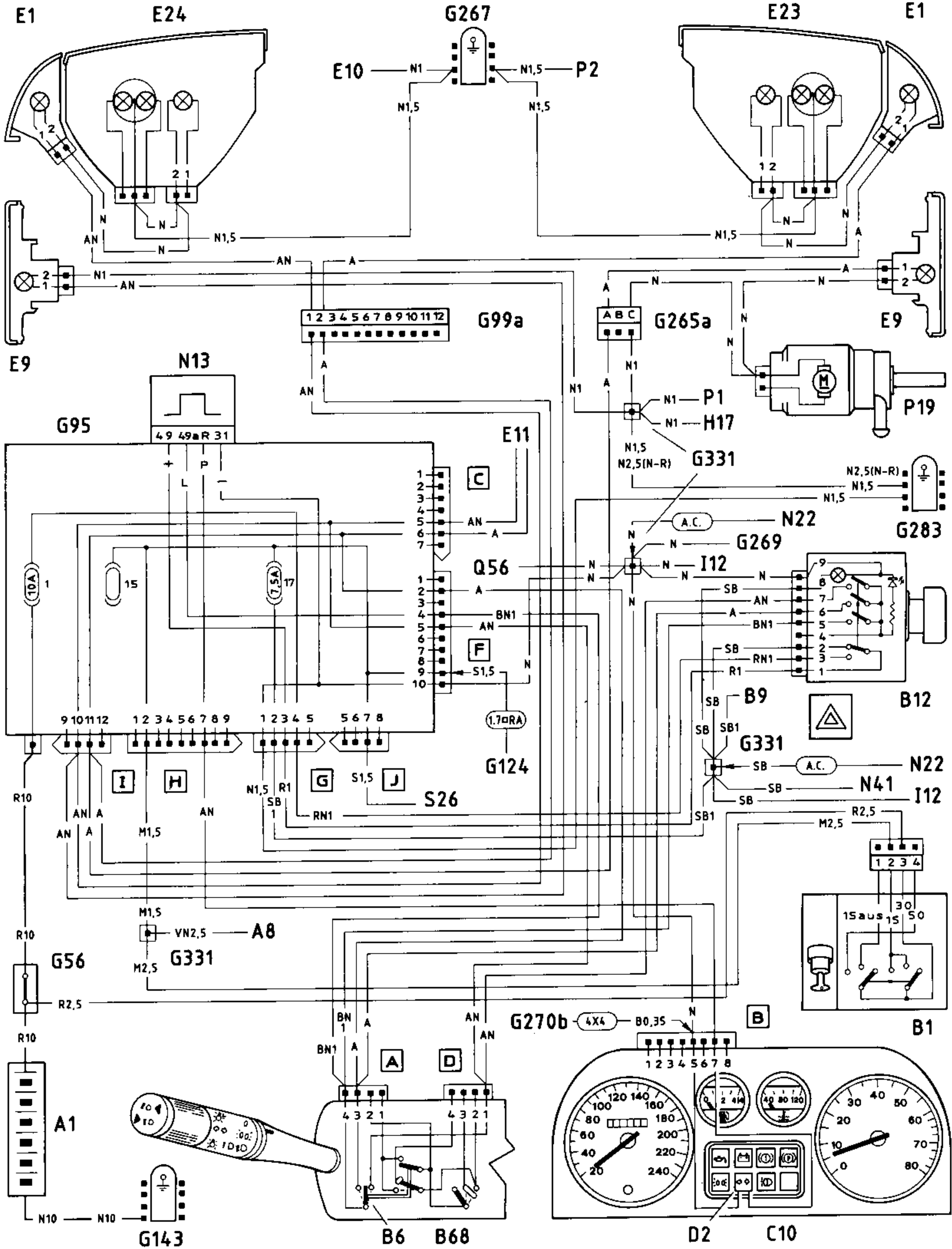
WIRING DIAGRAMS

FRONT FOGLIGHTS (for NORTH EUROPEAN COUNTRIES)



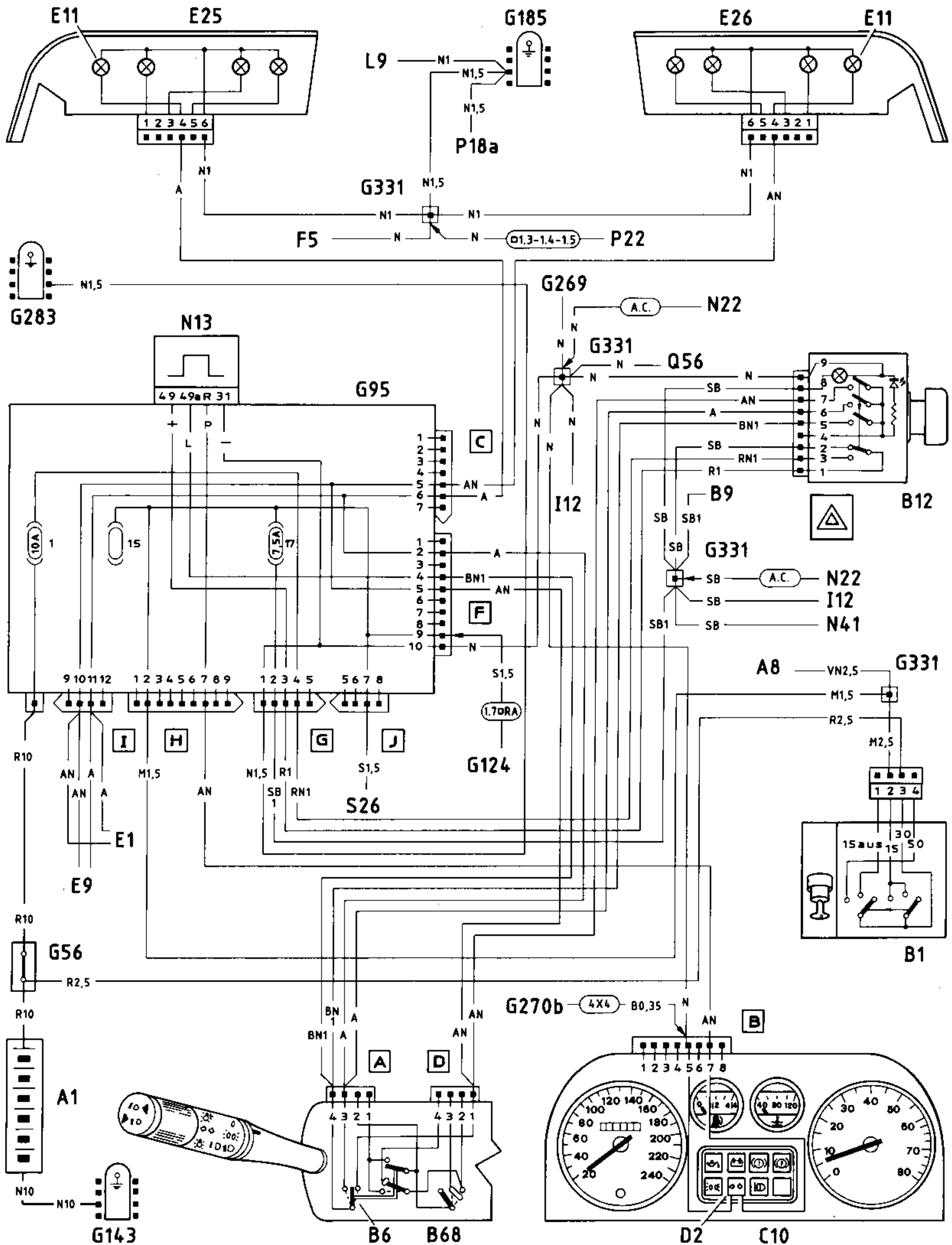
WIRING DIAGRAMS

DIRECTION INDICATORS - HAZARD WARNING LIGHTS (Front part)

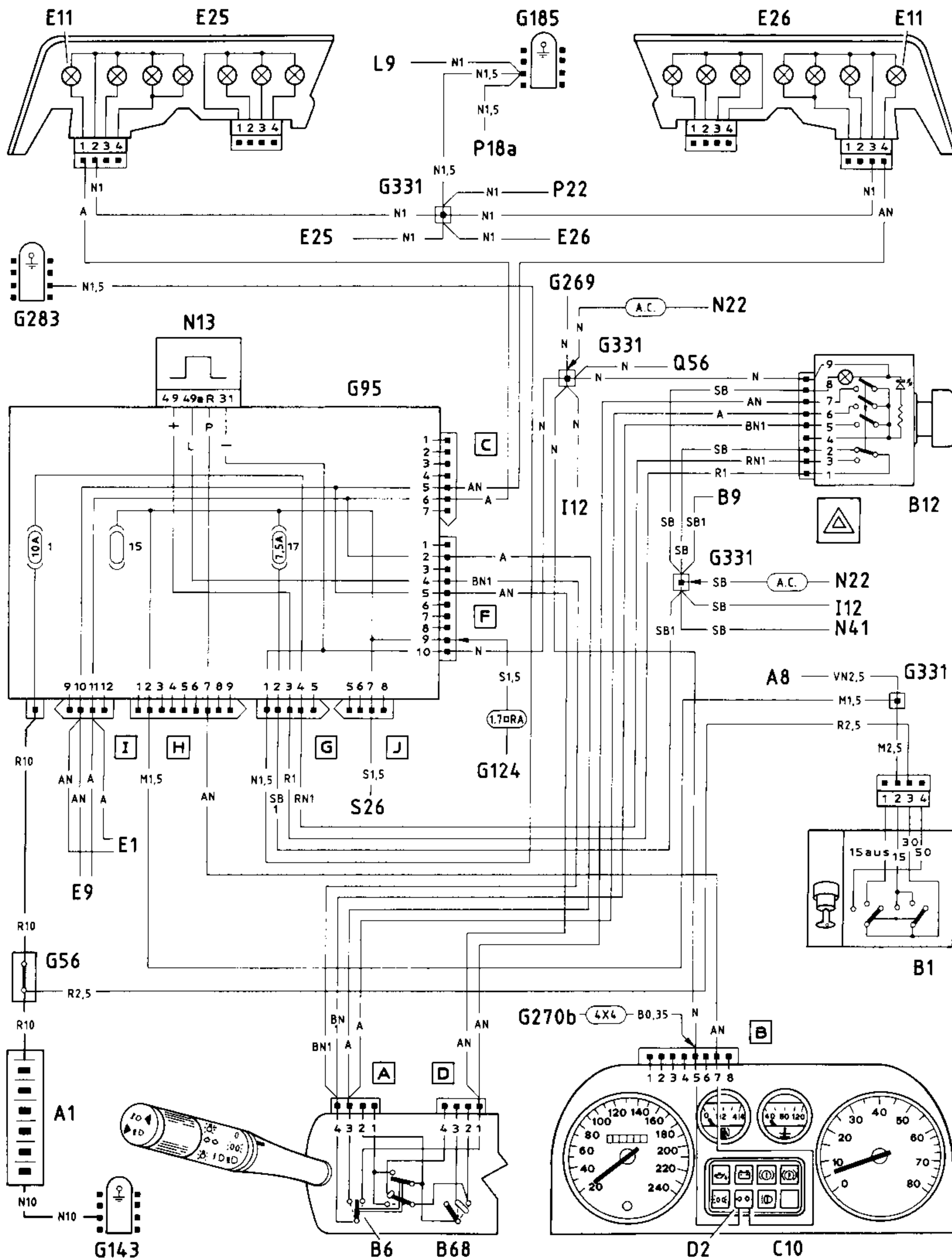


WIRING DIAGRAMS

DIRECTION INDICATORS - HAZARD WARNING LIGHTS (Rear part) (33 models)

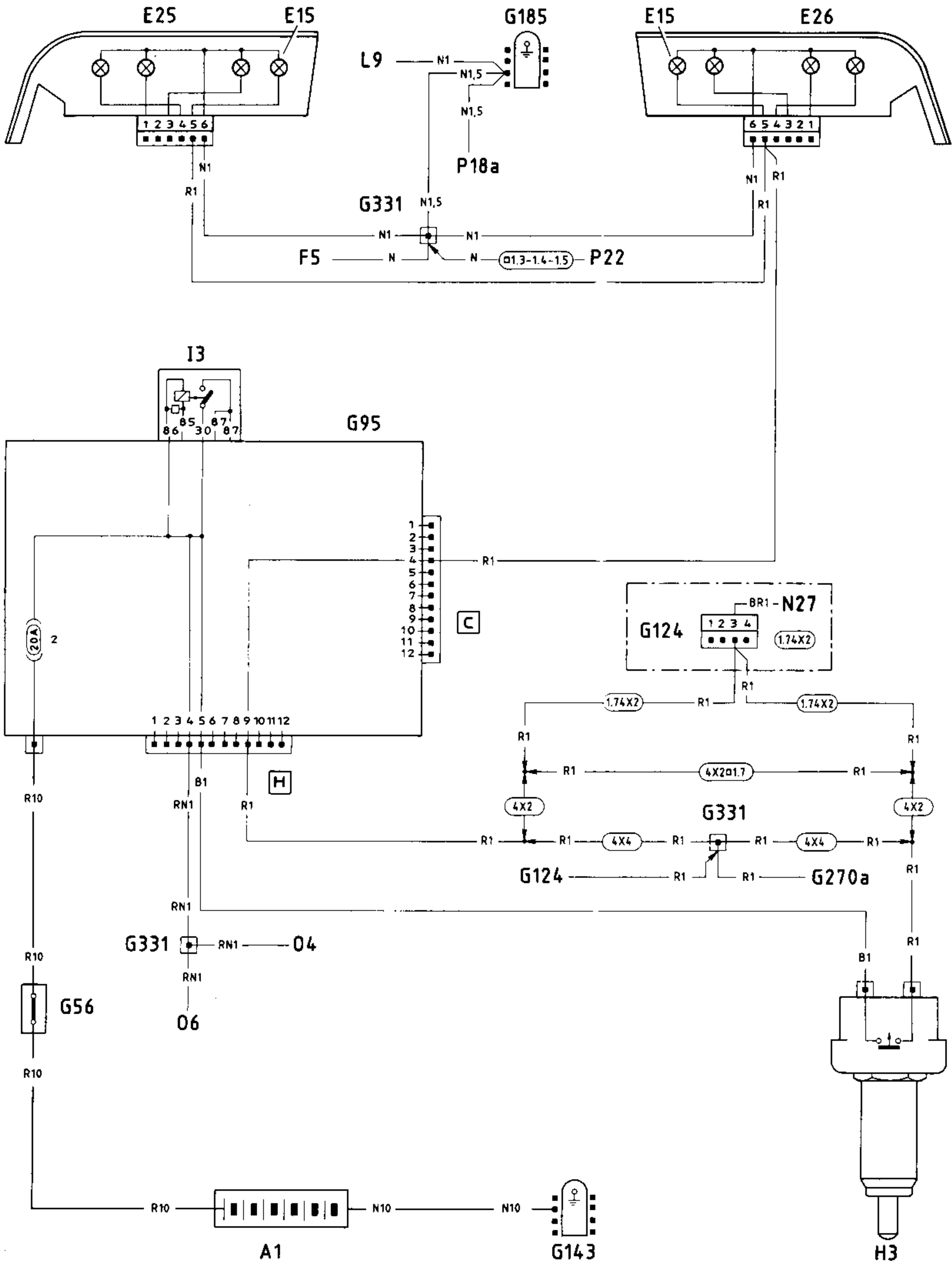


**DIRECTION INDICATORS - HAZARD WARNING LIGHTS (Rear part)**  
*(SPORT WAGON models)*



WIRING DIAGRAMS

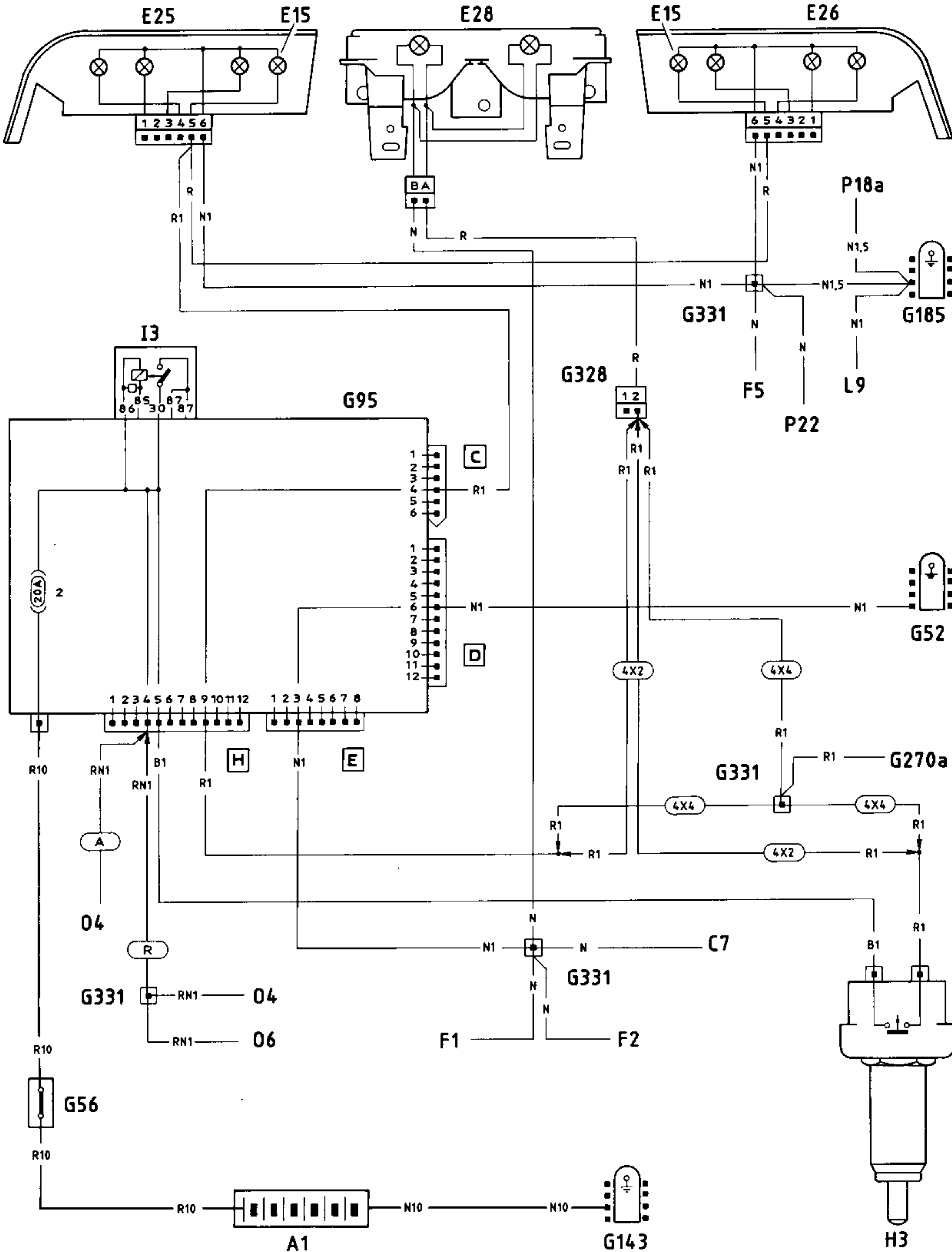
**BRAKE LIGHTS (33 models not equipped with ALFA CONTROL)  
(except for UNITED KINGDOM/IRELAND - AUSTRALIA)**





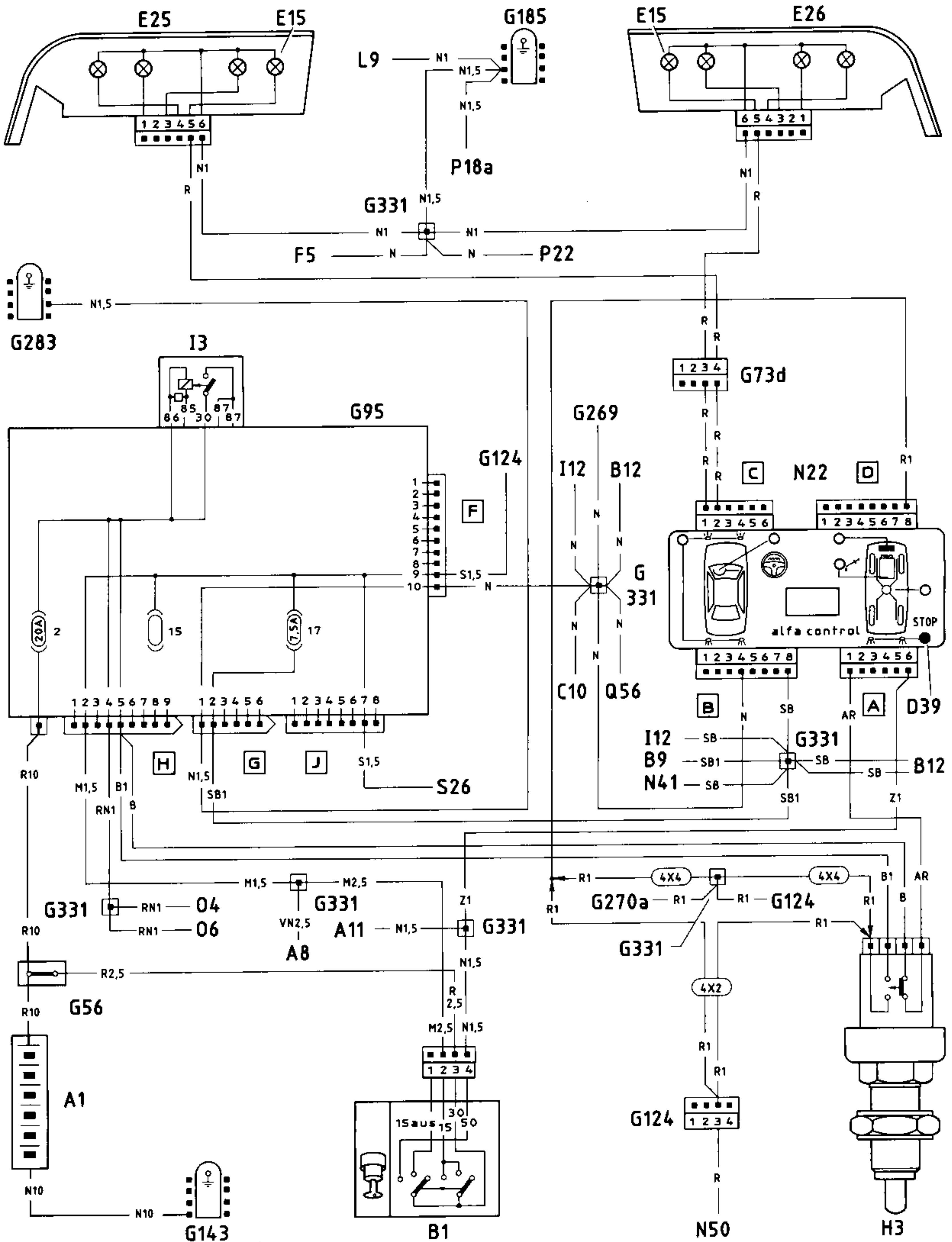
WIRING DIAGRAMS

**BRAKE LIGHTS (33 models not equipped with ALFA CONTROL)**  
**(for UNITED KINGDOM/IRELAND - AUSTRALIA)**



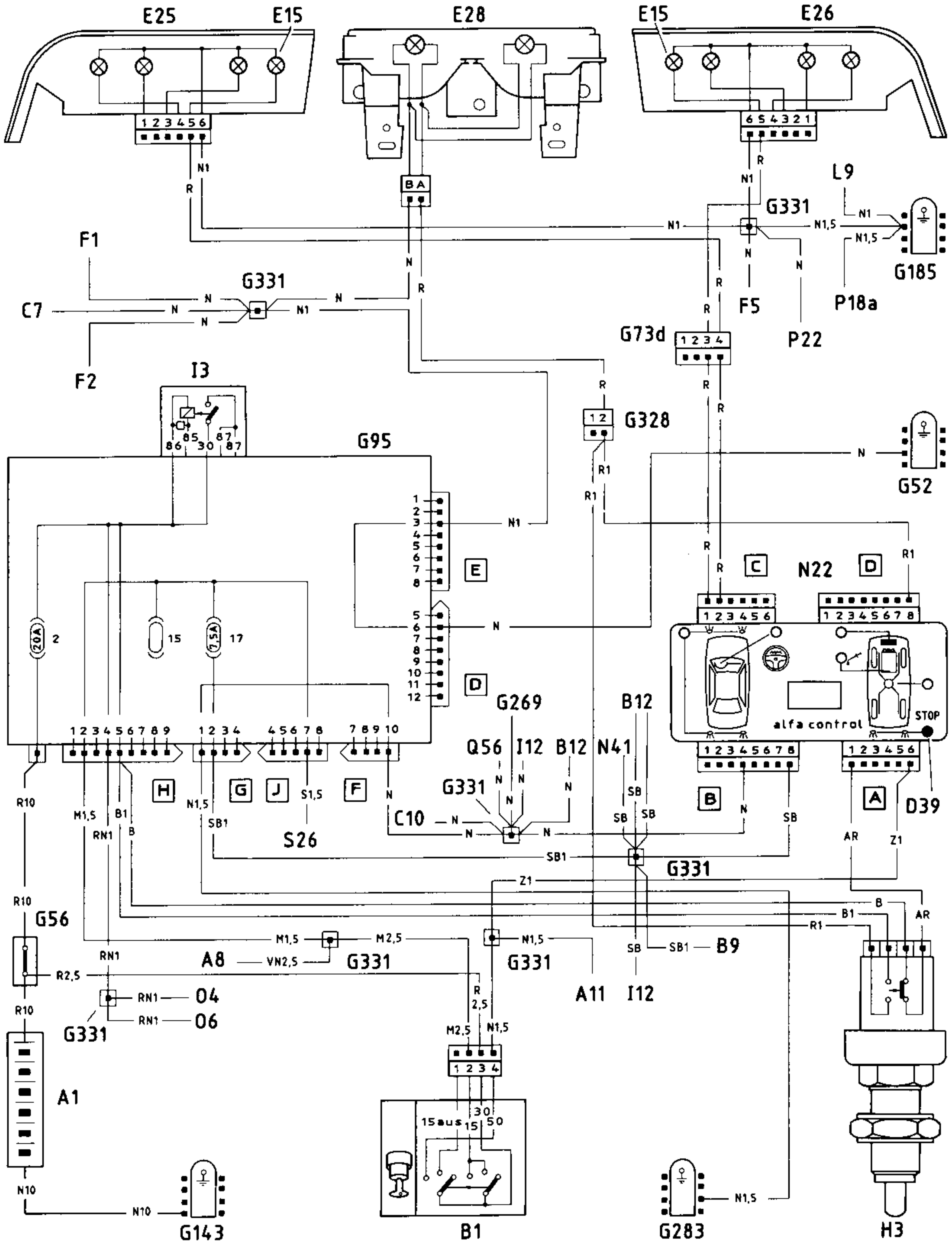
WIRING DIAGRAMS

**BRAKE LIGHTS (33 models equipped with ALFA CONTROL)**  
*(excluding UNITED KINGDOM/IRELAND)*



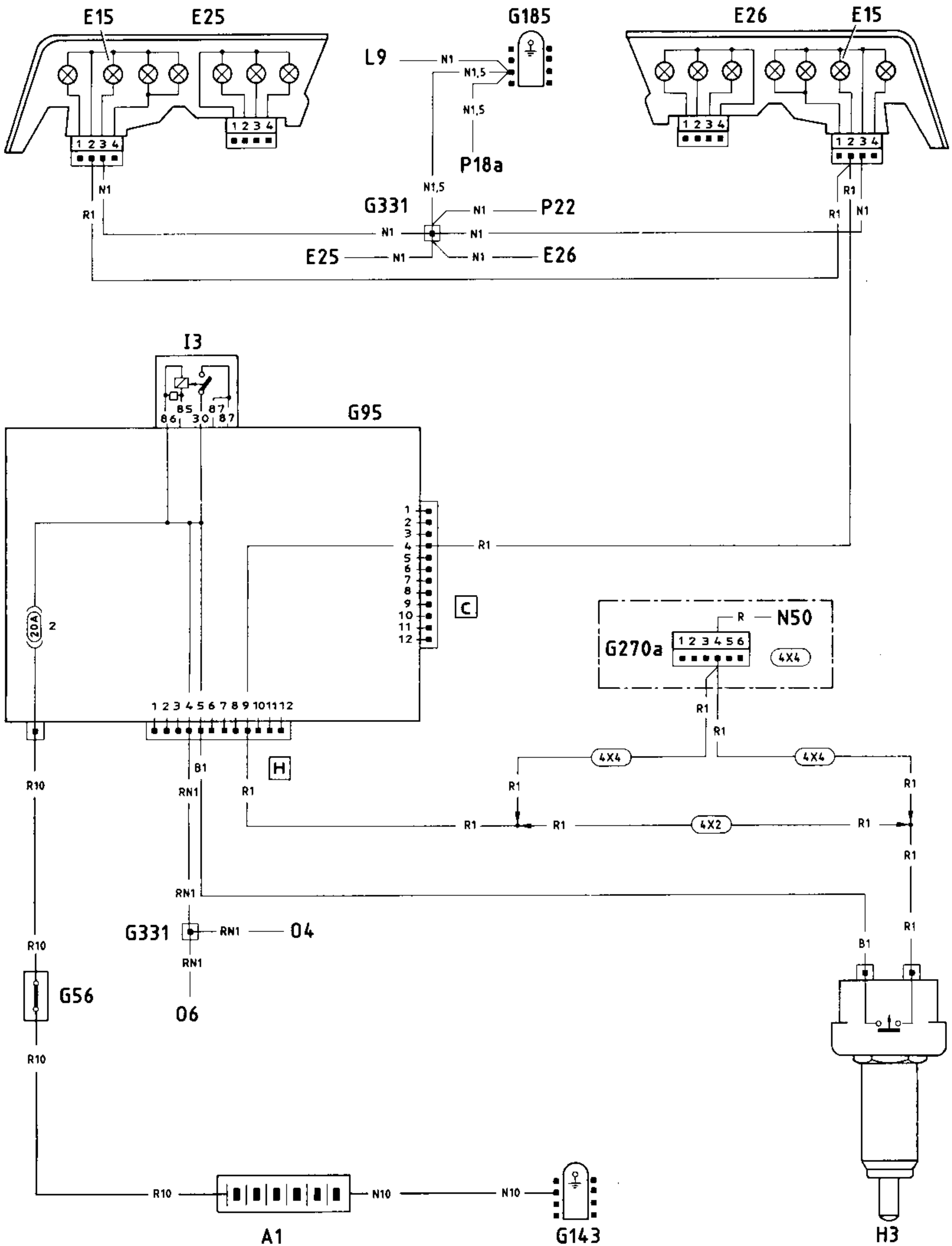
WIRING DIAGRAMS

**BRAKE LIGHTS (33 models equipped with ALFA CONTROL)**  
 (for UNITED KINGDOM/IRELAND)



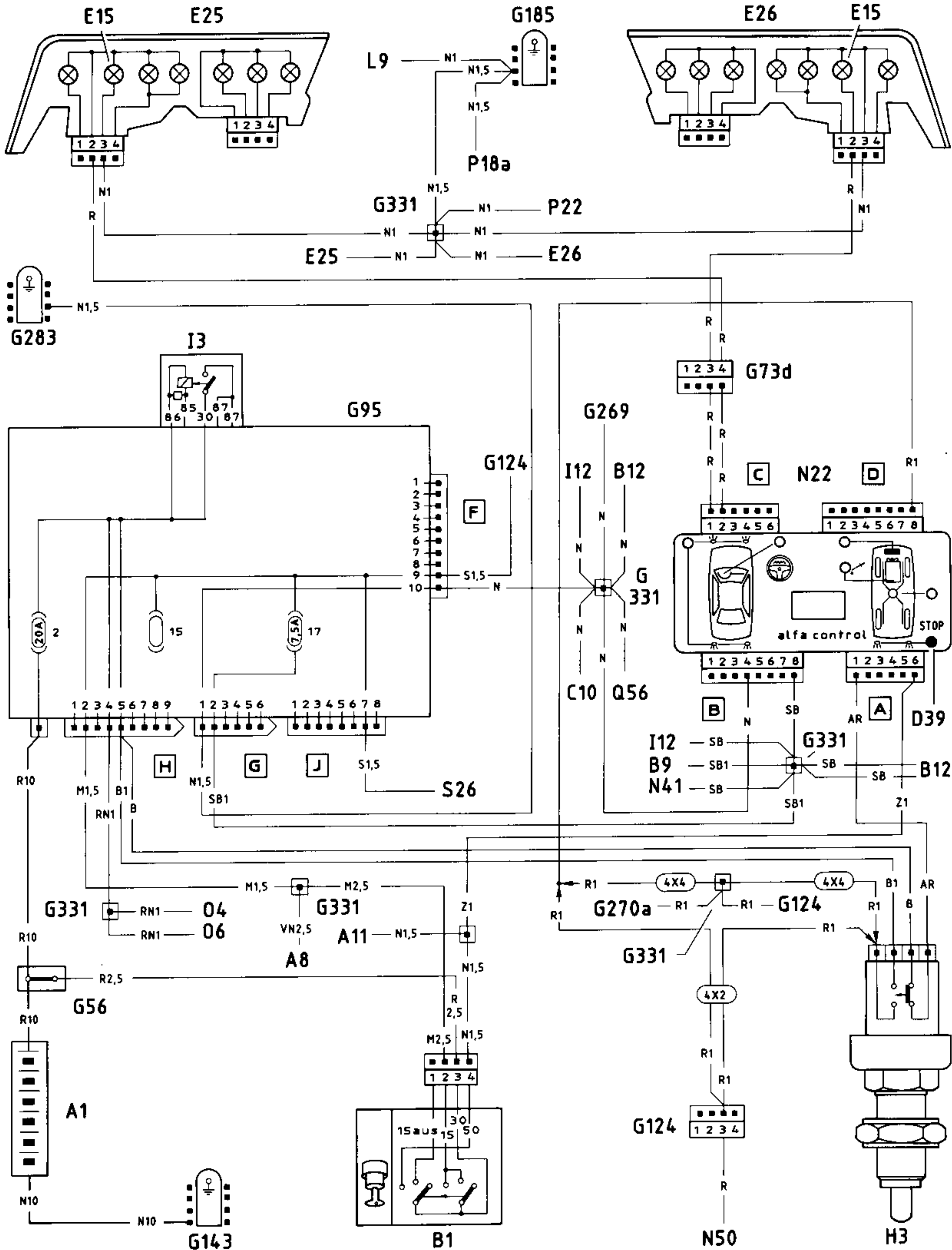
WIRING DIAGRAMS

**BRAKE LIGHTS (SPORT WAGON models not equipped with ALFA CONTROL)**



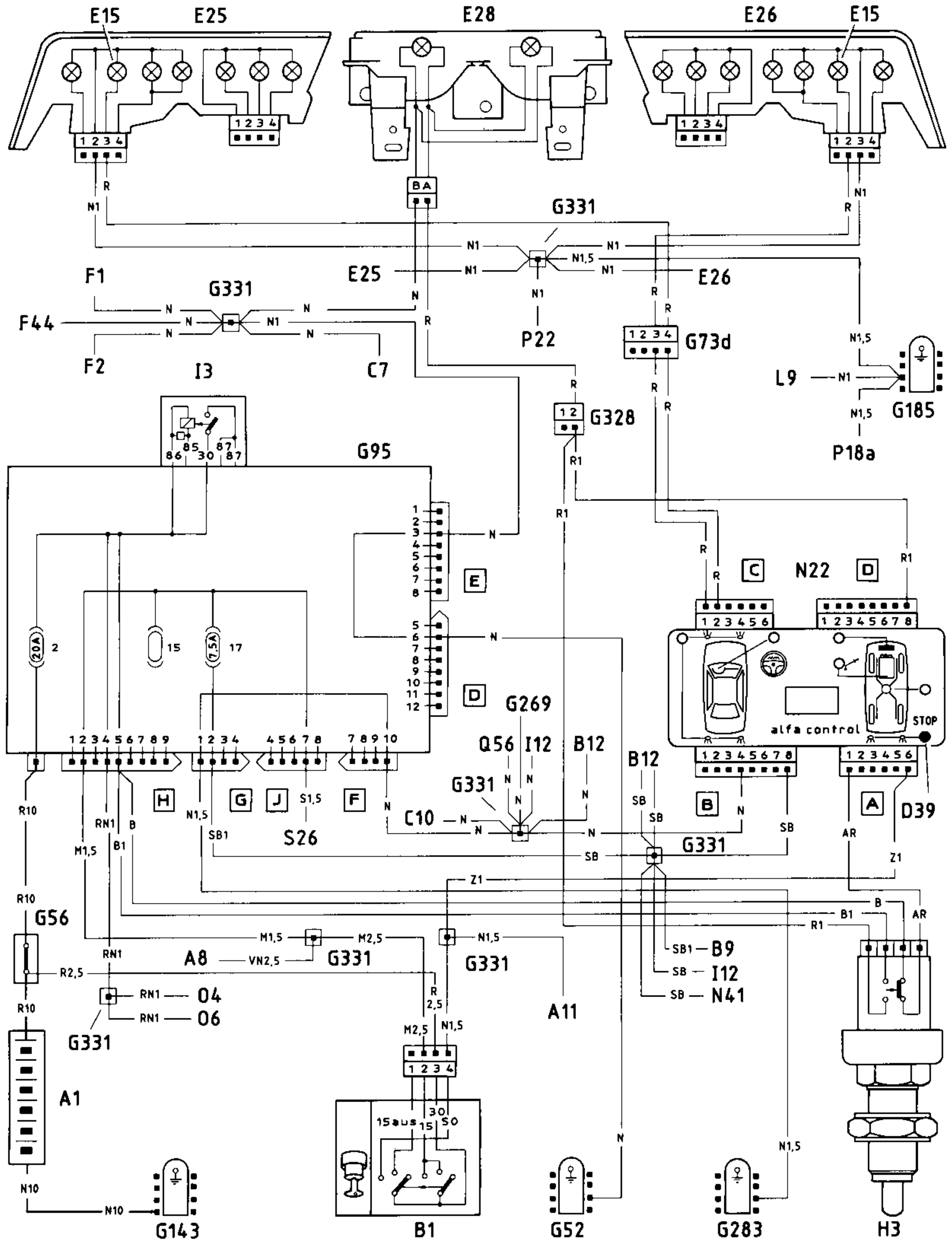
WIRING DIAGRAMS

**BRAKE LIGHTS (SPORT WAGON models equipped with ALFA CONTROL)**  
 (excluding UNITED KINGDOM/IRELAND)



WIRING DIAGRAMS

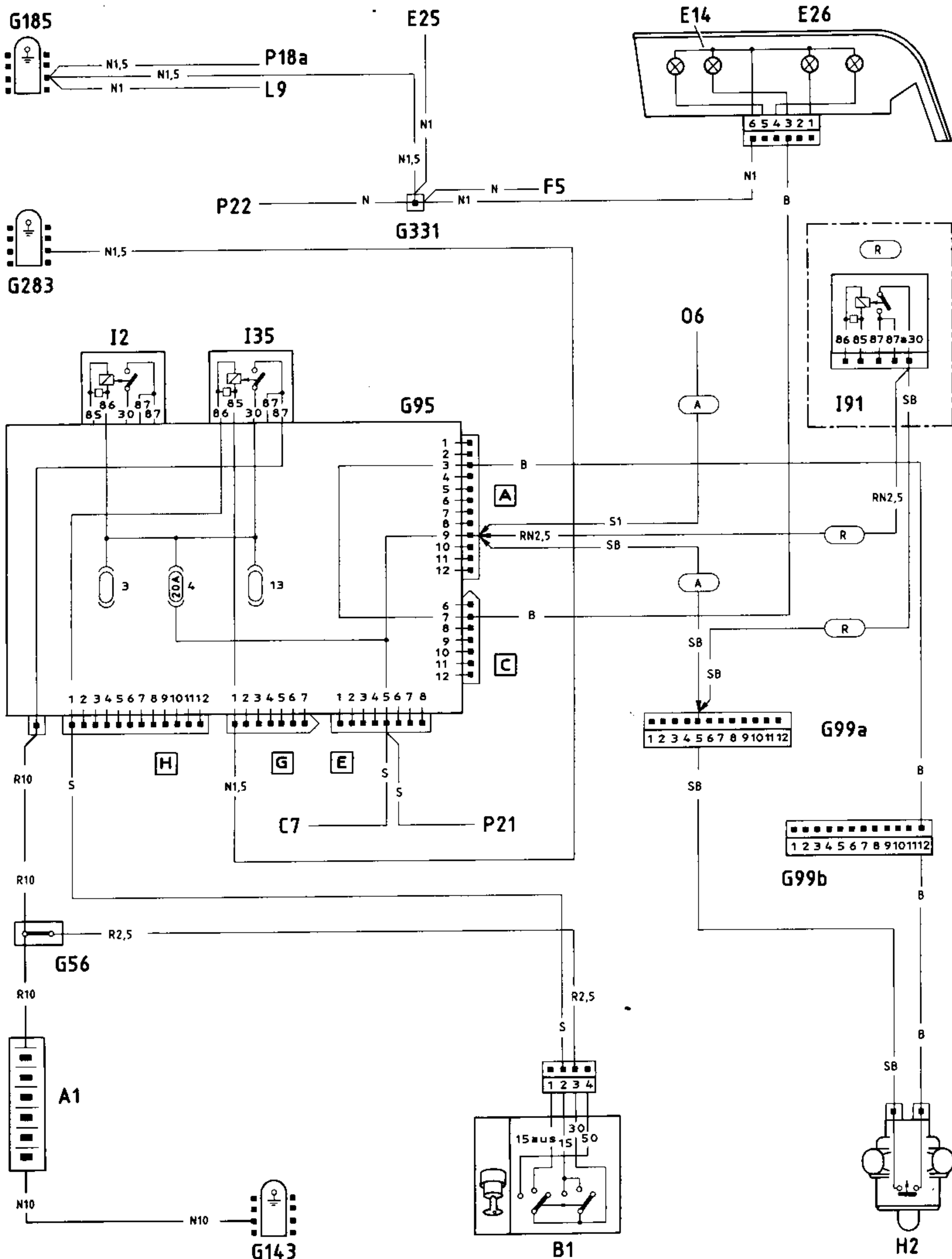
**BRAKE LIGHTS (SPORT WAGON models equipped with ALFA CONTROL)**  
 (for UNITED KINGDOM/IRELAND)





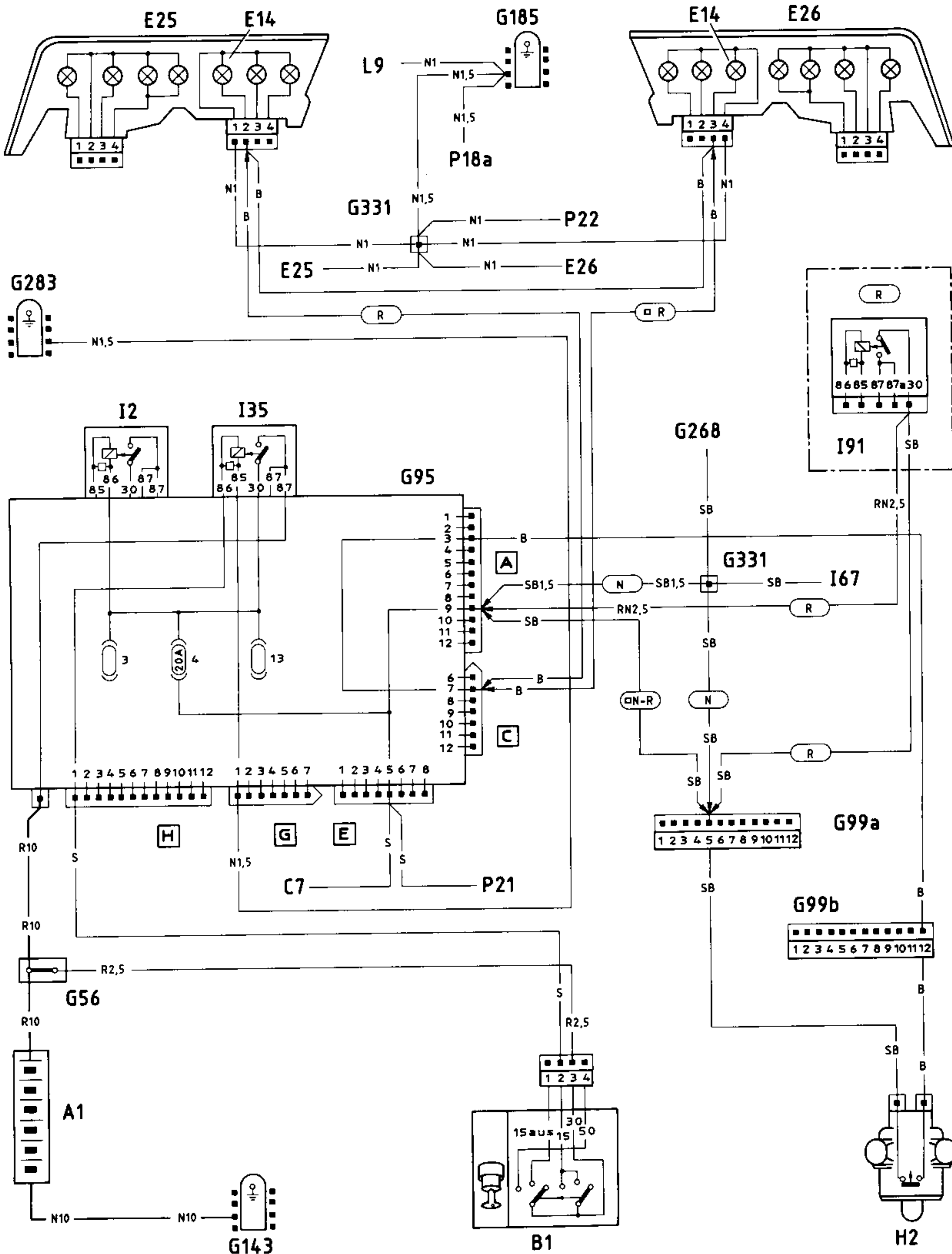
WIRING DIAGRAMS

REVERSING LIGHTS (33 models) (for UNITED KINGDOM/IRELAND - AUSTRALIA)





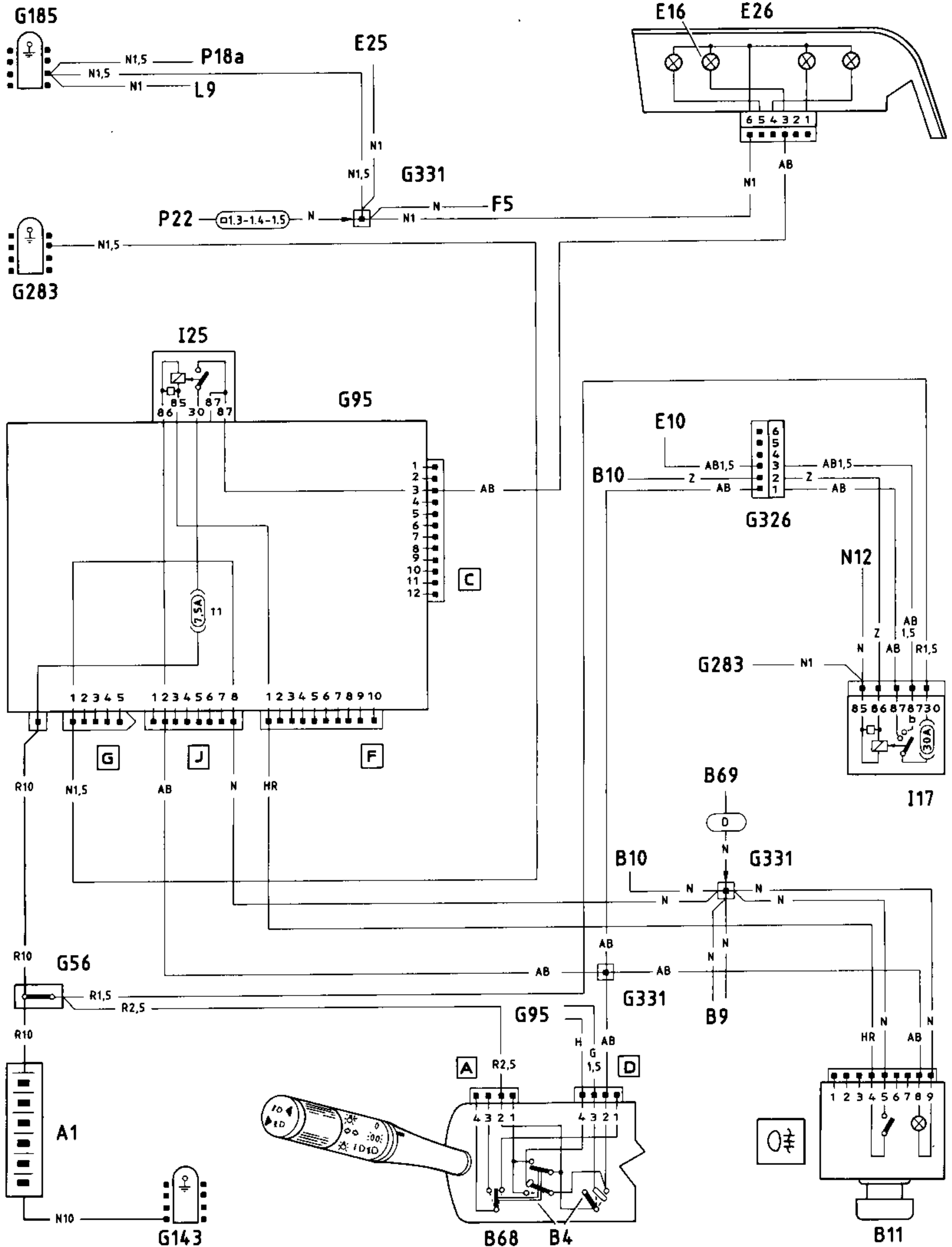
REVERSING LIGHTS (*SPORT WAGON models*)



WIRING DIAGRAMS

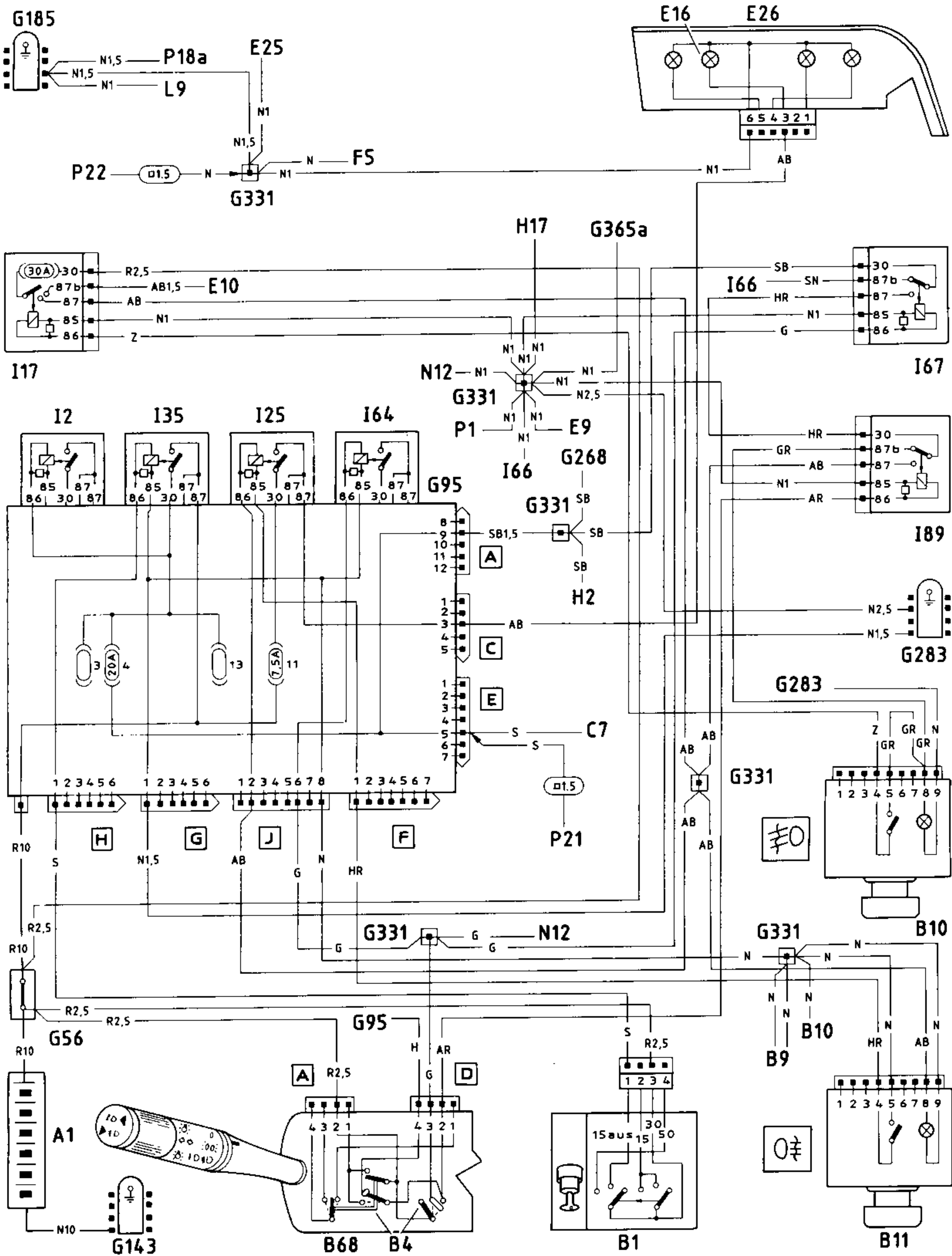
REAR FOGLIGHT (33 models)

(except for NORTH EUROPEAN COUNTRIES - UNITED KINGDOM/IRELAND - AUSTRALIA)



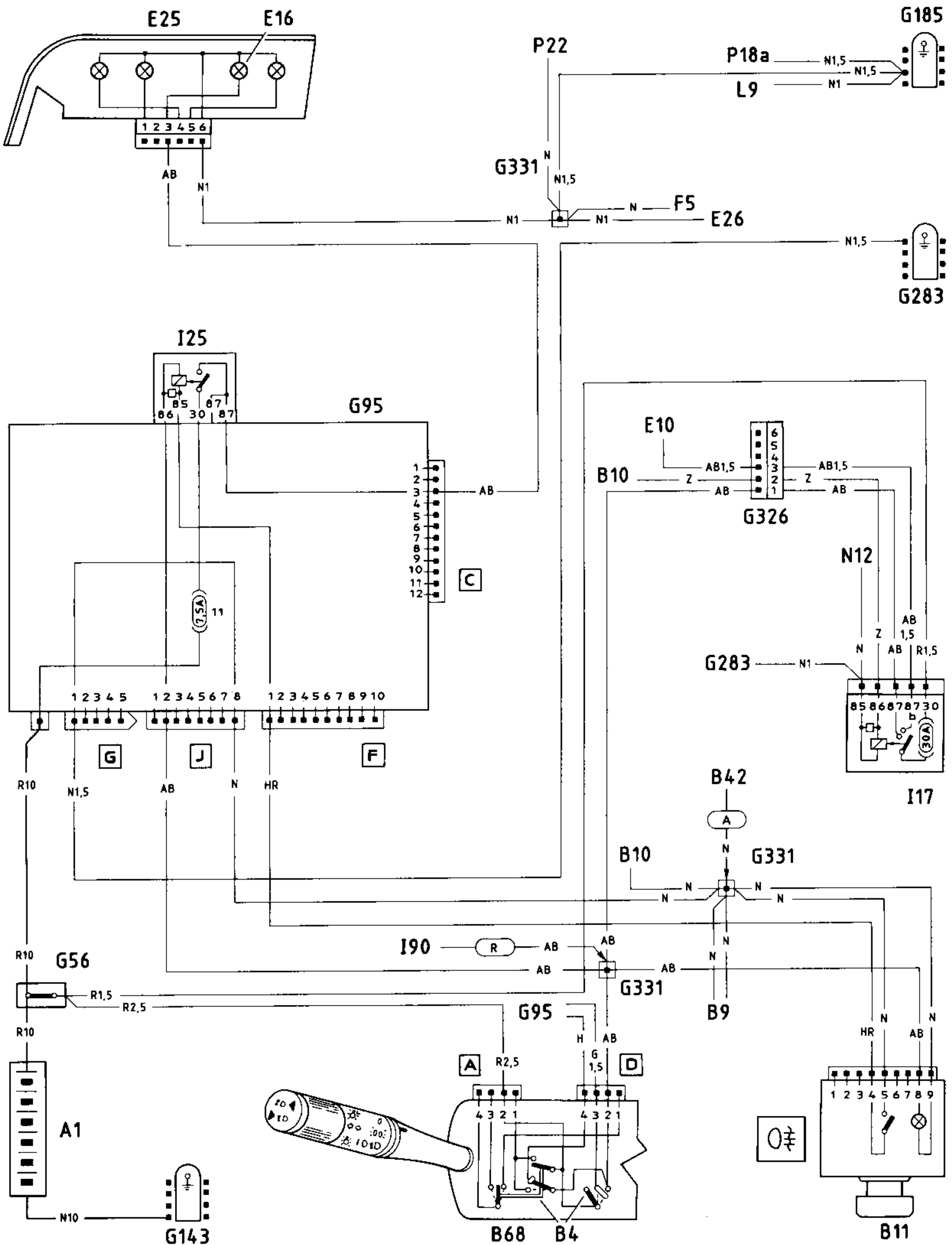
# WIRING DIAGRAMS

## REAR FOGLIGHT (33 models) (for NORTH EUROPEAN COUNTRIES)



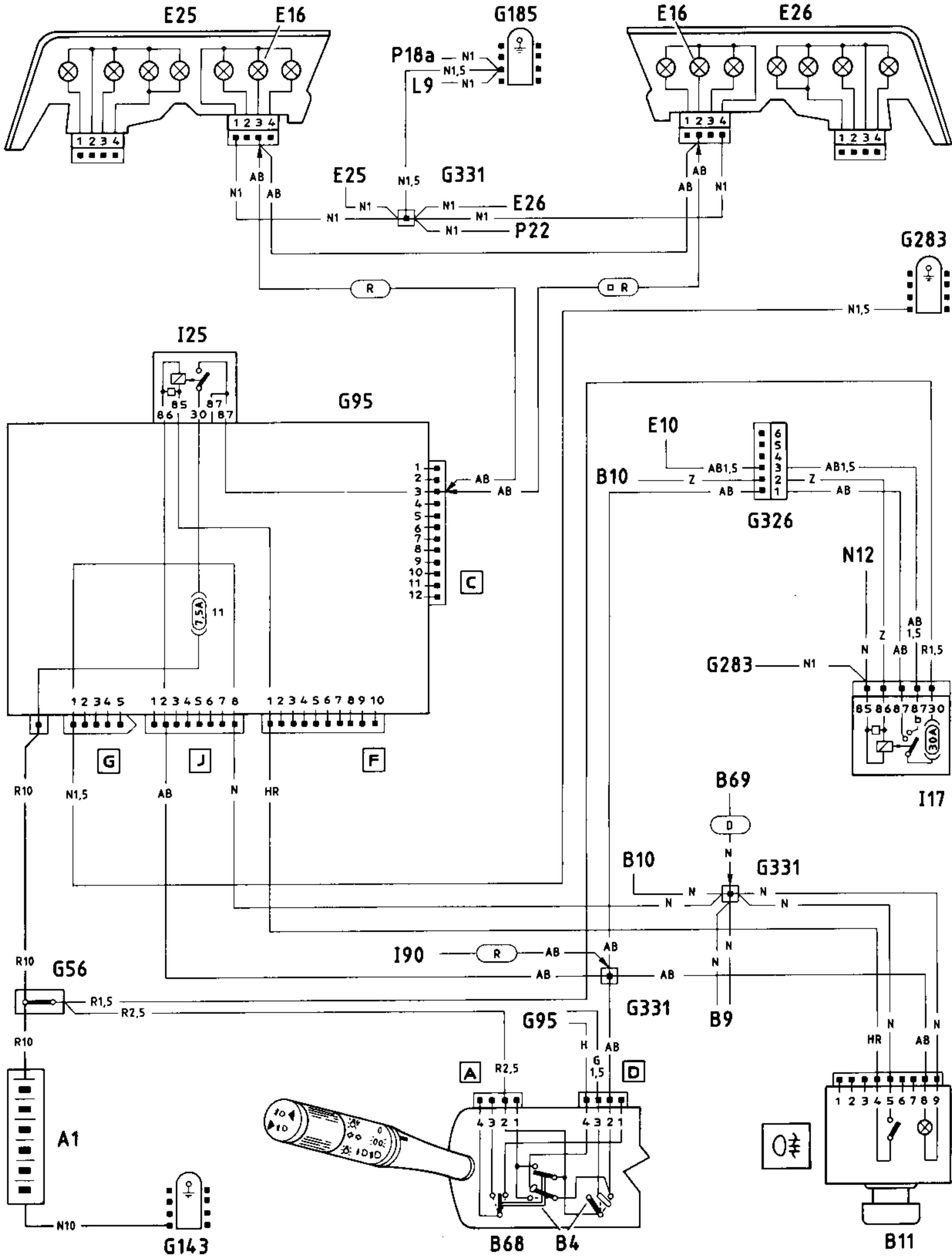
# WIRING DIAGRAMS

## REAR FOGLIGHT (33 models) (for UNITED KINGDOM/IRELAND - AUSTRALIA)

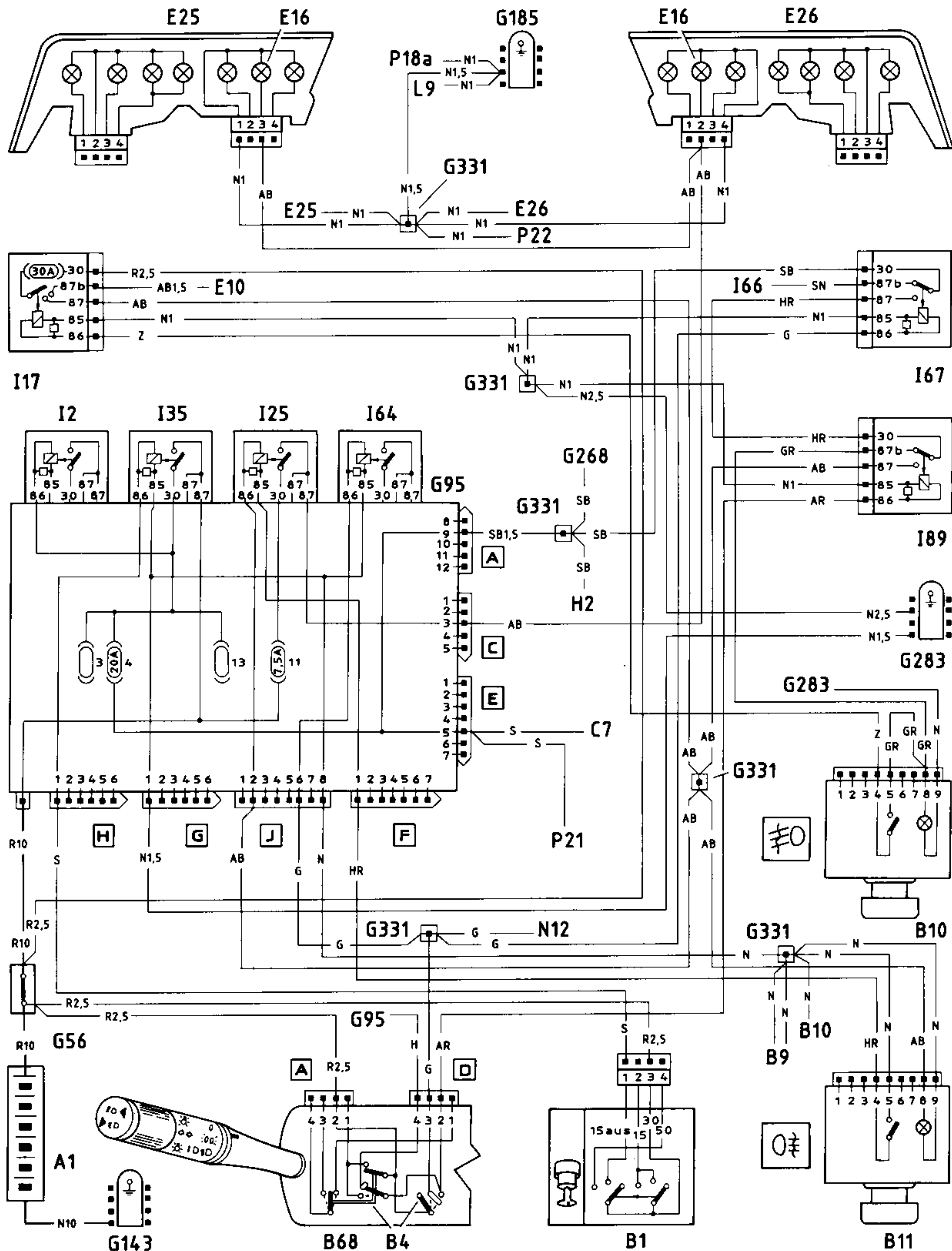


# WIRING DIAGRAMS

## REAR FOGLIGHTS (SPORT WAGON models) (excluding NORTH EUROPEAN COUNTRIES)

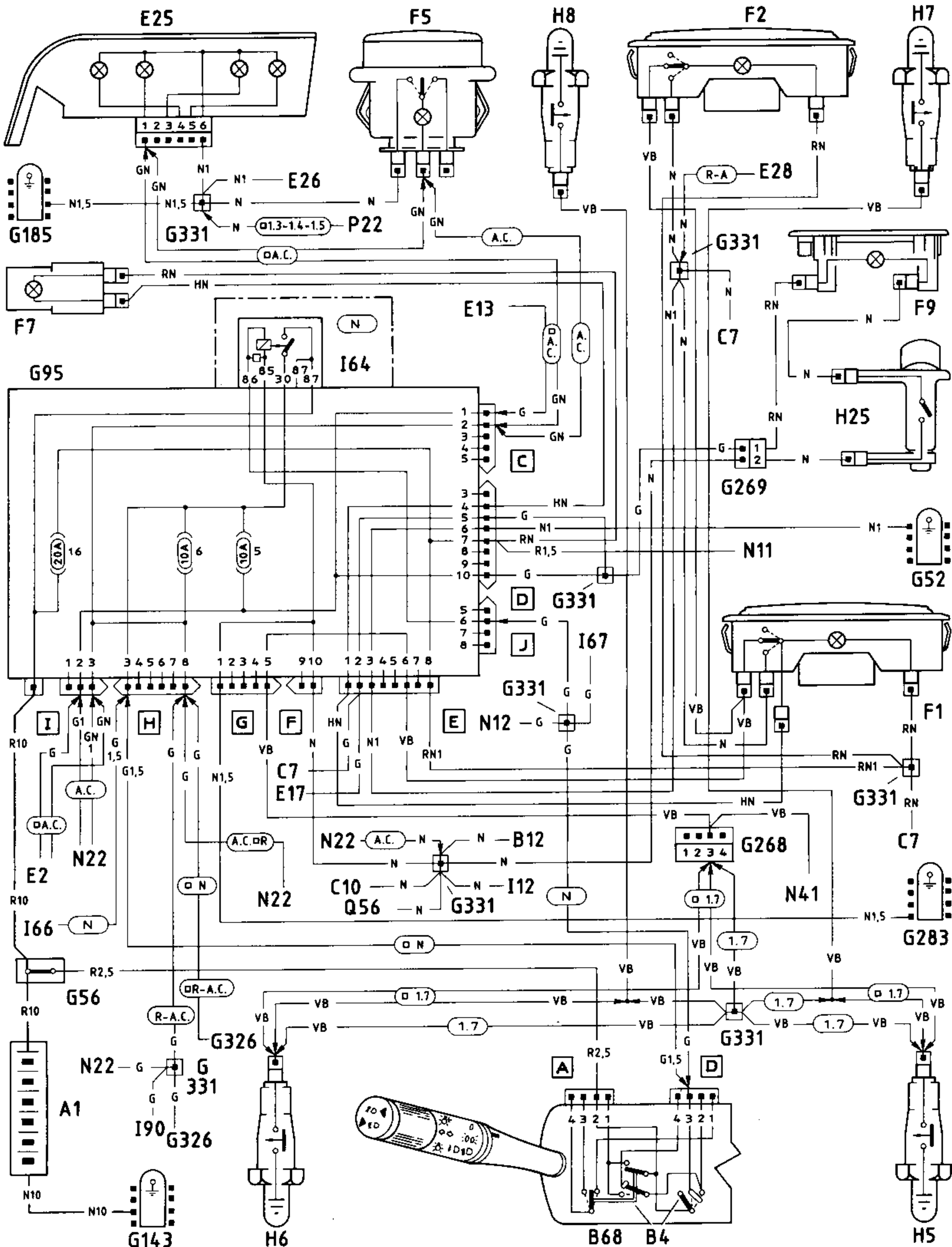


REAR FOGLIGHTS (SPORT WAGON models) (for NORTH EUROPEAN COUNTRIES)



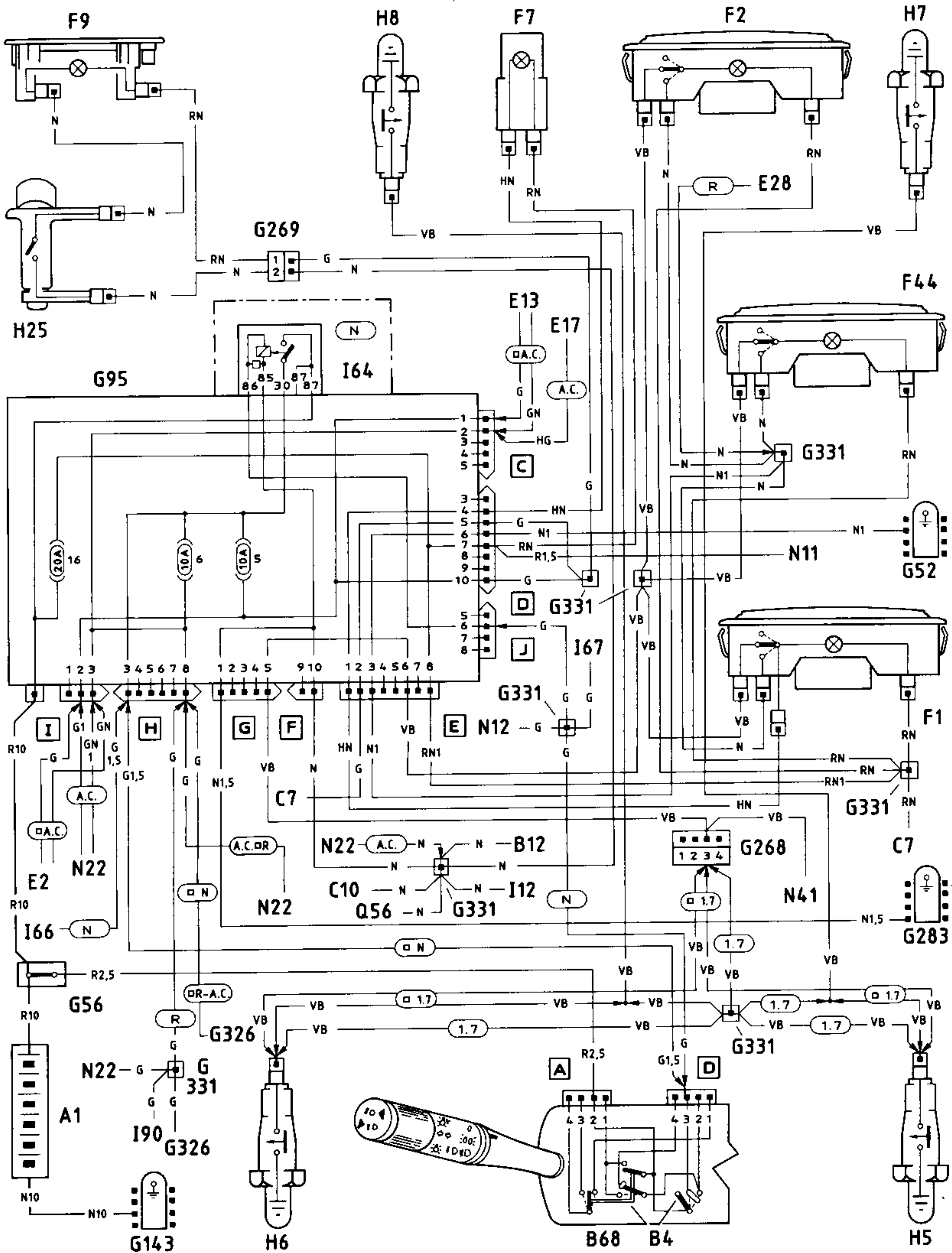
# INTERNAL LIGHTING

PASSENGER COMPARTMENT - LUGGAGE COMPARTMENT - GLOVEBOX -  
FUSE LIGHTING (33 models)



WIRING DIAGRAMS

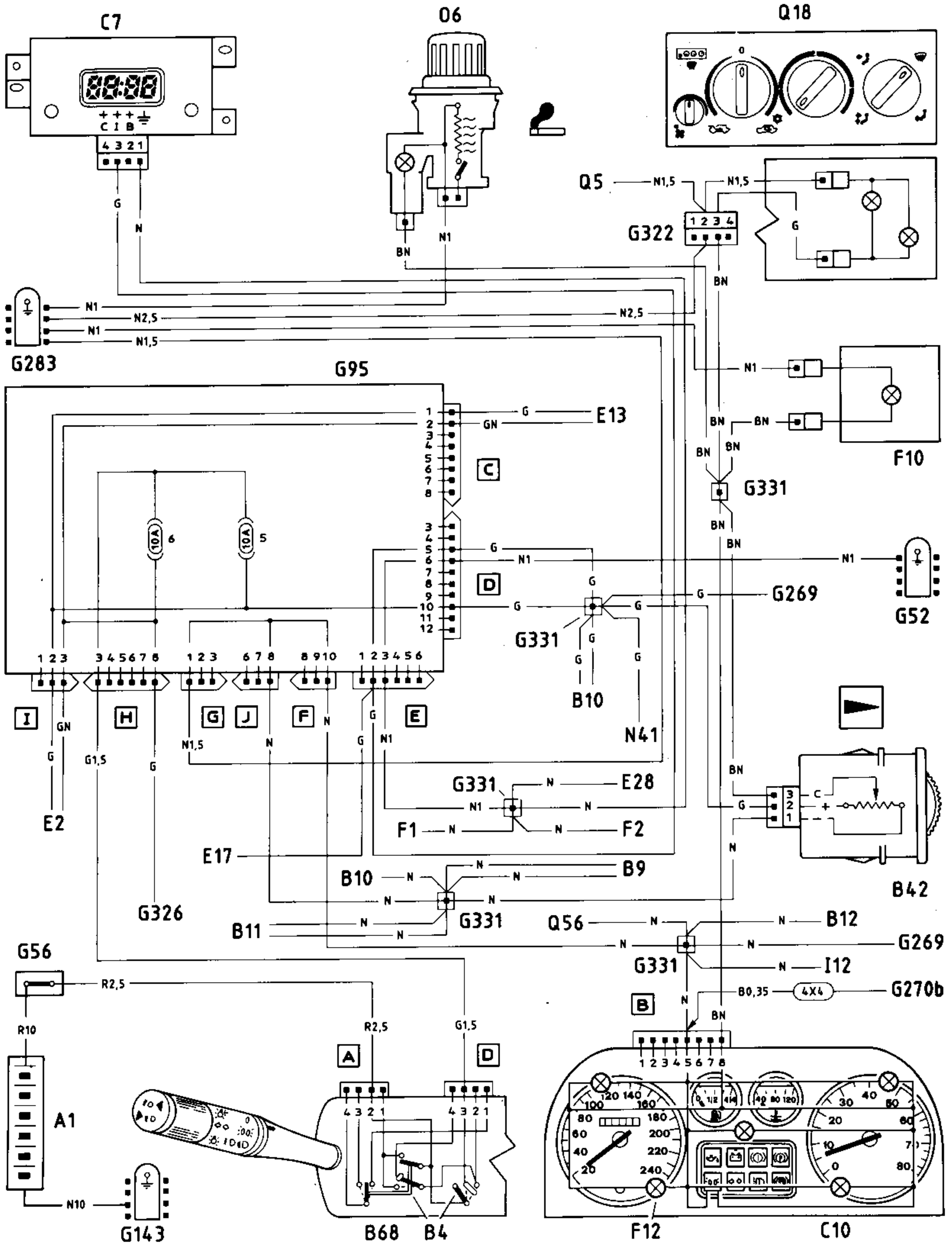
PASSENGER COMPARTMENT - GLOVEBOX - FUSE LIGHTING  
(SPORT WAGON models)





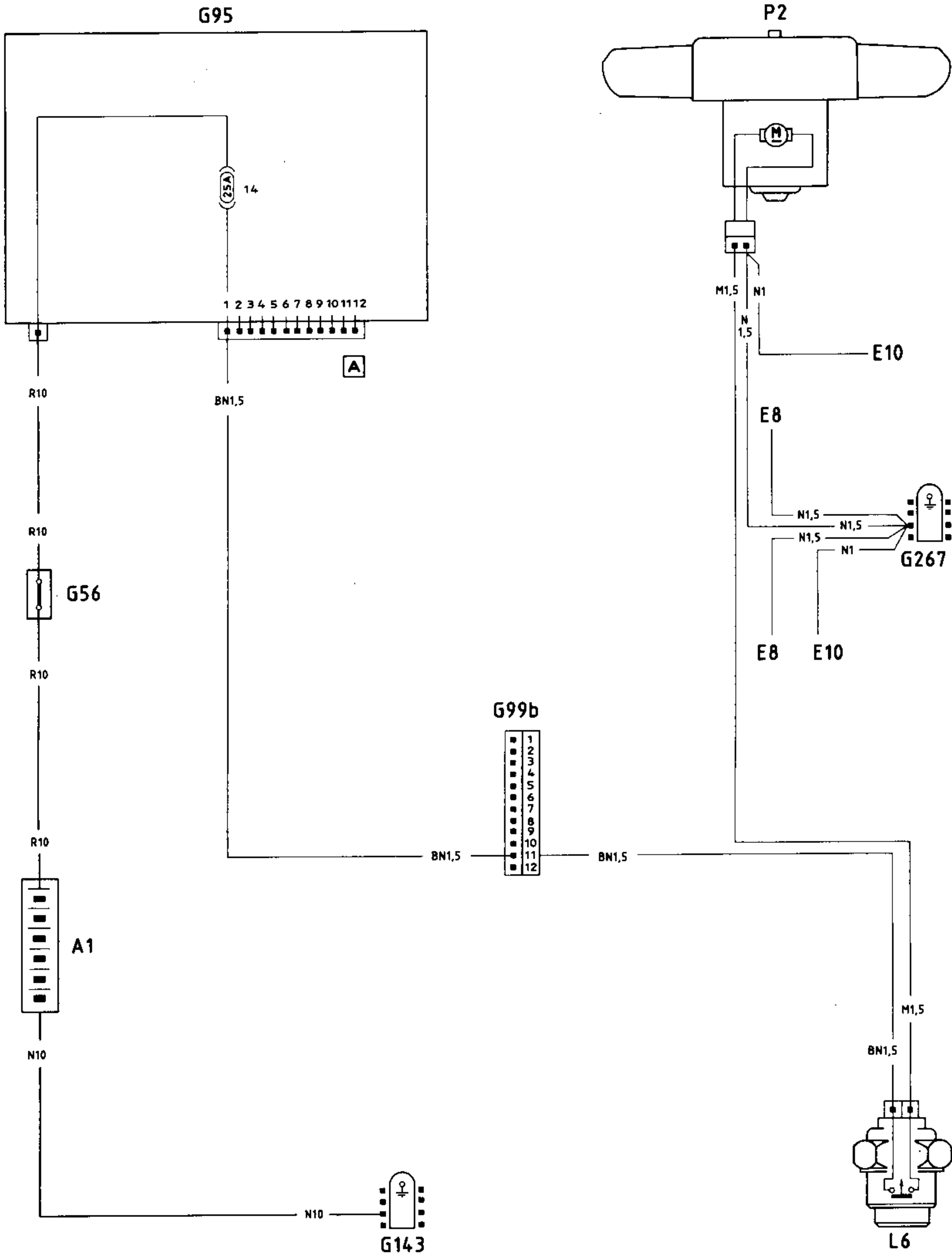


INSTRUMENT LIGHTS (for AUSTRALIA)



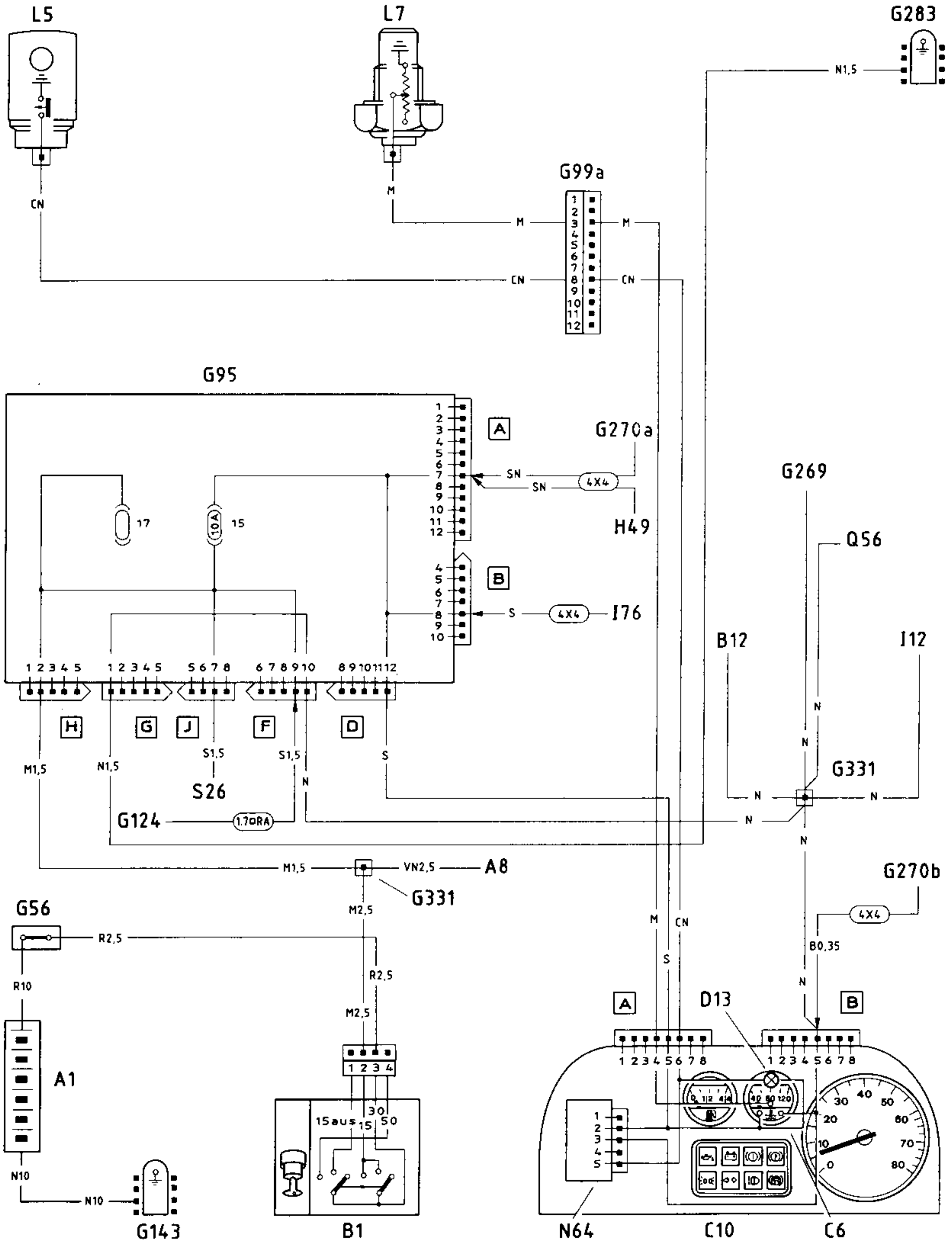
# SENSORS AND SENDERS

## ENGINE COOLING

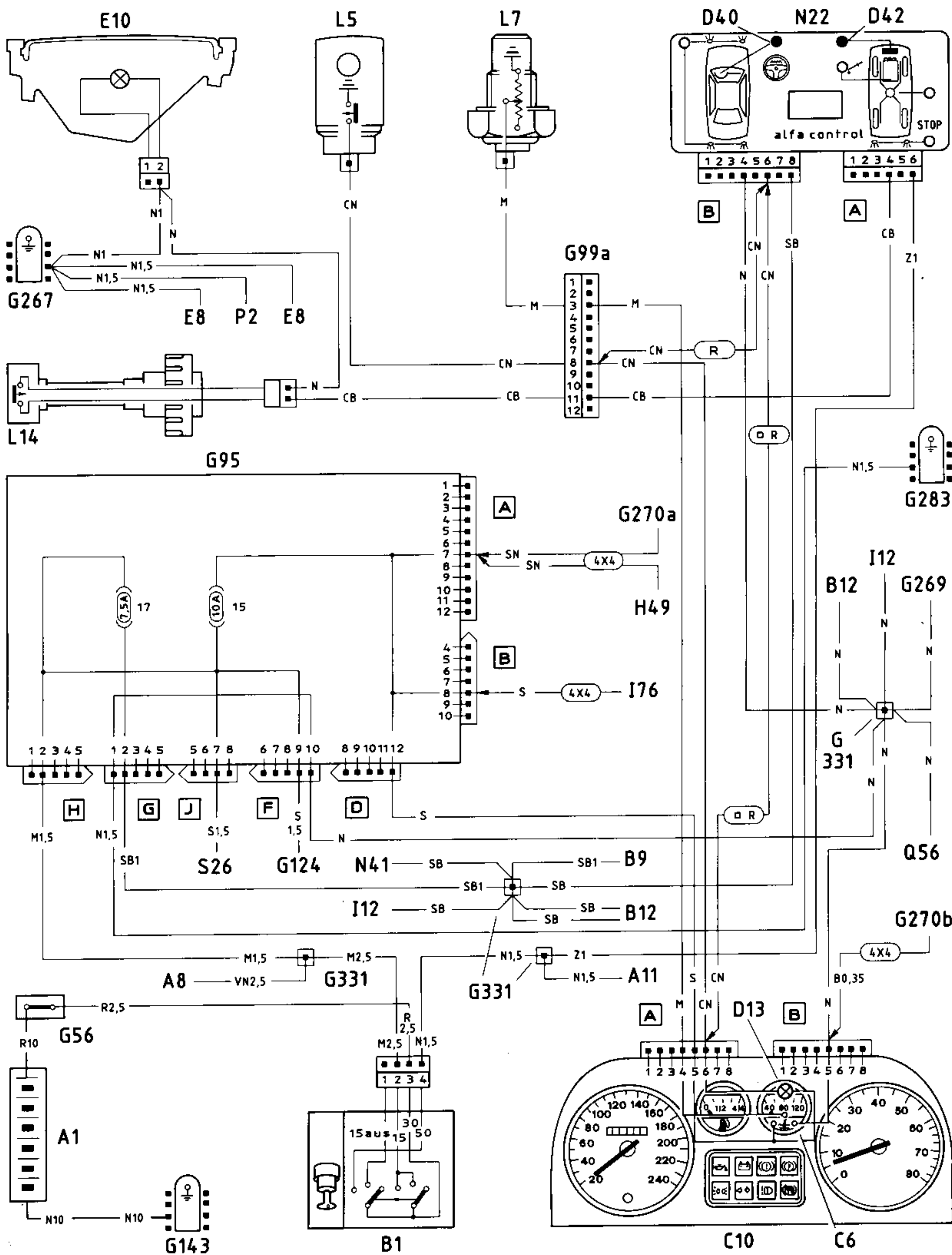


# WIRING DIAGRAMS

## ENGINE COOLANT TEMPERATURE (versions not equipped with ALFA CONTROL)

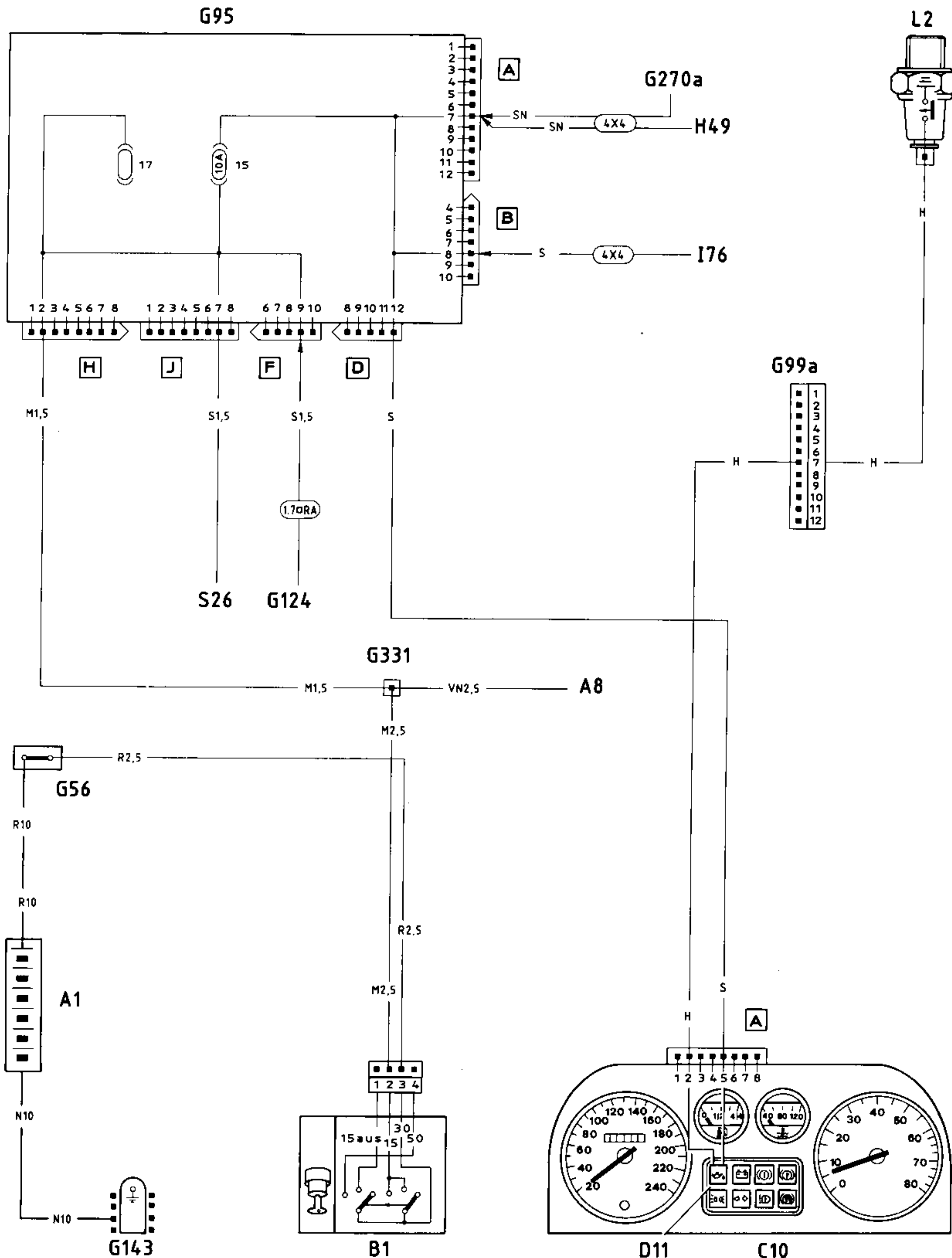


**ENGINE COOLANT TEMPERATURE AND LEVEL**  
*(versions equipped with ALFA CONTROL)*

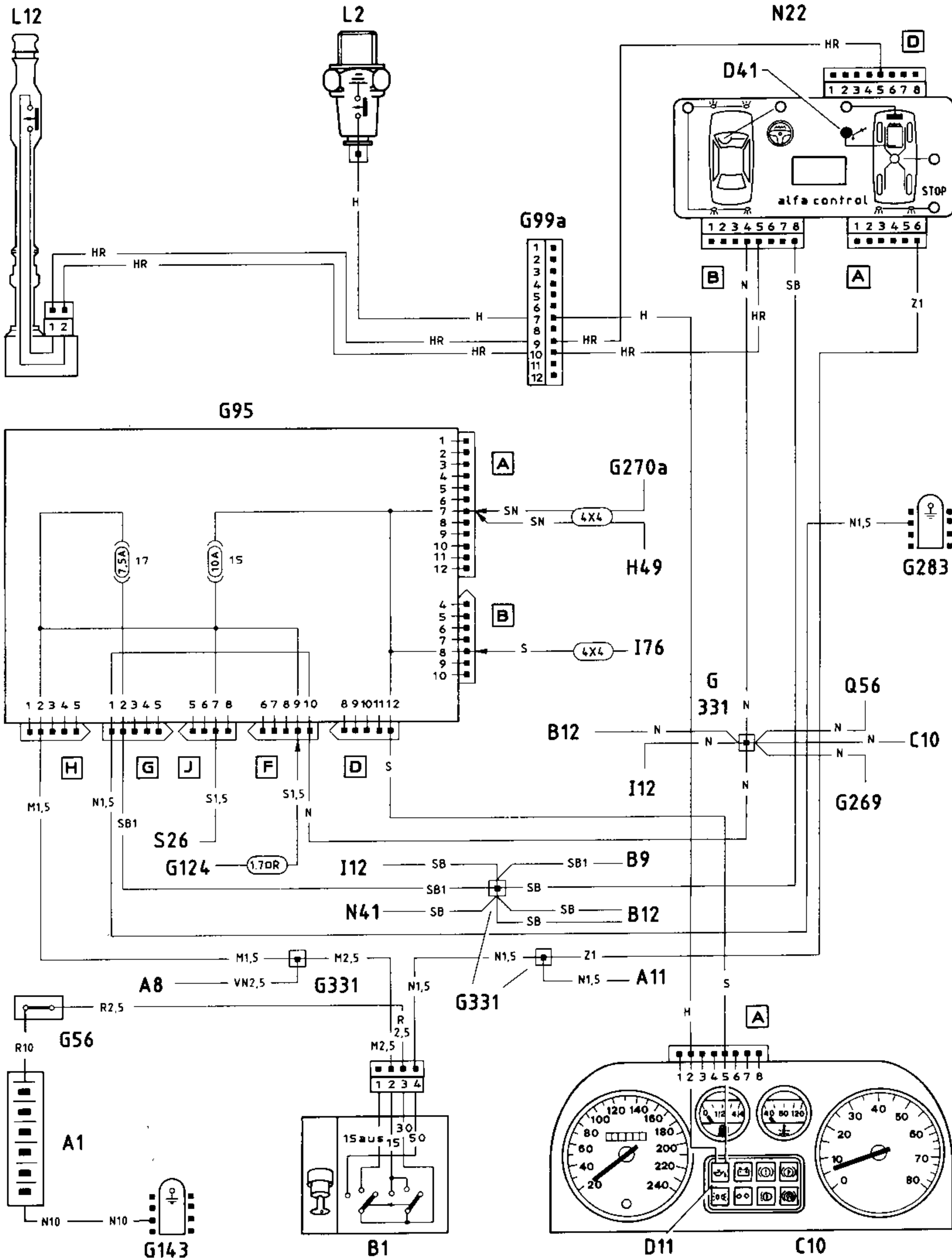


WIRING DIAGRAMS

ENGINE OIL PRESSURE (versions not equipped with ALFA CONTROL)

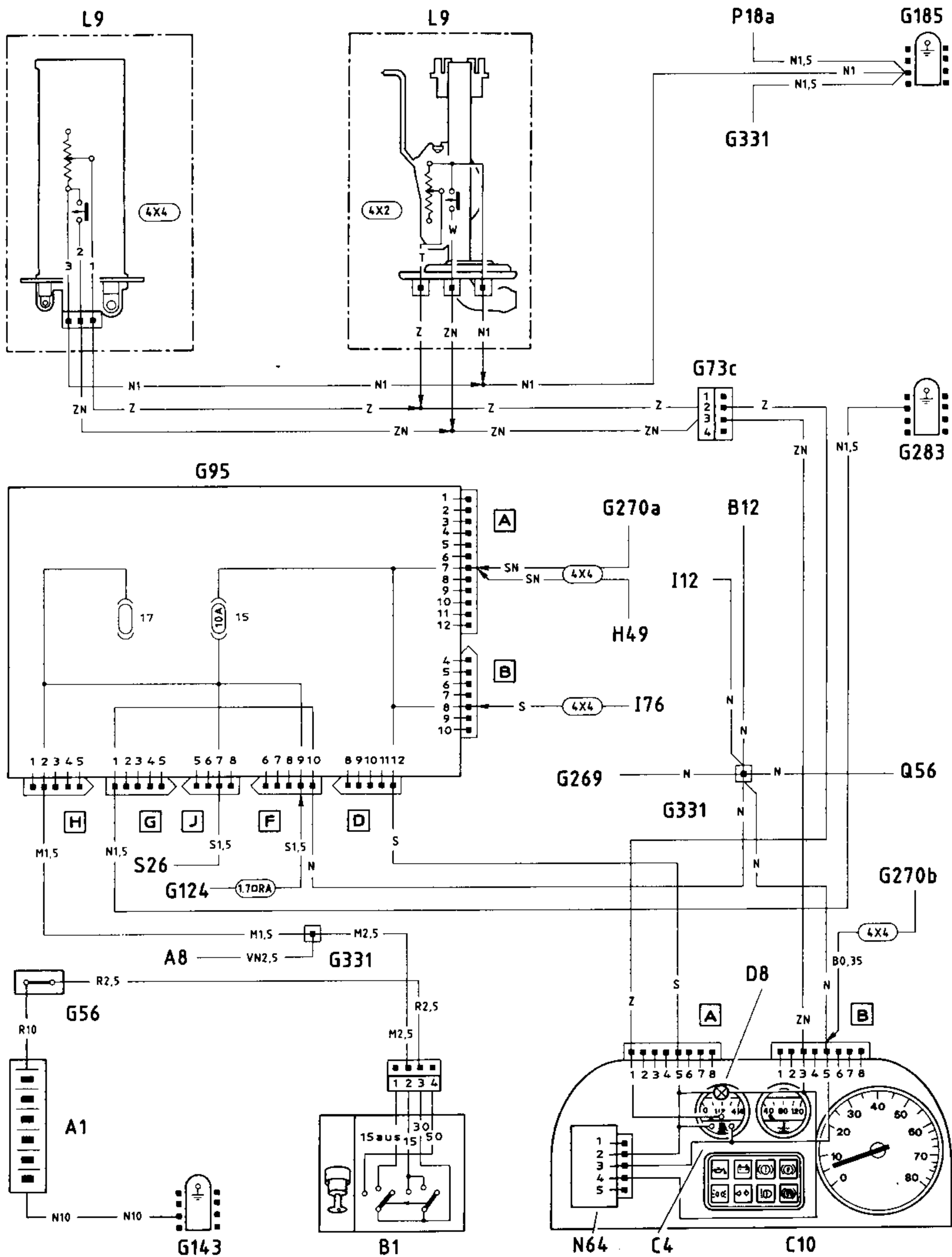


ENGINE OIL PRESSURE AND LEVEL (versions equipped with ALFA CONTROL)



WIRING DIAGRAMS

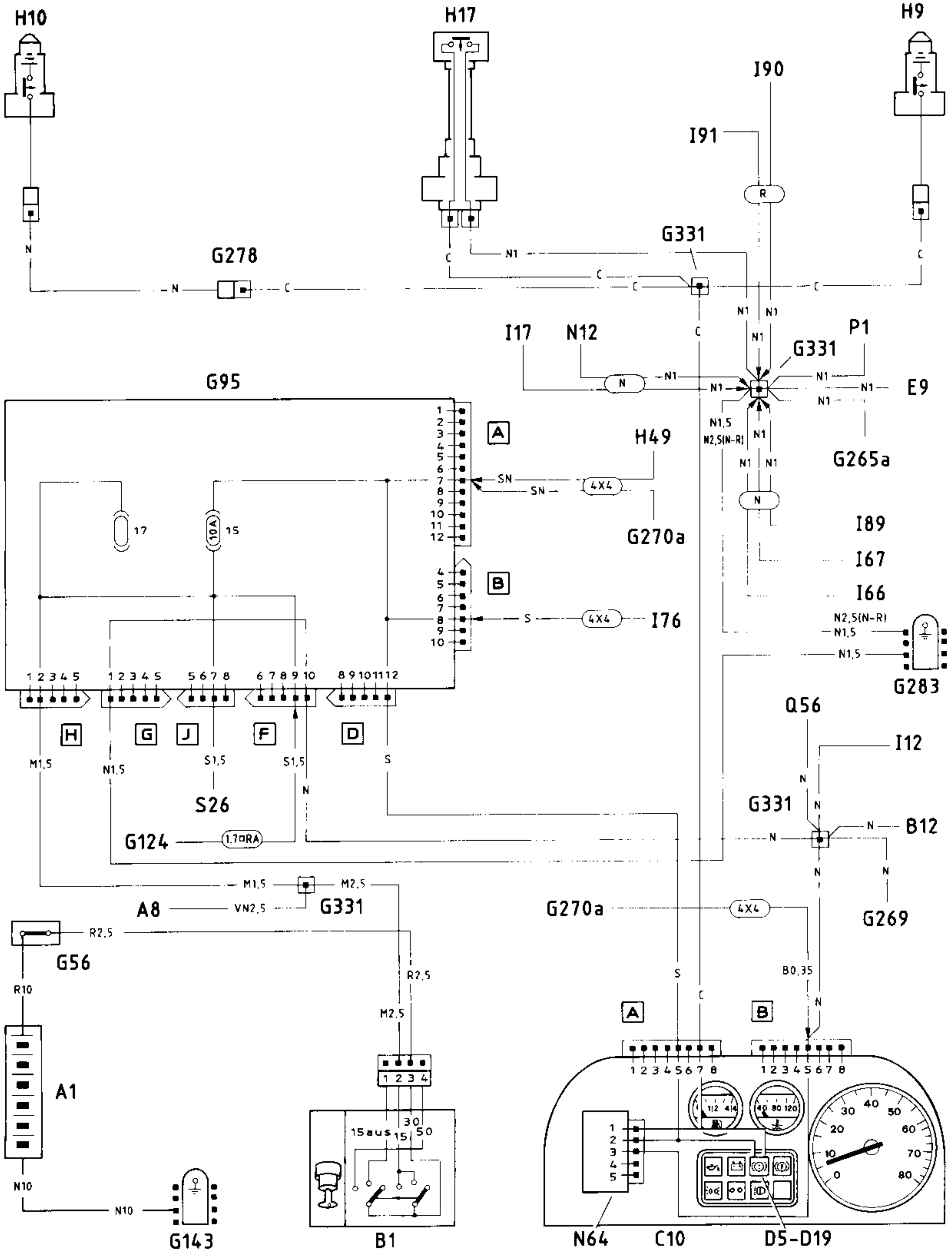
FUEL LEVEL (versions not equipped with ALFA CONTROL)





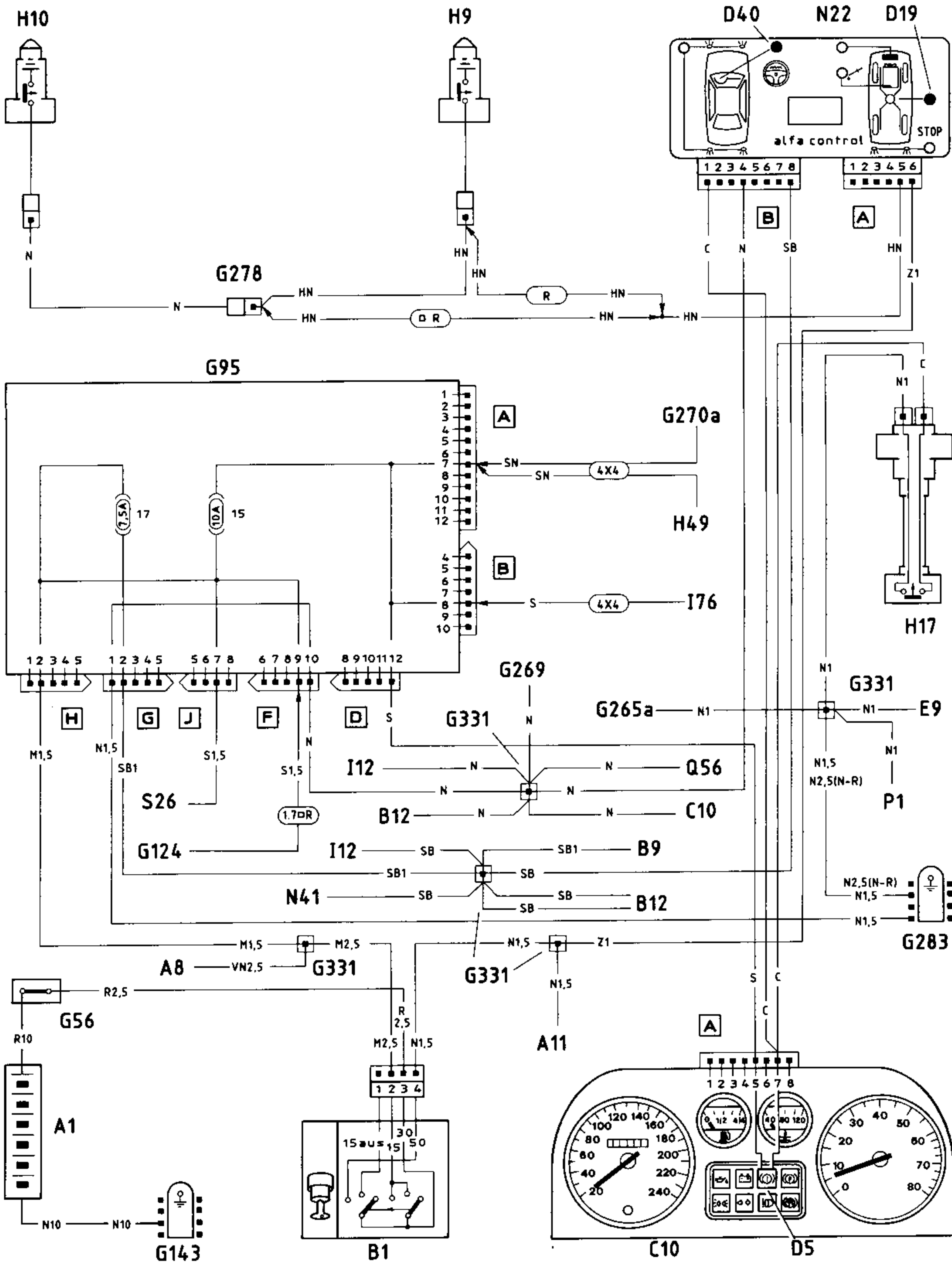


**BRAKE PAD WEAR - CLUTCH AND BRAKE FLUID LEVEL**  
*(versions not equipped with ALFA CONTROL)*



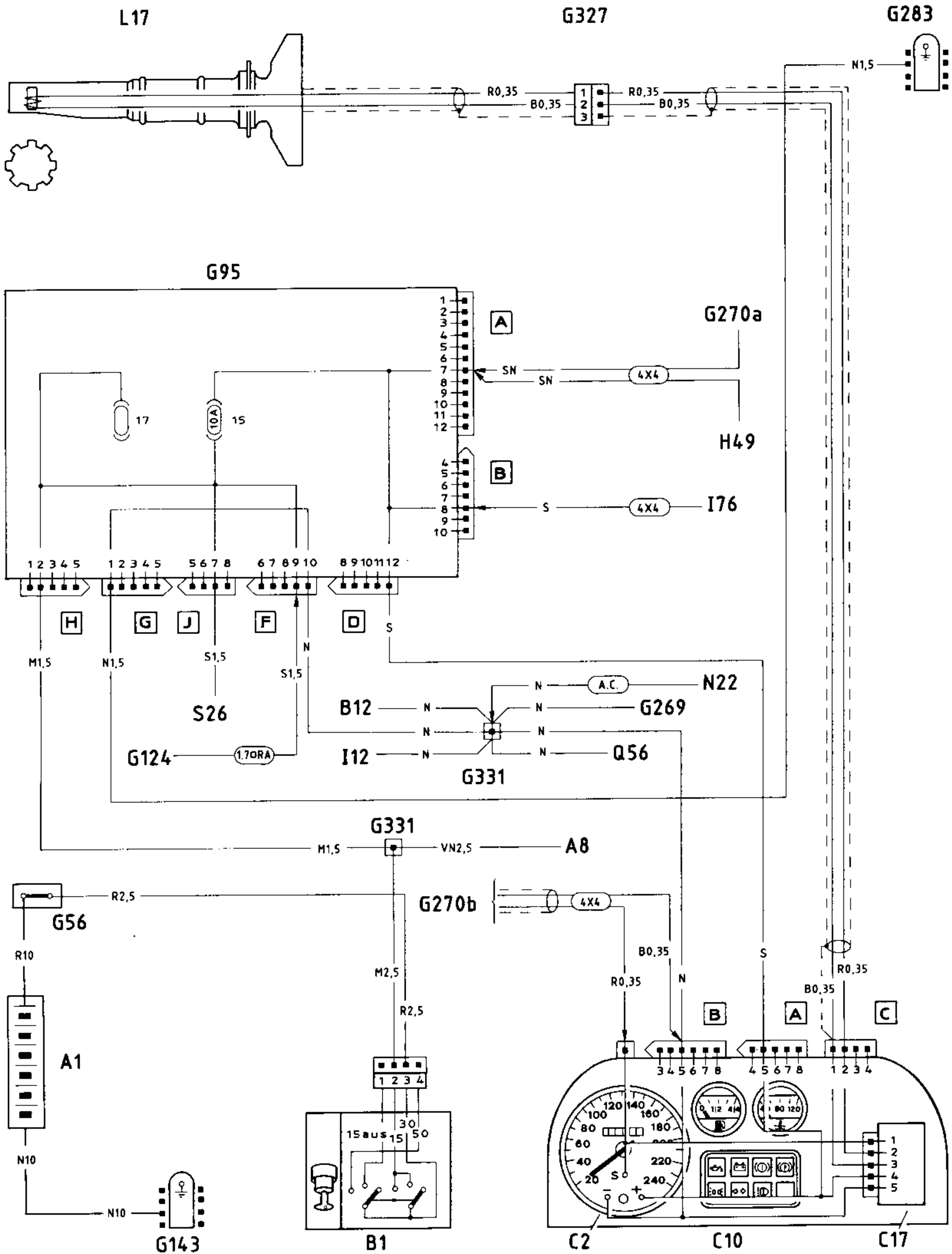
# WIRING DIAGRAMS

## BRAKE PAD WEAR - CLUTCH AND BRAKE FLUID LEVEL (versions equipped with ALFA CONTROL)



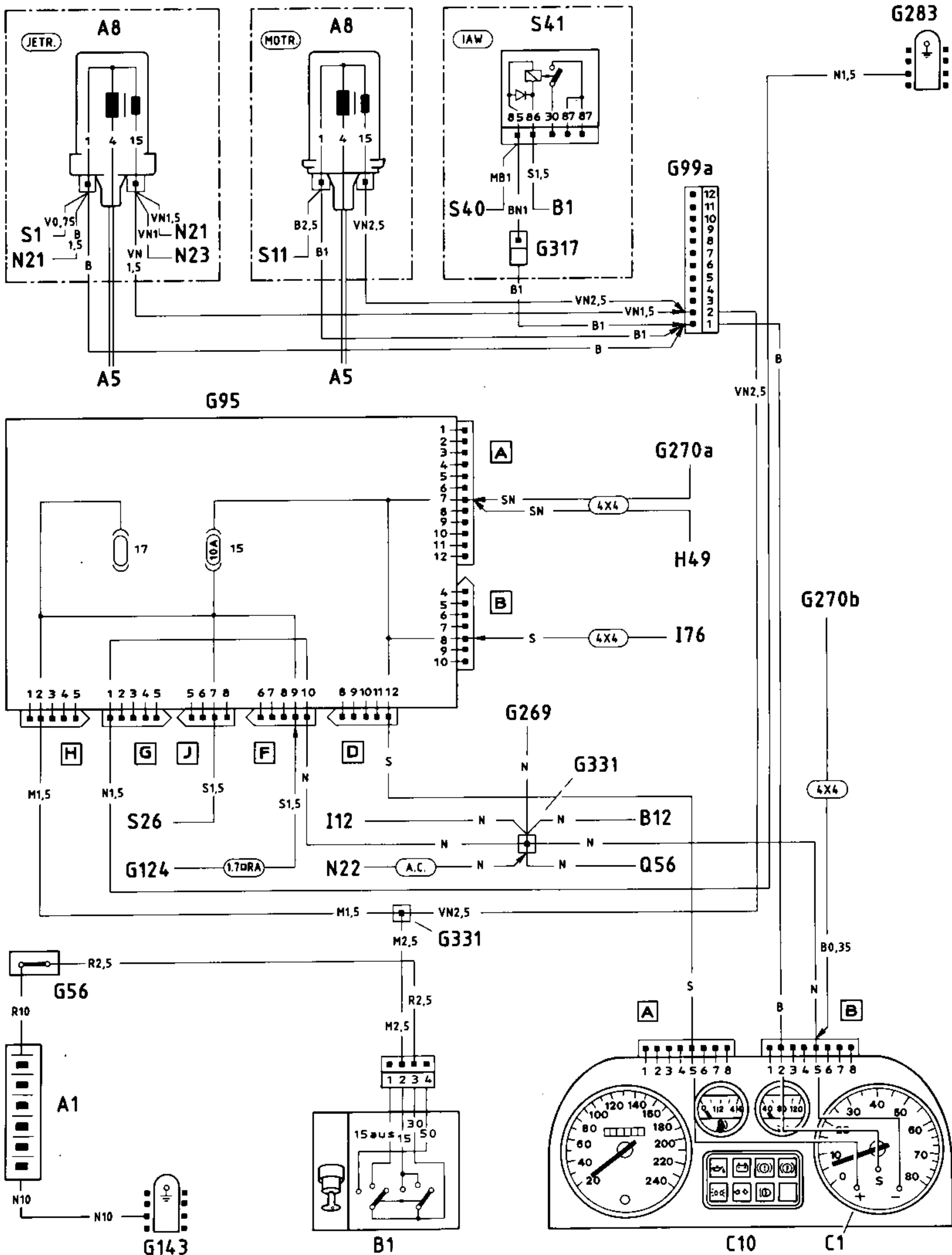
# WIRING DIAGRAMS

## SPEEDOMETER



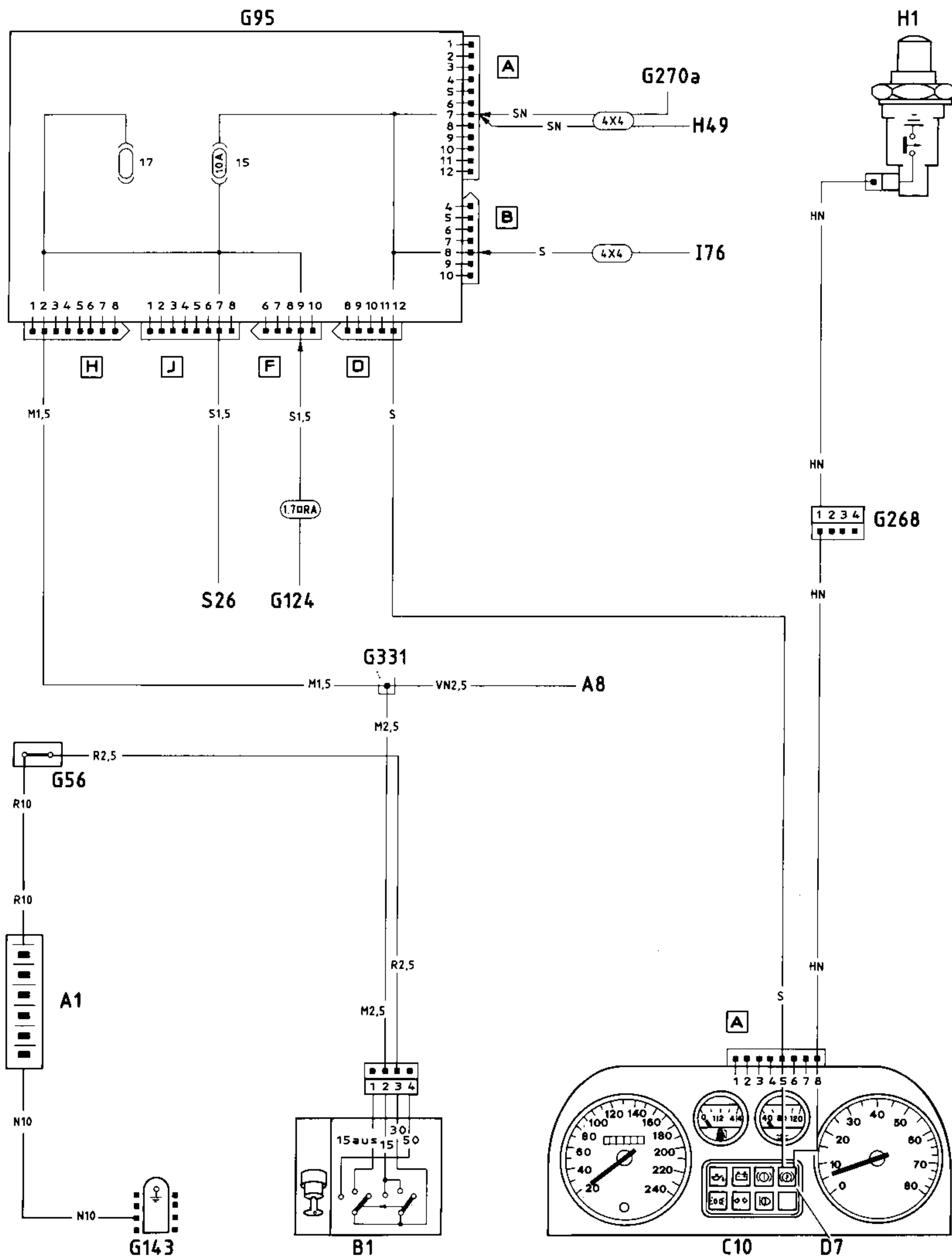
# WIRING DIAGRAMS

## REV COUNTER



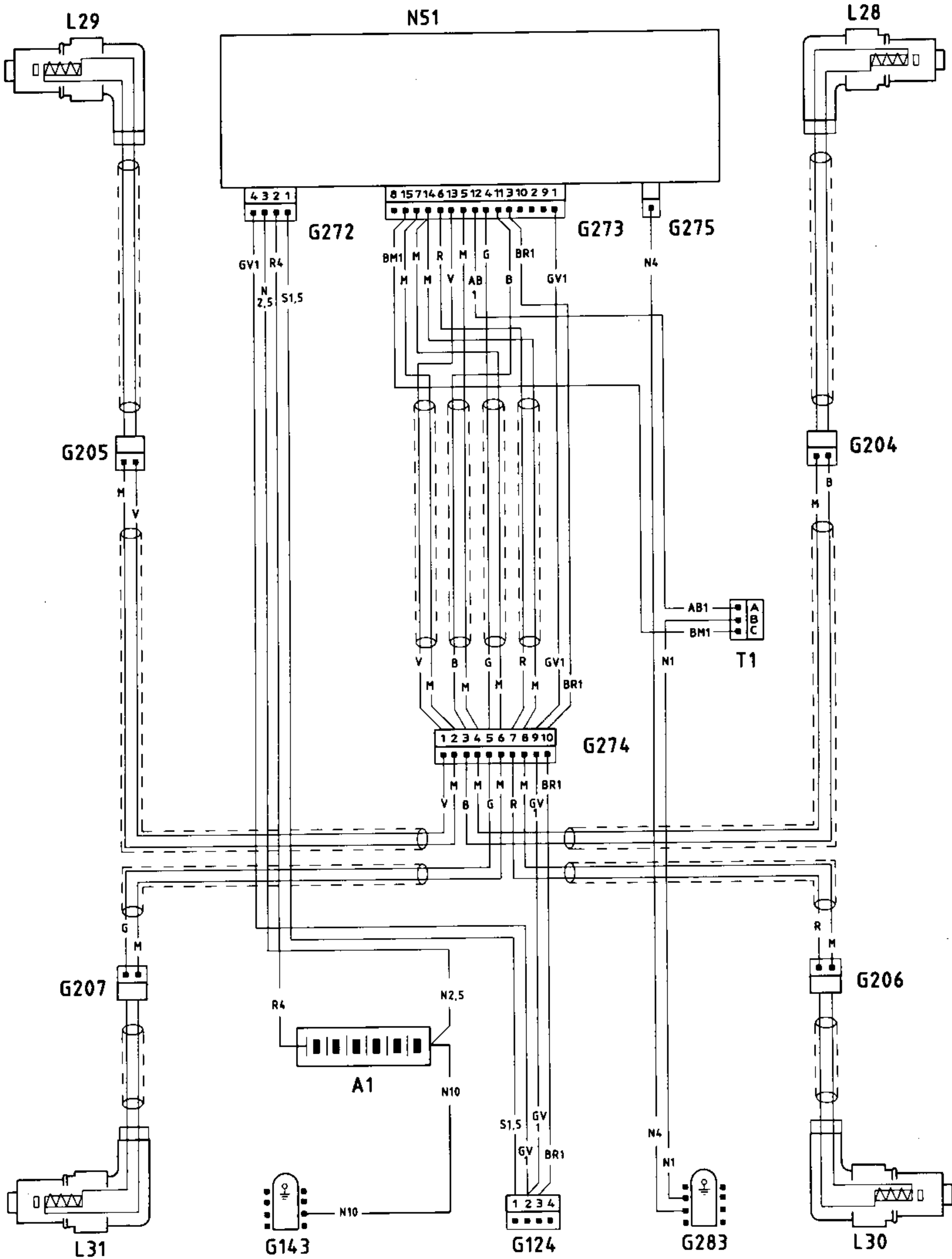
WIRING DIAGRAMS

HANDBRAKE



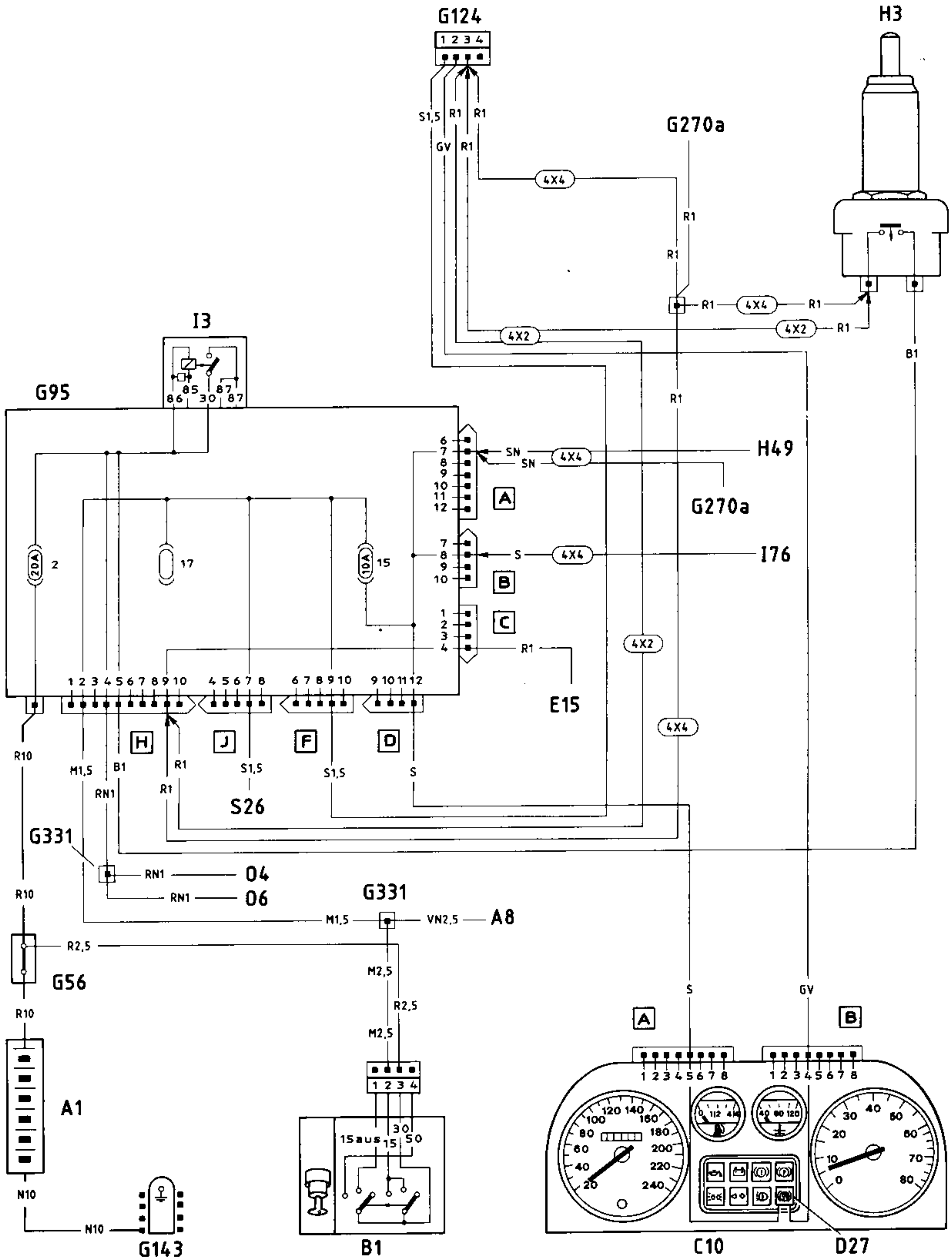
# BRAKING SYSTEM

A.B.S. (Diagram A)



WIRING DIAGRAMS

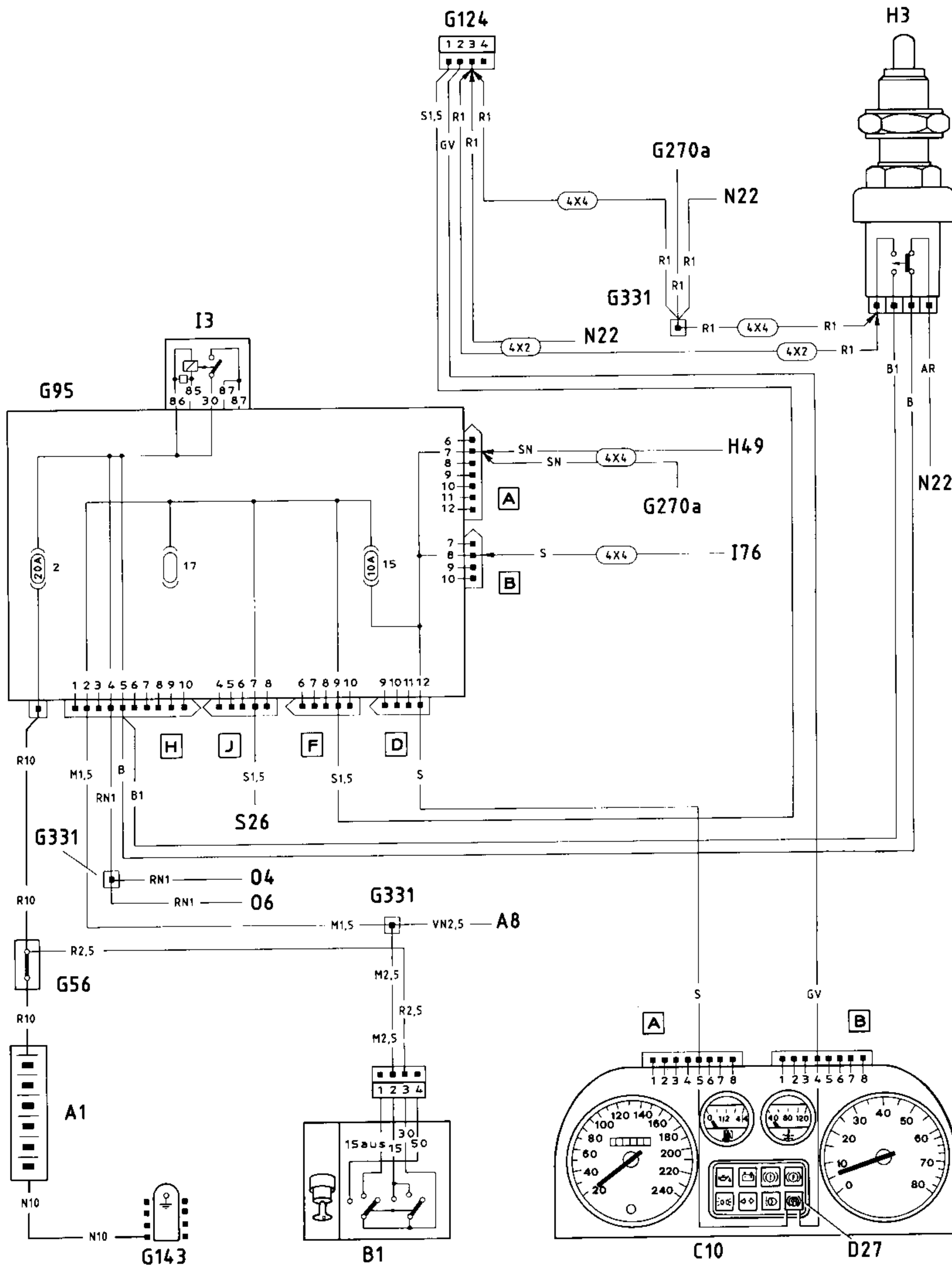
A.B.S. (versions not equipped with ALFA CONTROL) (Diagram B)





WIRING DIAGRAMS

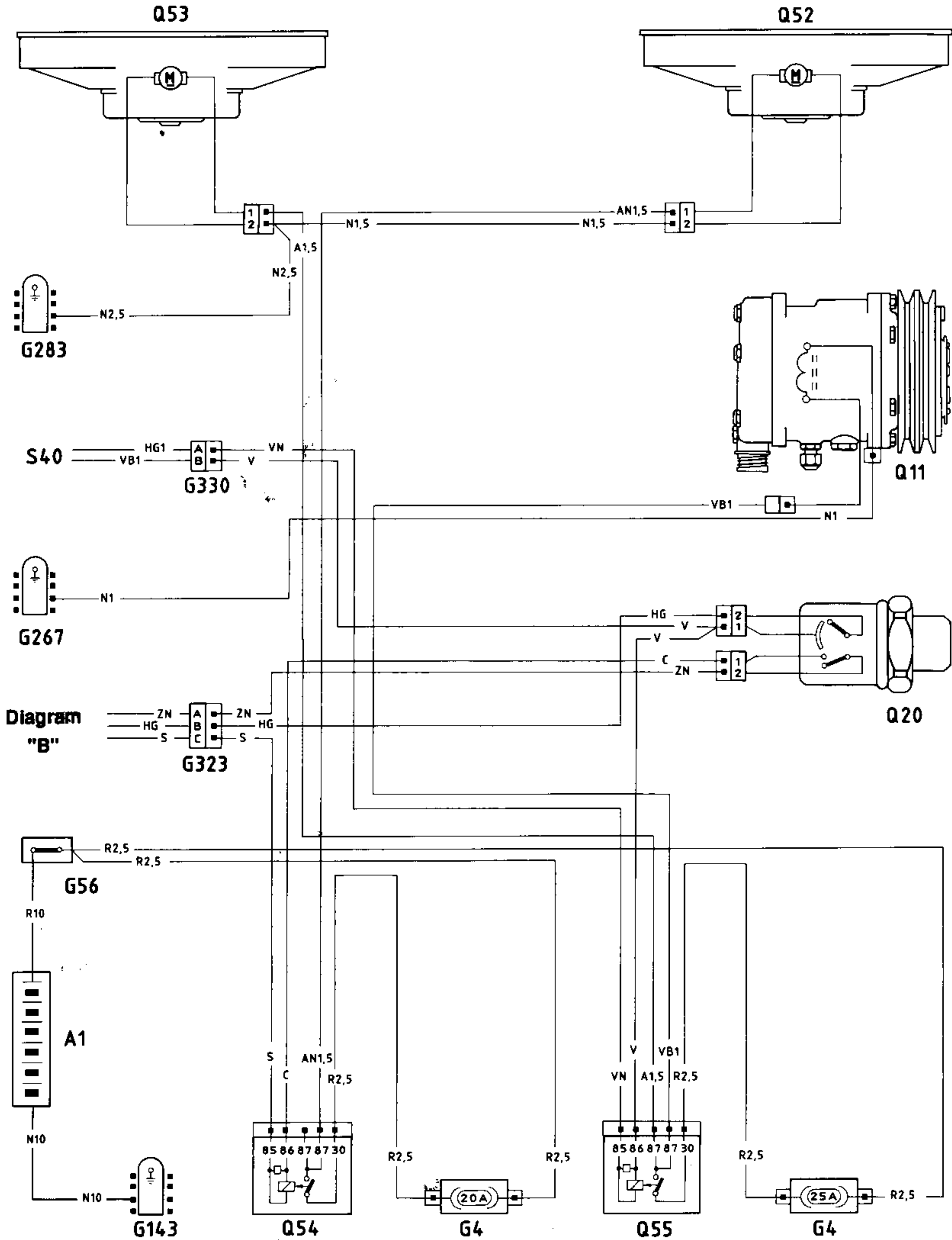
A.B.S. (versions equipped with ALFA CONTROL) (Diagram B)





WIRING DIAGRAMS

AIR CONDITIONING (versions with I.A.W. electronic injection) (Diagram A)



AIR CONDITIONING (excluding versions with I.A.W. electronic injection) (Diagram A)

