

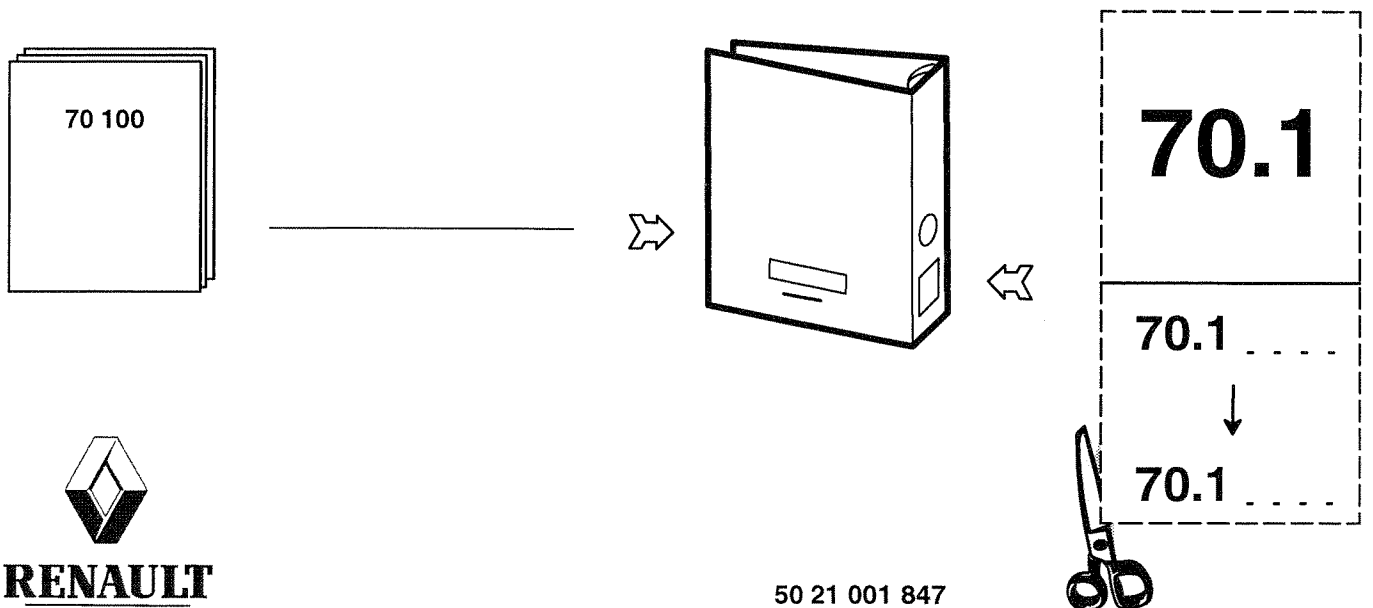
# 70 100 – AN – 07.2001

## ELECTRICS

<b>ELECTRICS</b>	<b>VEHICLES</b>
<b>ELECTRICAL EQUIPMENT</b>	<b>RENAULT MIDLUM DCI</b>

**NOTE**

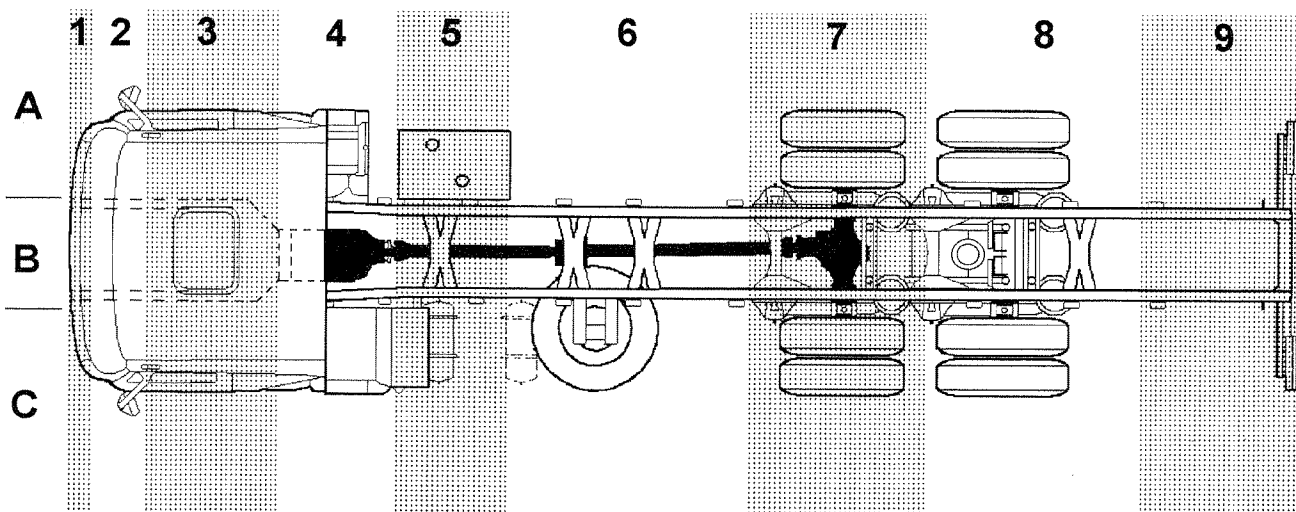
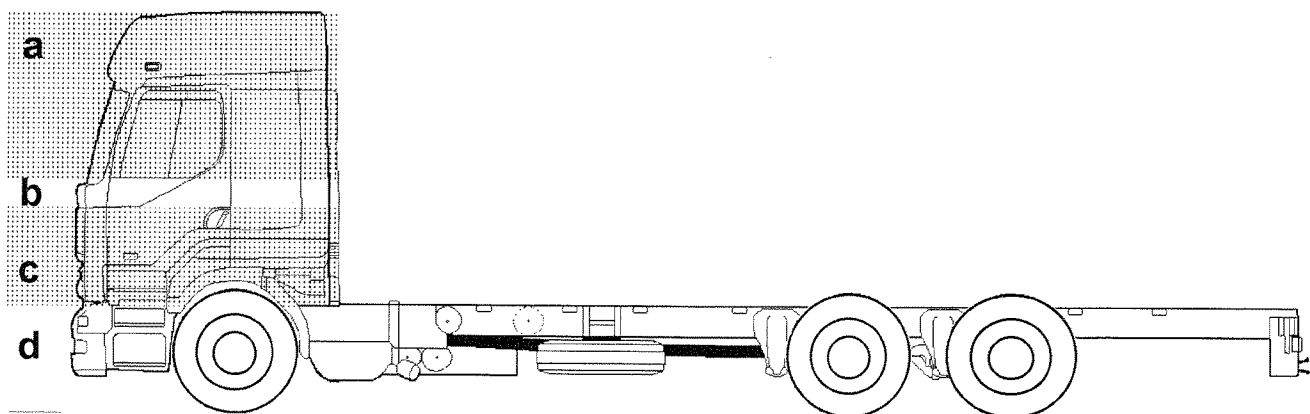
The above information may change in the course of time.  
 Only the "Consult" section of the workshop manuals repertory in standard N° 10320 serves as reference.



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**GENERALITIES**



70 0001

## VEHICLE VOLUMINAL BREAKDOWN

The vehicle is broken down into several zones each designated by an item number.

### Heightwise breakdown

Reserved for the cab, four zones designated by a small letter.

### Widthwise breakdown

Three zones designated by a capital letter.

- A**: RH side and RH sidemember,
- B**: central part,
- C**: LH side and LH sidemember.

### Lengthwise breakdown

Nine zones designated by a figure.

Zone 1 includes:

- on the chassis, the bumper and the appliances it supports.
- on the cab, the front end elements with access through the front grille.

Example :

- A1** : RH bumper (headlamps...)
- C3** : LH front roadwheels (ABS sensor)
- C2b** : LH fascia panel
- A3c** : passenger seat

## PINPOINTING OF APPLIANCES

A "Pinpointing of Appliances" booklet situates each on-vehicle electrical appliance (on chassis, in cab and on major unit).

### NOTE

Each appliance may be pinpointed:

- In the electrical diagram by the voluminal breakdown.
- On the vehicle in the "Pinpointing of Appliances" booklet. Such localization refers to the plate.

## PINPOINTING EXAMPLES

### In the "Electrical diagram" booklet:

2101 – Battery N°1 . . . . (01A)      A5d

*2101*: Appliance reference

*Battery N°1*: key to appliance

*A5d*: Pinpointing of appliance after voluminal breakdown (see page A2).

*01A*: Pinpointing of appliance in electrical diagram (plate 01A).

### In the "Electrical diagram" booklet:

9201 – Vehicle master ECU

*9201*: Appliance reference

*Vehicle master ECU*: key to appliance

*27B/C*: Pinpointing of appliance in electrical diagram (plate 27B and plate 27C).

Such localization also applies for fuses, relays and diodes.

## HOW TO READ THE DIAGRAMS

The diagram consists of several plates numbered in the bottom right-hand corner.

A wire connecting appliances located in different plates includes a connection address.

Example:

08A = see plate 08A

4001 -B = Doors central locking box

### NOTE

The index “-B” is not to be interpreted.

### Connectors :

The connectors are identified by a figure indicating the number of ways and by one or several letters indicating the colour.

BLACK	(N)
BROWN	(M)
RED	(R)
ORANGE	(Or)
YELLOW	(J)
GREEN	(Ve)
BLUE	(Bu)
PURPLE	(Vi)
GREY	(G)
WHITE	(Bc)

Example: 8J = yellow coloured 8-way connector

An index is added when several connectors on the same appliance have an identical number of ways and the same colour.

Example:

- 43N1 = 43-way black connector N° 1

- 43N2 = 43-way black connector N° 2

A connector on the connection unit is identified by 3 figures.

Example:

- 970N = black connector N° 970 (C970).

## PRE-EQUIPMENT

Circuits represented with dotted lines indicate a connection solution or an optional assembly.

## CONNECTION UNIT

The connection unit provides the electrical link between chassis and cab.

Each face of the unit is detailed in the “Connection unit” booklet.

### Interface connector

This type of connector makes a direct link between two faces of the connection unit.

Example:

**D / C** interface connector

**C 918 / C 815** : The reference N5 in italics corresponds to the face C connector.





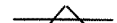
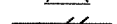
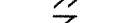




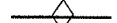

### Wire – connector links

A table links each wire to its connectors. The section and terminal number of each connector are specified.

The wire numbers are classified numerically.

Example: Wire **51** = section 1, connector **821**: terminal **3** and connector **906**: terminal **B1**.

**CROSS-SECTION AND COLOUR OF CABLES**

	75 mm <sup>2</sup>
	60 mm <sup>2</sup>
	50 mm <sup>2</sup>
	25 mm <sup>2</sup>
	16 mm <sup>2</sup>
	10 mm <sup>2</sup> – Ivory
	7 mm <sup>2</sup> – Pink
	5 mm <sup>2</sup> – Ivory
	3 mm <sup>2</sup> – Pink
	2 mm <sup>2</sup> – Grey
	1 mm <sup>2</sup> – Green
	0.6 mm <sup>2</sup> – Grey
	0.35 mm <sup>2</sup> – Orange

## WIRING HARNESES

Each plate represents the routing of one or several wiring harnesses connected to a sub-assembly or function. The outline of the vehicle pinpoints the wiring harnesses.

Connectors identified by the letter **C** followed by 3 figures are indicated on each harness.

A key opposite each plate defines their assignment.

On the back of the key are given details of connectors linked to the harnesses of the plate.

### Key to connectors

**C129** . . . . . 4618 – Driver's overhead lamp

*C129* : connector item number

*4618* : appliance reference number

*Driver's overhead lamp* : key to the appliance

The appliance reference number and key provide the link to the electrical diagram.

### Optional wiring harnesses

Connectors assigned with indexes **\*1** or **\*2** belong to optional harnesses.

Example of connector reference number

**C129** : connector on standard harness

**C137\*1** : connector on option 1 harness

**C141\*2** : connector on option 2 harness

At the end of the key is shown the make-up of each optional harness.

### Links between wiring harnesses

Some harnesses are joined together by link-up connectors. These are indicated at the end of the key.

Example :

**C476\*1** → **C477\*1** (*Gb14*)

Connector **C476\*1** on plate Ga2 is linked to connector **C477\*1** on plate Gb14.

### Detail of connectors

Each drawing represents the structure of a connector.

Example :

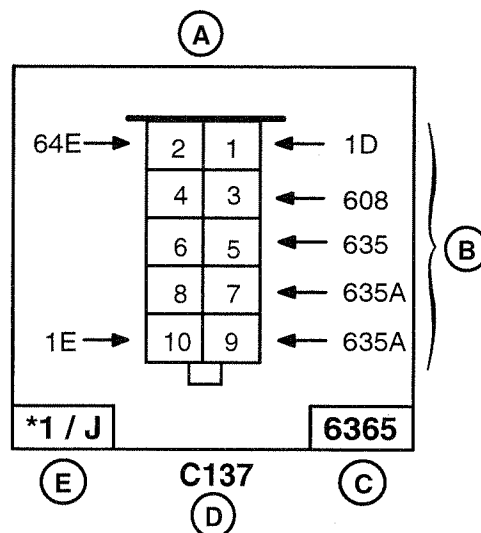
A : outline of the connector

B : item number and location of the wires

C : reference number of the appliance

D : item number of the connector

E : option or colour of the connector



### IMPORTANT

*Bearing in mind the presence of numerous electronic appliances, the use of a test lamp is to be avoided. Preferably use a needle or digital type multi-meter.*

***It is forbidden to apply voltage to the terminals of electronic appliances or you may cause irreparable damage to the hardware. Consequently, no line continuity measurement should be made on the wires without having previously disconnected the appliances from the lines concerned.***



**SCHEMATIC DIAGRAMS**

## KEY TO THE APPLIANCES

0102 – Electrical connection terminal	–	C4d
0117 – Protection diodes	18	A2c
1100 – Fuse	–	–
1200 – Fuses and relays connection unit "BFR"	–	A2b
1211 – Connecting board	–	–
1220 – Cab top ledge	47	C2a
1228 – Battery tray	–	C4d
1229 – Chassis–cab connection unit	46/47/48	A2d
2100 – Trailer socket, 15–pin	–	B9d
2101 – Battery N° 1	1/2/3	C4d
2102 – Battery N° 2	1/2/3	C4d
2112 – 24 Volt socket	27	C2c
2113 – Trailer socket, 7–pin type 24 N	30	B9d
2115 – Trailer socket, 7–pin type 24 S	30	B9d
2116 – Trailer socket, 7–pin type "EBS"	30	B9d
2133 – 12 volt socket	27	B2d
2141 – Available power supply (lighting)	46/47/48	C4d
2142 – Available power supply (after ignition)	46/47/48	C4d
2147 – Available power supply (after master switch)	46/47/48	C4d
2154 – Plug socket (150 Amps)	–	C4d
2164 – Electrical master switch	2	C4d
2165 – Master switch	1	C4d
2200 – Anti–theft electronic box	5/21	C2a
2196 – After ignition power supply relay N° 1	4	A2c
2197 – After ignition power supply relay N° 2	4	A2c
2211 – Starter	7	B3d
2212 – Starting relay	7	A2c
2219 – Transponder antenna	5	C2b
2220 – Transponder ignition key	5	C2b
2221 – Electronic anti–theft "Information" warning lamp	35	C2b
2261 – Steering lock and starting control	1/2/3/5/21	C2b
2266 – Engine stop control (cab tilted)	43/44	A2c
2311 – Alternator	1/2/3	B2c
2314 – Battery charge warning lamp	35	C2b
2400 – Fuel filter clogging pressure switch	43/44	C4d
2414 – Preheating relay	6	C4d
2422 – Fuel preheater relay	8	A2b
2423 – Renault V.I. fuel preheater	8	C4c
2452 – Preheating resistor N° 1	6	B3c
3101 – Flasher unit	14/21	A2a
3117 – Rigid or tractor flasher repeater lamp	35	C2b
3118 – Trailer flasher repeater lamp	35	C2b
3161 – Hazard lights control	14/21	B2b
3211 – RH front flashing lamp	14	A1d
3212 – LH front flashing lamp	14	C1c
3213 – RH side flashing lamp	14	A3d
3214 – LH side flashing lamp	14	C2d
3410 – Roof trumpet horn solenoid valve	14	C2d
3411 – Horn	14	A2b
3417 – Revolving beacon 1	15	C3a
3418 – Revolving beacon 2	15	A3a
3419 – Revolving beacon(s) relay	15	A2b
3462 – Revolving beacon(s) control	15	C2a
3512 – Stop lights relay	15	A2b
3513 – Fog light(s) relay	10	A2b
3517 – Fog light(s) warning lamp	34	C2b
3611 – RH front marker lamp	9	A3a
3612 – LH front marker lamp	9	C3a
3618 – Side/parking lights relay	9	A2b
3716 – LH central marker lamp	9	C5d
3717 – RH central marker lamp	9	A4d
3721 – RH rear lights	–	A0d
– flashing	14	A9d
– stop	15	A9d
– fog	–	A9d
– reverse	15	A9d
– side/parking	9	A9d

## KEY TO THE APPLIANCES

3722 – LH rear lights	–	C9d
– flashing	15	C9d
– stop	15	C9d
– fog	10	C9d
– reverse	–	C9d
– side/parking	9	C9d
4001 – Doors central locking box	18	B2a
4047 – Passenger's side electric door striker	18	A3b
4048 – Driver's side electric door striker	18	C3b
4078 – LH door switch	24	C2C
4079 – RH door switch	24	C2c
4111 – Cigar lighter	26/27/28	C2b
4122 – LH swivelling defrosting rearview mirror	22	C2a
4126 – Defrosting rearview mirrors relay	22	A2c
4135 – Electric roof ventilator motor	19	B3a
4136 – Comfort accessories relay	27	A2c
4137 – Windscreen defrosting resistor	29	A1c
4138 – Windscreen defrosting time–delay relay	29	A1c
4160 – Electric roof ventilator control	19	C2a
4161 – External rearview mirrors swivelling control	22	C2b
4163 – Defrosting rearview mirror control	22	C2a
4200 – Voltage dropper (12 Volt socket)	27/28	A2c
4202 – Radio	26/27/28	C2a
4209 – Voltage dropper (telecommunications)	26/27/28	C2a
4210 – Antenna	26/27/28	B2a
4012 – LH rear door contact	24	A4c
4013 – RH rear door contact	24	C4c
4214 – Driver's loudspeaker	26/27/28	C2a
4220 – Radio remote control	34	C2b
4221 – Passenger's loudspeaker	26/27/28	A2a
4222 – Driver's heated seat	27	C3c
4123 – RH swivelling defrosting rearview mirror	22	A2a
4228 – C.B. radio	26/27/28	C2a
4229 – Telephone	26/27/28	C2a
4250 – Voltage dropper (headlamps adjustment)	13	A2c
4251 – Voltage dropper (extra 12V socket)	27	A4c
4271 – On–board management pre–arrangement (TMC 2001)	21	A1b
4272 – On–board management pre–arrangement (EUTEL TRACS)	21	A1b
4311 – Driver's window winder motor	19	C2c
4312 – Passenger's window winder motor	19	A2c
4313 – RH rear door window winder motor	19	A3a
4314 – LH rear door window winder motor	19	A3c
4361 – Driver's window winder control	19	C2b
4362 – Passenger's window winder control	19	A2b
4363 – RH rear door window winder control	19	A3c
4364 – LH rear door window winder control	19	A3c
4365 – Passenger's window winder control (driver's side)	19	C2b
4421 – Fan coil heater(s)	32	B2c
4423 – Independent heater	33	A3c
4469 – Independent heater timer control	33	C3a
4479 – Driver's cab ventilation control	32	B3c
4487 – Temperature variator	33	C3a
4512 – Air conditioning compressor	32	B2c
4566 – External temperature sensor	42	A2b
4602 – Rear map reader	24	A3d
4605 – LH rear door overhead lamp	24	A3c
4606 – RH rear door overhead lamp	24	C3a
4607 – LH rear door step lamp	24	C3a
4608 – RH rear door step lamp	24	A3c
4617 – Top bunk overhead lamp	24	C4a
4618 – Driver's overhead lamp	24	B2a
4625 – Passenger's overhead lamp	24	B2a
4650 – Driver's step lighting	24	C2c
4651 – Passenger's step lighting	24	A2c
4919 – Fuel feed pump	33	B3c
5266 – Accelerator pedal position sensor	42	C2c
5301 – Windscreen wiper speed controller	25	A2c

## KEY TO THE APPLIANCES

5310 – Headlamp washer time–delay relay	25	A2C
5311 – Windscreen wiper motor	25	B1c
5314 – Windscreen washer pump	25	C1c
5319 – Headlamps washer pump	25	A2d
5320 – Windscreen wiper disabling relay	25	A2c
5561 – Gate valves illumination control	24	C2a
6119 – Dipped beam headlights relay	10	A2b
6121 – Main beam headlights relay	10	A2b
6123 – Main beam headlights warning lamp	35	C2b
6124 – Headlight, dipped headlight and left side lamp	9	C1b
6125 – Headlight, dipped headlight and right side lamp	9	A1d
6132 – Dipped beam headlights warning lamp	35	C2b
6138 – LH headlamp adjustment motor	13	C1d
6139 – RH headlamp adjustment motor	13	C2b
6145 – Daytime lights shunt	12	A2b
6166 – Headlights adjustment control	13	C2b
6167 – Steering column fingertip controls	5	C2b
– anti–theft	5	C2b
– side/parking lights	9	C2b
– main/dipped beam headlights	10	C2b
– fog driving lamps / fog lamps	10	C2b
– horn / direction indicator	14	C2b
– windscreen wiper / screen wash / headlamp wash	25	C2b
– cruise control	42	C2b
6211 – LH fog driving lamp	10	C1d
6212 – RH fog driving lamp	10	A1d
6214 – Fog driving lights relay	10	A2b
6215 – Long range driving lights relay	11	A2b
6218 – Fog driving lights warning lamp	35	C2b
6221 – RH long range driving lamp	11	A1d
6222 – LH long range driving lamp	11	C1d
6261 – Long range driving lights control	11	B2b
6315 – Working floodlight warning lamp	35	C2b
6316 – Reversing lights relay	15	A2c
6325 – Reverse gear buzzer	15	B9d
6365 – Reverse gear buzzer control	15	C2a
7100 – Current limiter	16	C4d
7114 – Electronic tachograph	16	C2b
7115 – Hourmeter	36	A3c
7362 – Coolant temperature sensor	43/44	B3c
7368 – Oil pressure sensor	43/44	–
7411 – Fuel level gauge	34	C2b
7462 – Fuel level transmitter	34	A5d
7519 – Diagnostics socket	17	C3c
7520 – Diagnostics socket N° 2	42	–
7524 – “SAE” socket	17	C3c
7614 – Principal display	21/34/35	C2b
8001 – ABS/ASR ECU	37/38	A2c
8011 – ABS safety warning lamp	35	C2b
8013 – Trailer ABS safety warning lamp	35	C2b
8014 – ABS LH front roadwheel electrovalve	37/38	C3d
8015 – ABS RH front roadwheel electrovalve	37/38	A3d
8016 – ABS LH rear roadwheel electrovalve	37/38	B7d/B8d
8017 – ABS RH rear roadwheel electrovalve	37	B7d/B8d
8032 – Electric retarder relay box	31	A2c
8034 – Electric retarder	31	B5d
8036 – Electric retarder cut–off relay	37/38	A2b
8059 – Electric or hydraulic retarder control	31	C2b
8061 – ABS LH front roadwheel sensor	37/38	C3d
8062 – ABS RH front roadwheel sensor	37/38	A3D
8063 – ABS LH rear roadwheel sensor	37/38	C7d/C8d
8064 – ABS RH rear roadwheel sensor	37/38	C7d/A8d
8100 – LH front brake pads wear switch sensor	36	C3d
8105 – Rear air pressure transmitter	34	C5d
8108 – RH front brake pads wear switch sensor	36	A3d
8109 – LH rear brake pads wear switch sensor	36	C9d
8117 – Brake lining wear warning lamp	34	C2b
8123 – Air pressure alert warning lamp	34	C2b
8138 – Brakes air pressure gauge	34	C2b

## KEY TO THE APPLIANCES

8140 – Braking circuit electrovalve (reversing safety) .....	15	–
8150 – Exhaust brake electrovalve .....	43/44	B3c
8159 – RH rear brake pads wear switch sensor .....	36	A9d
8165 – Rear brakes air pressure switch .....	34	C5d
8166 – Front brakes air pressure switch .....	34	C5d
8174 – Trailer and parking brakes air pressure switch .....	34	C5d
8178 – Parking brake indicator air pressure switch .....	42	B3c
8275 – Engine oil level sensor .....	43/44	B3d
8300 – ALLISON automatic gearbox–mounted PTO .....	42	B4c
8318 – Inter–wheel differential lock warning lamp .....	34	C2b
8364 – Inter–wheel differential lock switch .....	34	B7d/B8d
8439 – Neutral relay .....	40	B2c
8461 – Vehicle speed sensor .....	16	B4d
8466 – Neutral switch .....	7	B4d
8472 – Reverse gear switch .....	15	B4d
8502 – Suspension ECU .....	45	A2c
8522 – Suspension information warning lamp .....	34	C2b
8523 – Suspension alert warning lamp .....	34	C2b
8524 – Rear suspension electrovalve block .....	45	B7d/B8d
8560 – Remote control box .....	45	C3c
8572 – Suspension level RH rear sensor .....	45	A7d/A8d
8573 – Suspension level LH rear sensor .....	45	C7d/C8d
8602 – Automatic gearbox ECU .....	40/41	B3c
8663 – Gearbox control lever .....	41	B3c
8675 – Gearbox control solenoid valves block .....	40/41	B4c
8676 – Automatic gearbox turbine speed sensor .....	40	B4c
8677 – Automatic gearbox speed sensor .....	40	B4c
8678 – Automatic gearbox oil pressure sensor .....	40	B4c
8679 – Automatic gearbox oil level sensor .....	40	B4c
8680 – Gearbox oil temperature sensor .....	40	B4c
9200 – Boost air pressure and temperature sensor .....	43/44	B3c
9204 – EGR electrovalve .....	43	B3c
9201 – Vehicle master ECU (VECU) .....	21/42	B3c
9202 – Engine master ECU (EECU) .....	43/44	B3c
9208 – Fuel high pressure sensor .....	43/44	B3c
9210 – “VECU / EECU” ECU power supply relay .....	42	B3c
9212 – High Pressure pump, solenoid valve cylinder “2” .....	43/44	B3c
9213 – High Pressure pump, solenoid valve cylinder “1” .....	43/44	B3c
9220 – Unit pump N° 1 incorporating solenoid valve .....	43/44	B3c
9221 – Unit pump N° 2 incorporating solenoid valve .....	43/44	B3c
9222 – Unit pump N° 3 incorporating solenoid valve .....	43/44	B3c
9223 – Unit pump N° 4 incorporating solenoid valve .....	43/44	B3c
9224 – Unit pump N° 5 incorporating solenoid valve .....	43	B3c
9225 – Unit pump N° 6 incorporating solenoid valve .....	43	B3c
9228 – Flywheel speed sensor .....	43/44	B3c
9230 – Camshaft speed sensor .....	43/44	B3c
9400 – Airbag ECU .....	39	B3d
9401 – Driver’s seat belt pretensioner .....	39	B3C
9403 – Airbag rotary switch .....	39	C2b
9420 – Anti–theft alarm ECU .....	20/21	A2b
9421 – Road train perimetric protection pre–arrangement .....	20/21	A2b
9423 – Anti–theft alarm siren .....	20	A1d
9424 – Ultrasound transmitter .....	20	C2a
9425 – Ultrasound receiver .....	20	A2a
9426 – Road train monitoring module .....	20/21	A2b
9427 – Anti–aggression control .....	20	C2c
9428 – Front grille switch .....	20	A1c
21117 – Extra 12V socket .....	27	C3b
21119 – Available power supply (chassis) .....	32	B1c
45144 – Two–level air–conditioning pressure controller .....	15	C3c
81101 – Clutch switch and stop lights switch .....	15	C3c
21101 – Bodybuilder equipment control .....	46	A2b
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**PLATE 37**

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**ABS / ASR EQUIPMENT**

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**AVAILABLE POWER SUPPLIES**

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**CAN COMMUNICATIONS NETWORKS**

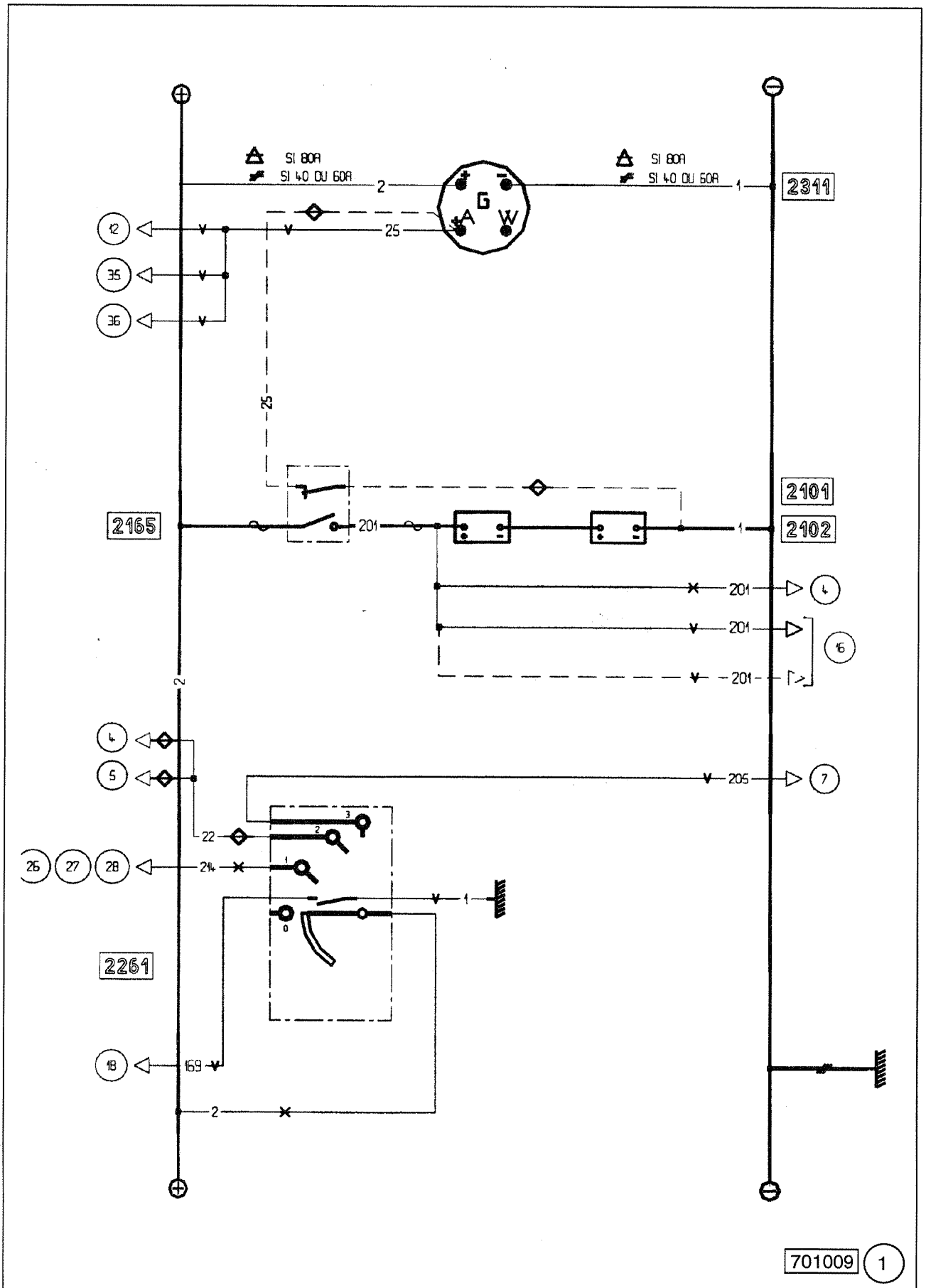
**PLATE 51**

**CAN COMMUNICATIONS NETWORKS**

**PLATE 52**

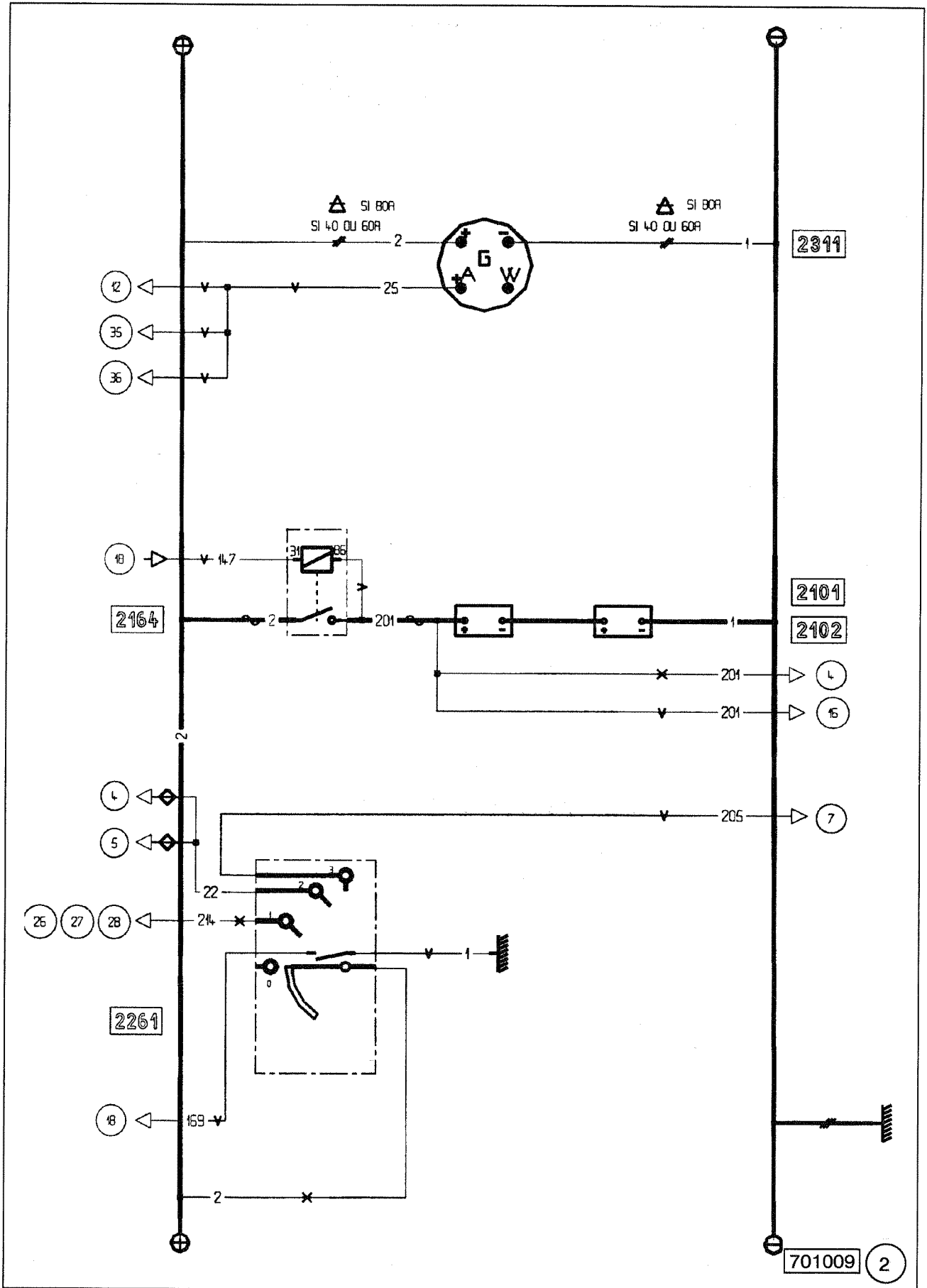
**CAN COMMUNICATIONS NETWORKS**



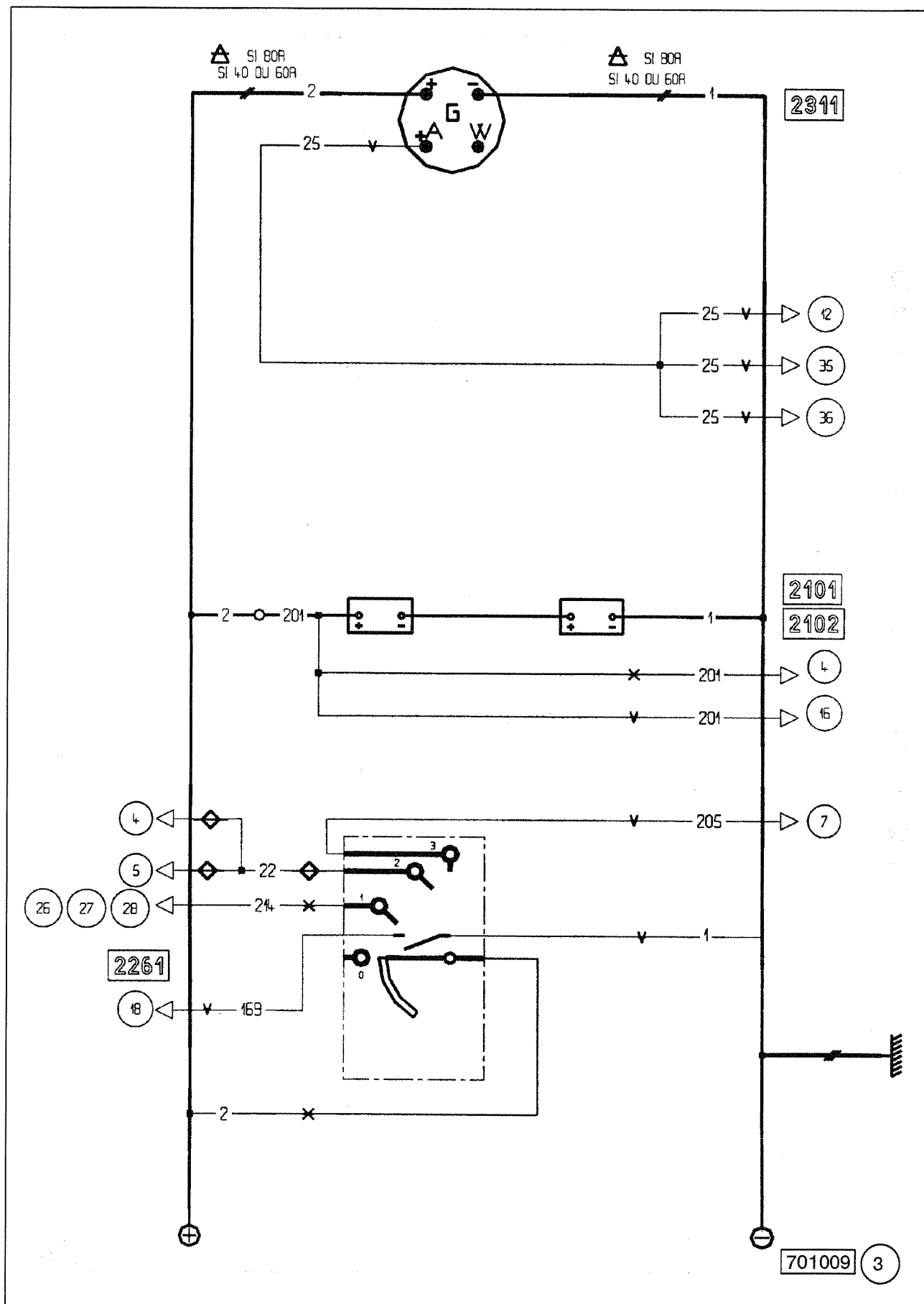


701009 1

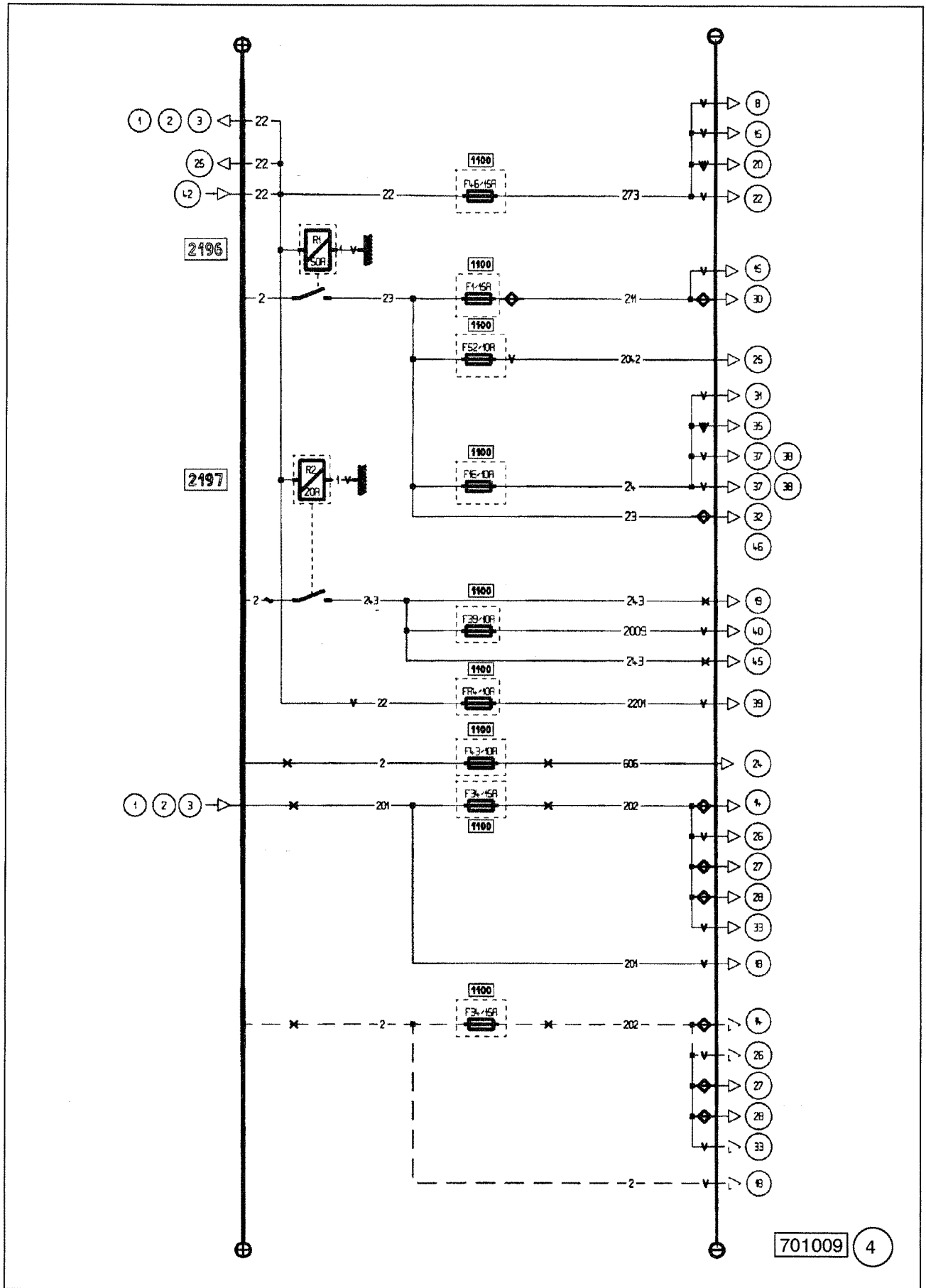
POWER SUPPLY / STARTING



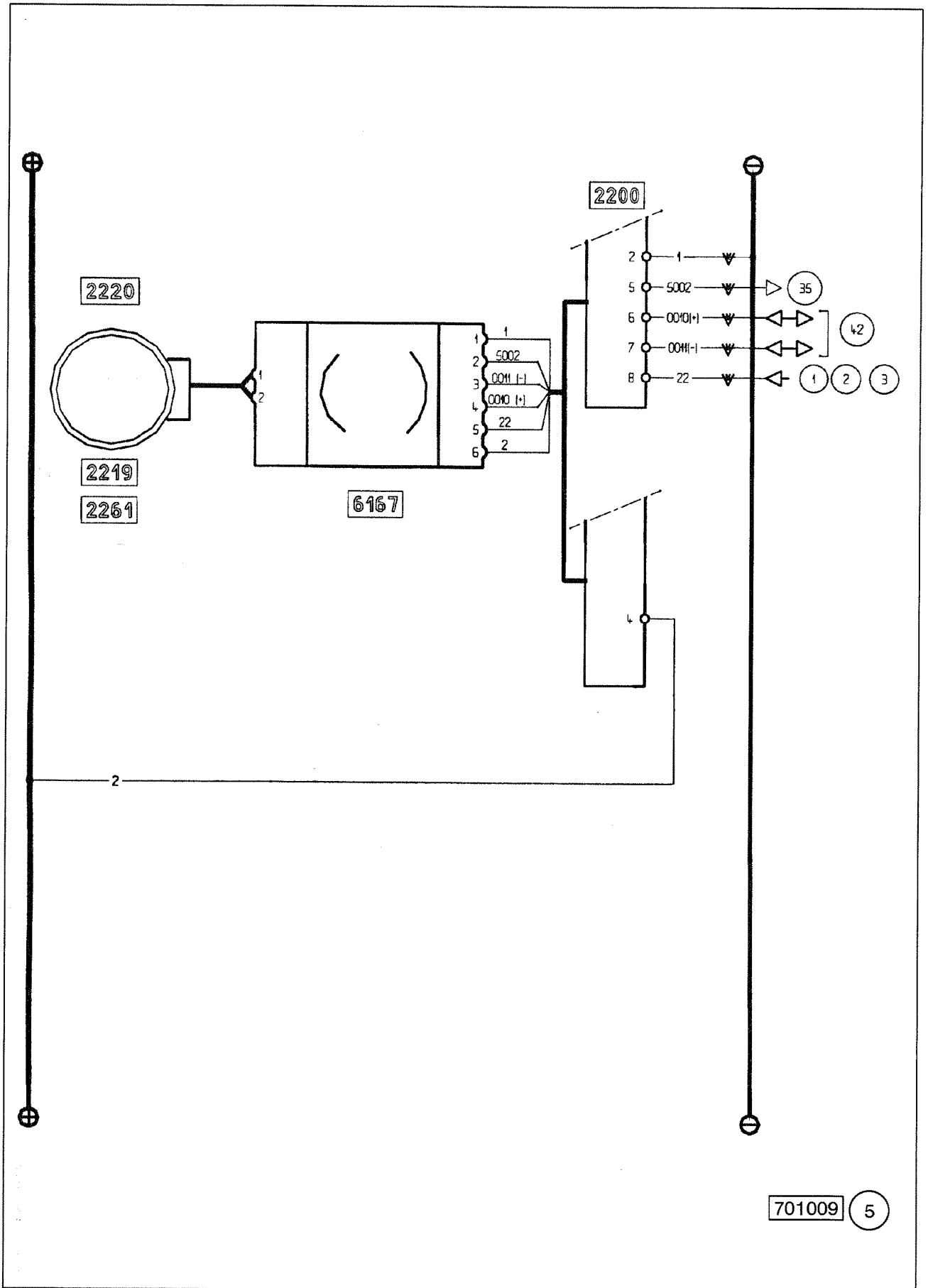
POWER SUPPLY / STARTING



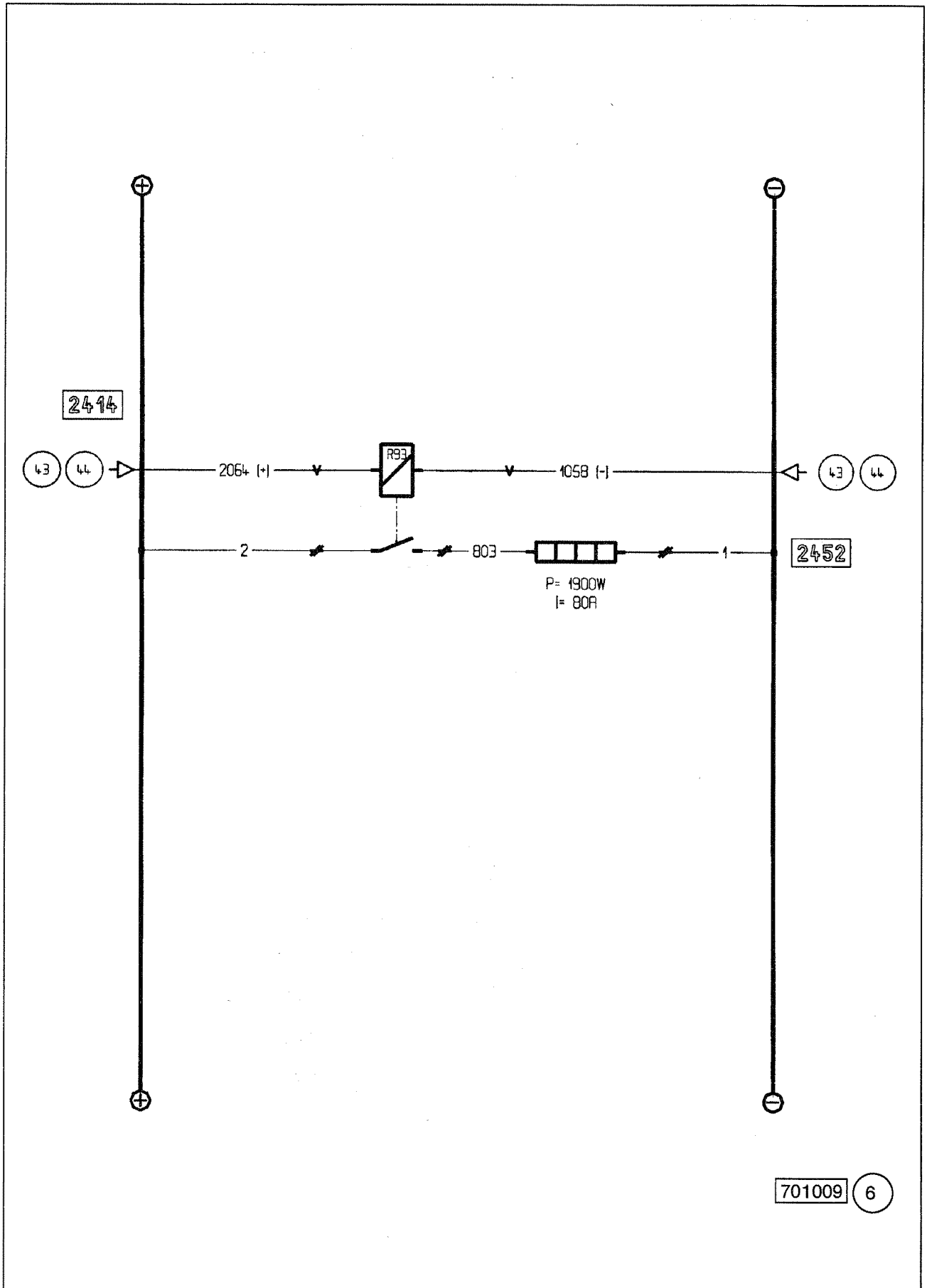
POWER SUPPLY / STARTING



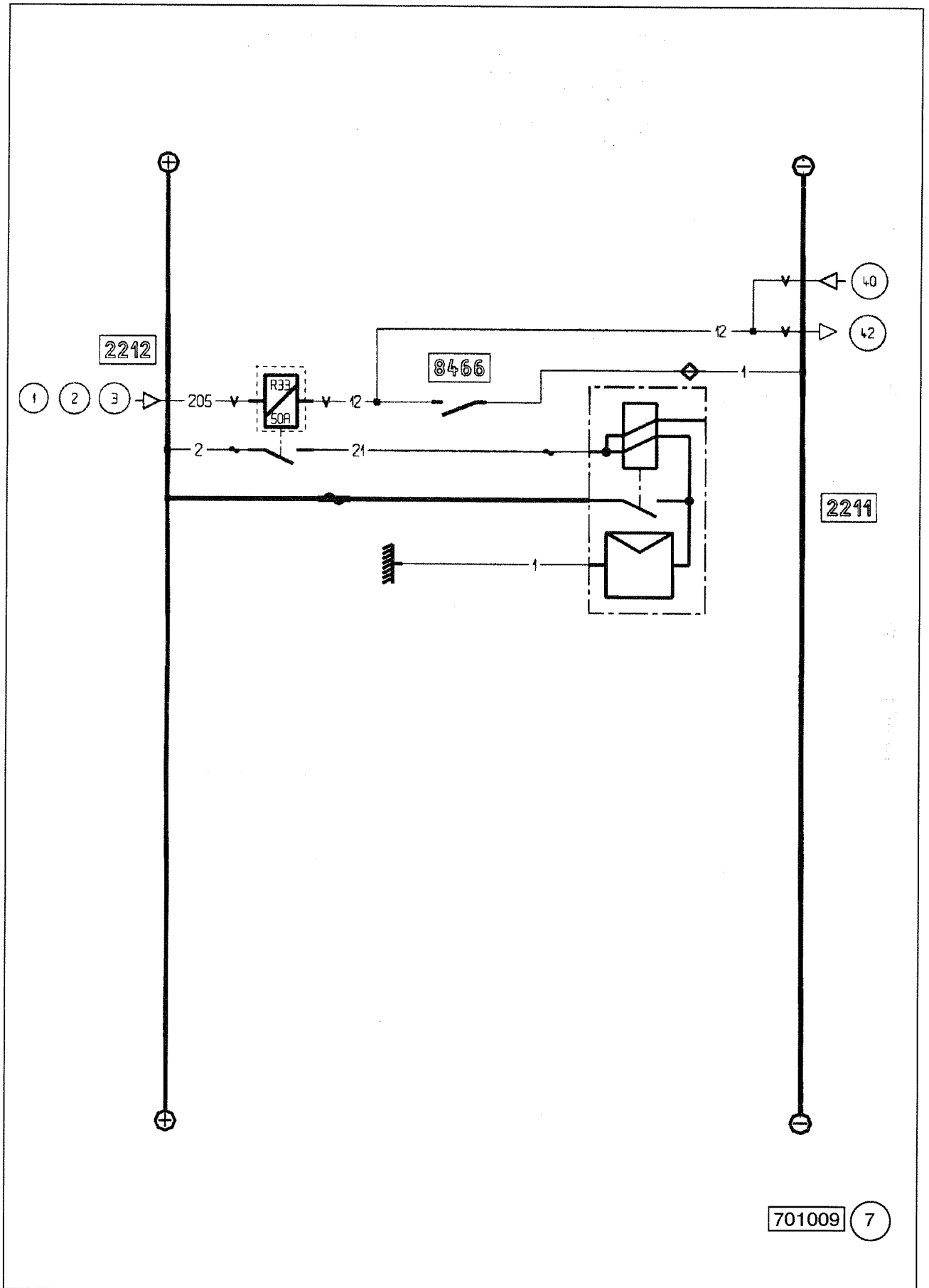
POWER SUPPLY



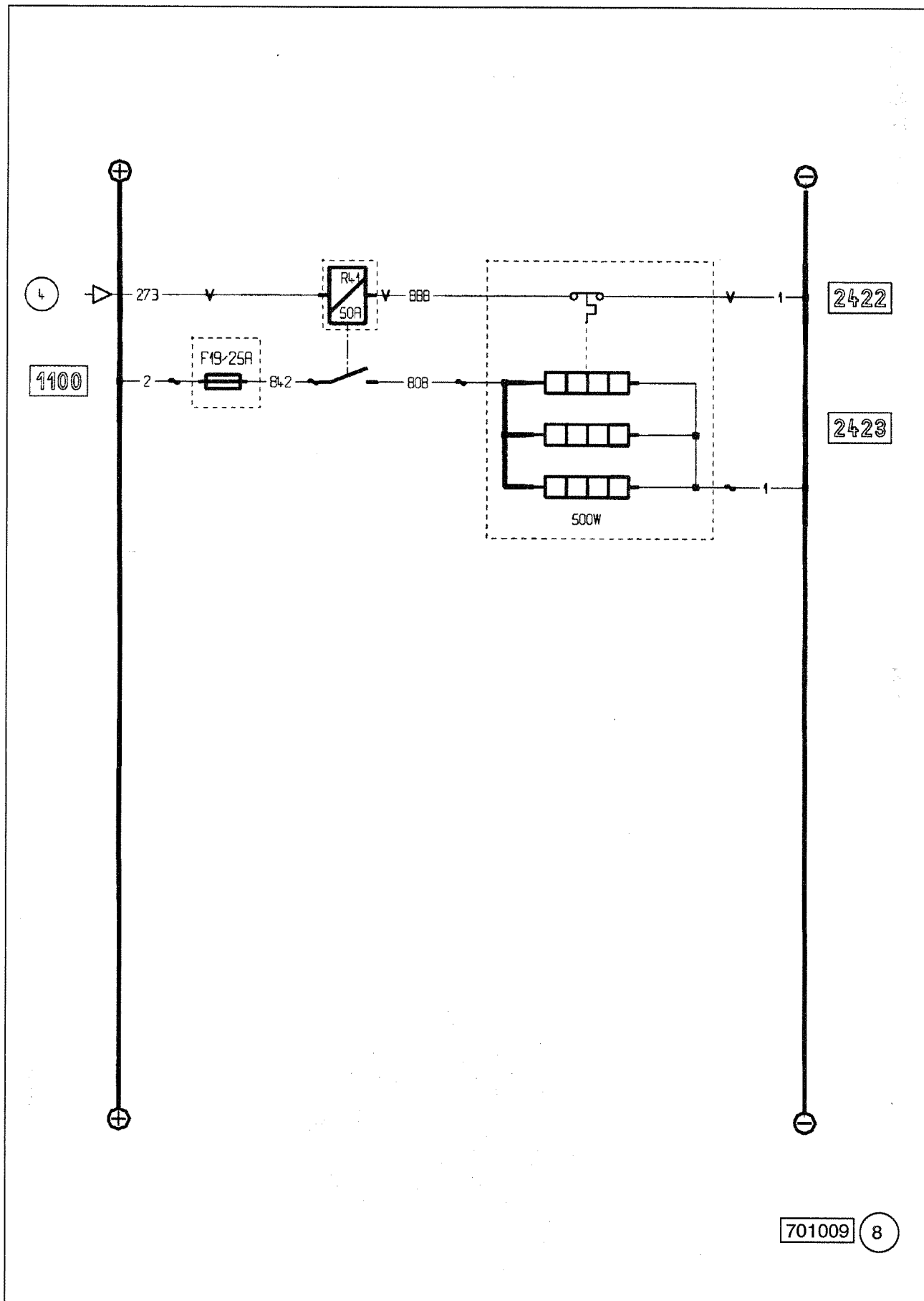
ELECTRONIC THEFT PROTECTION SYSTEM



PREHEATING



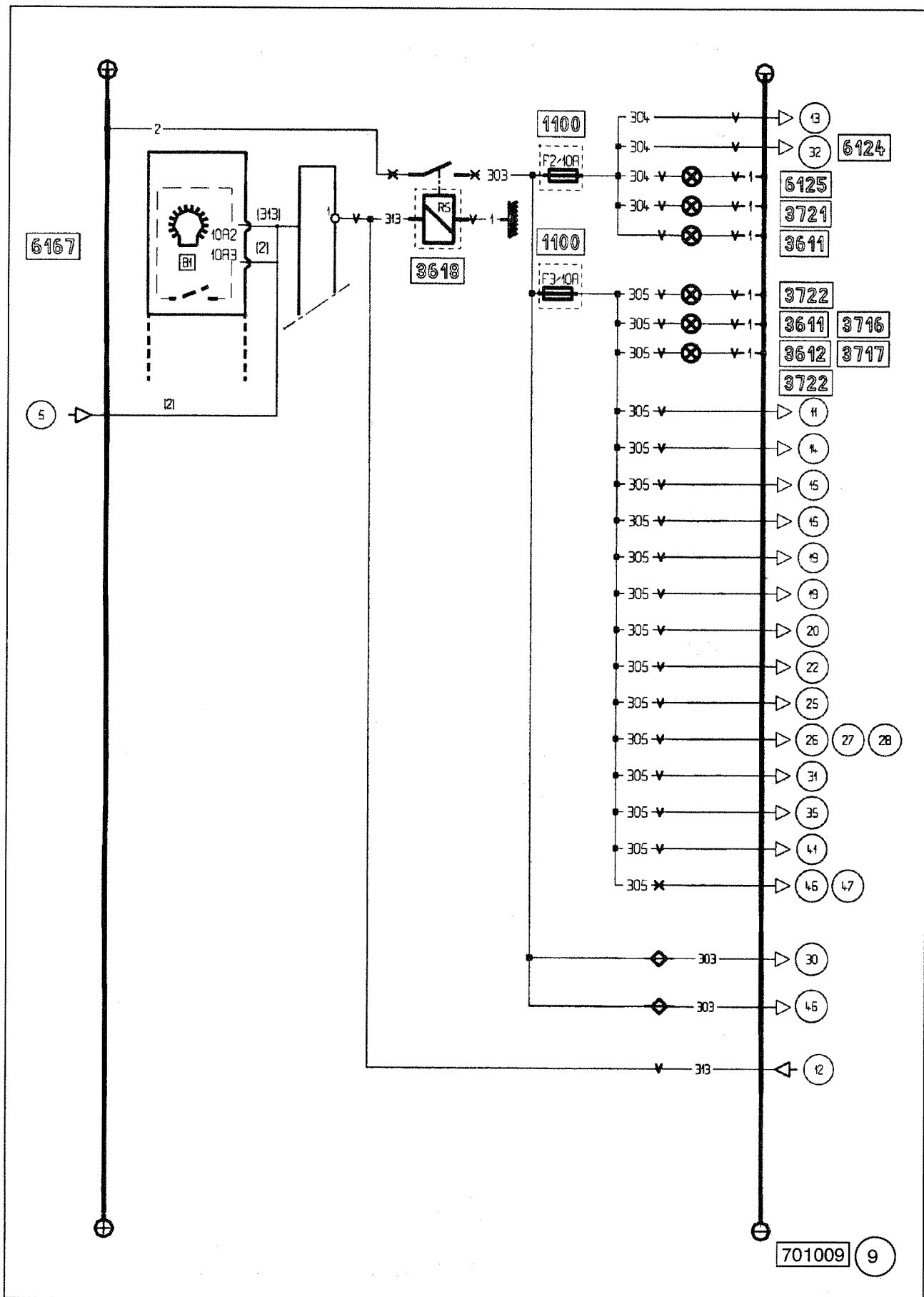
STARTING



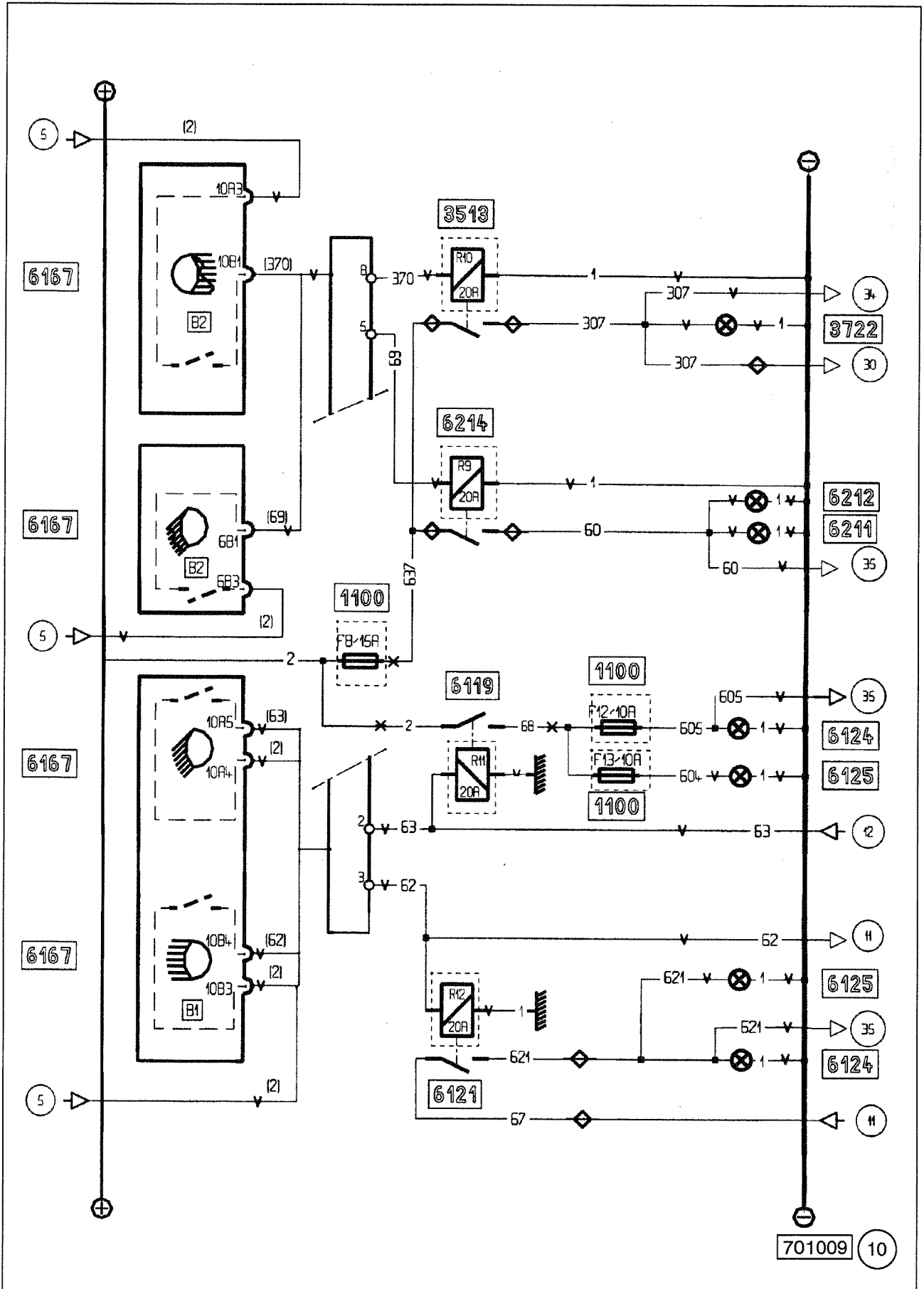
701009 8

FUEL HEATING

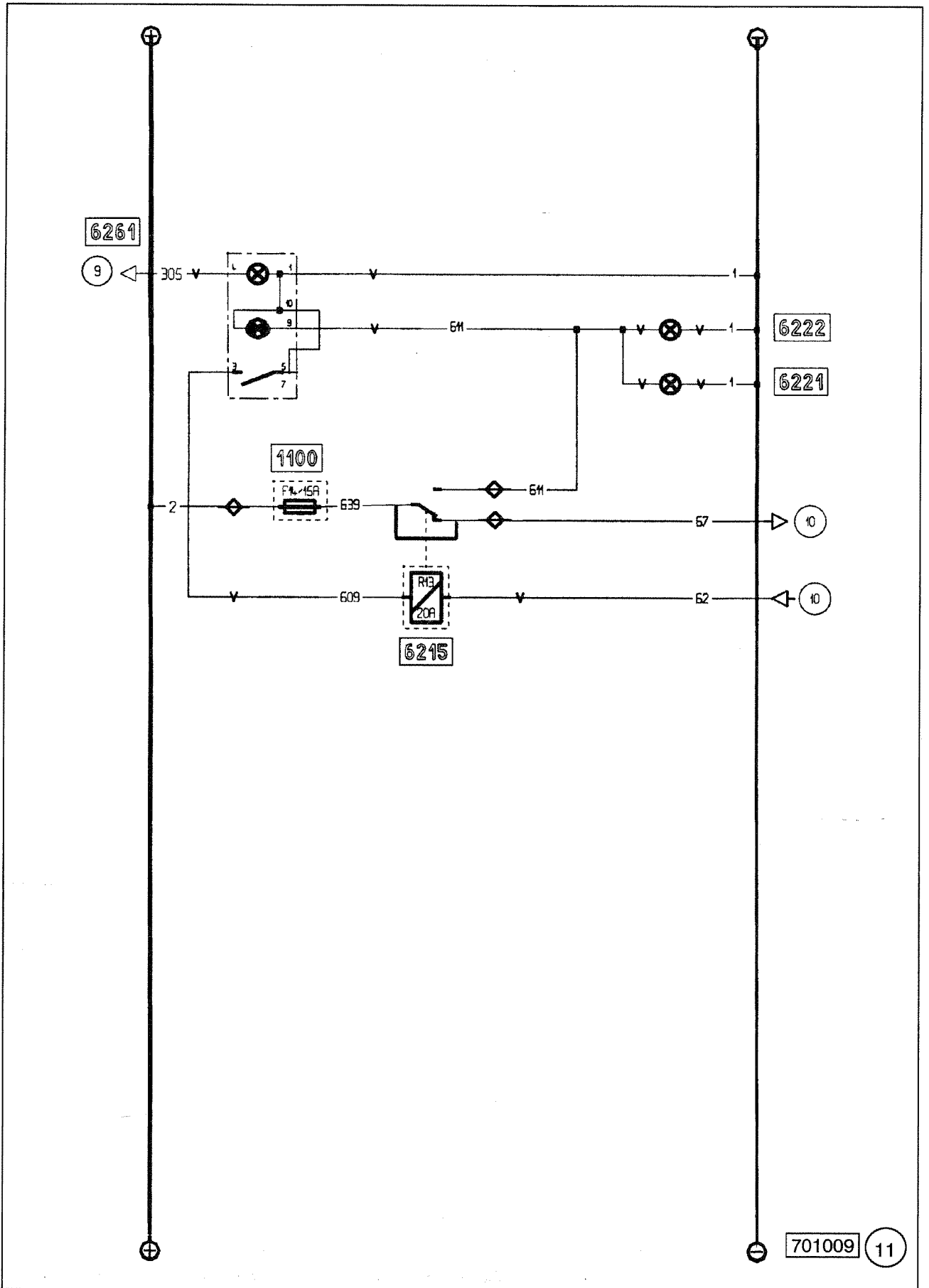




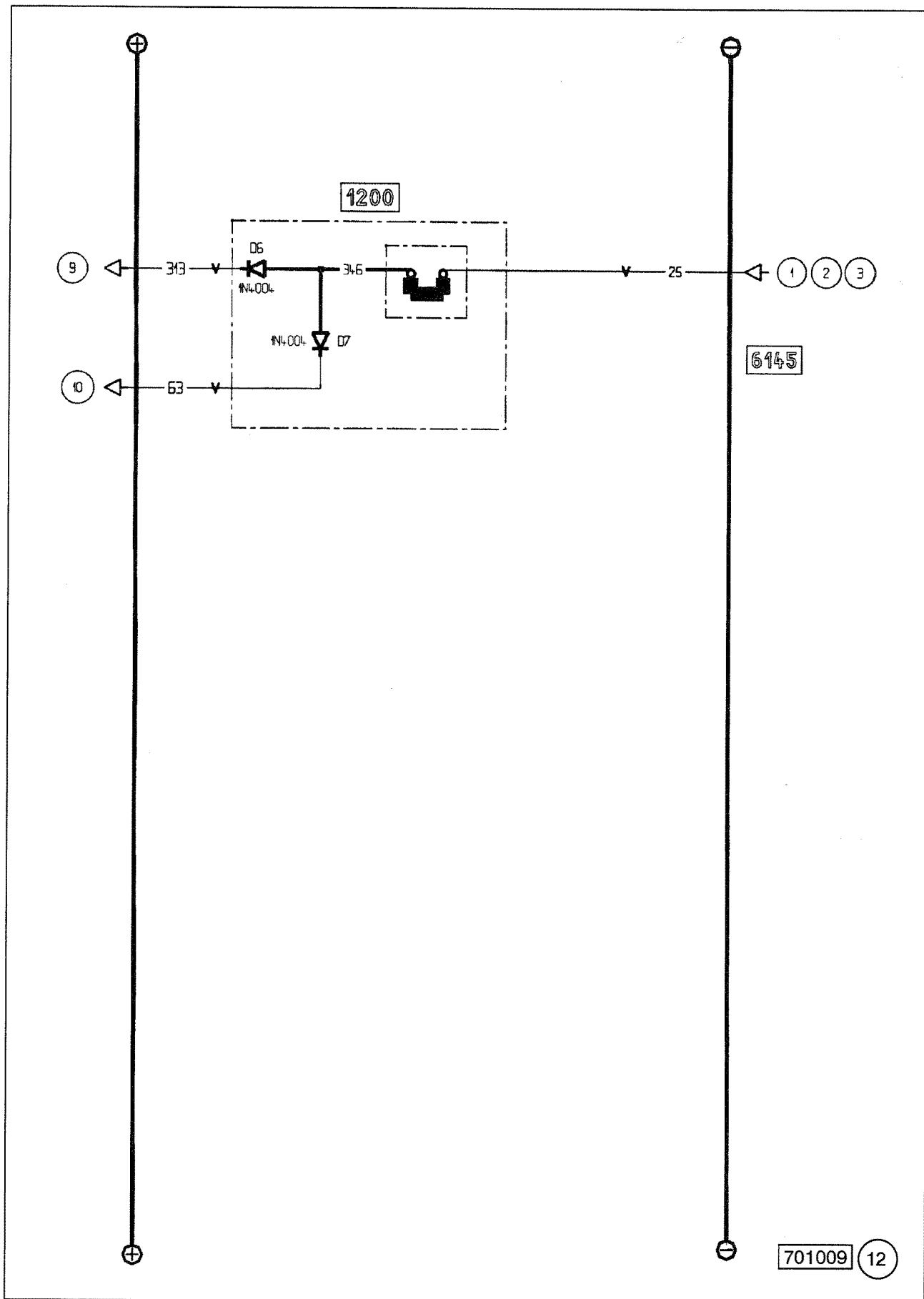
ROAD LIGHTING



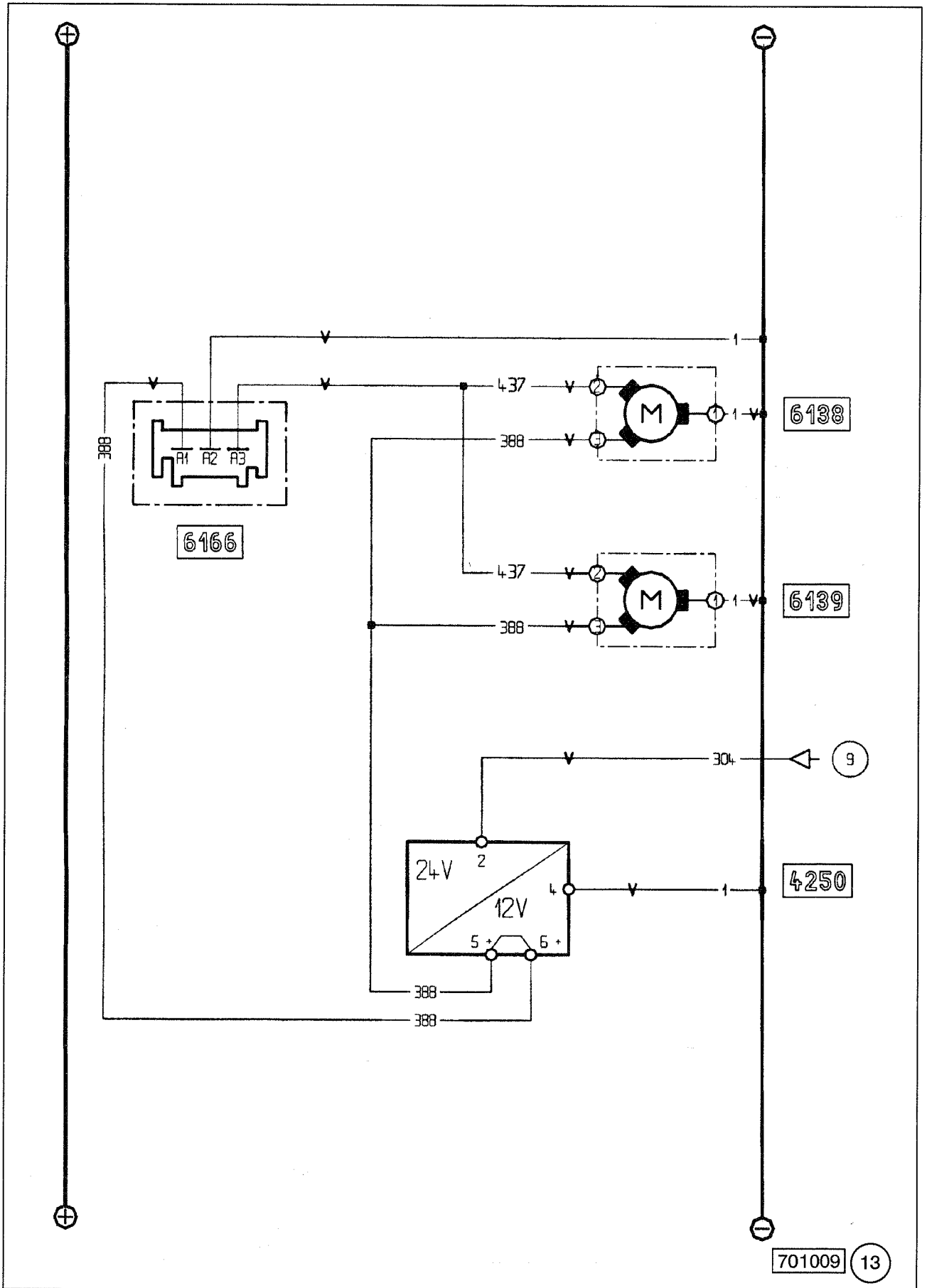
ROAD LIGHTING



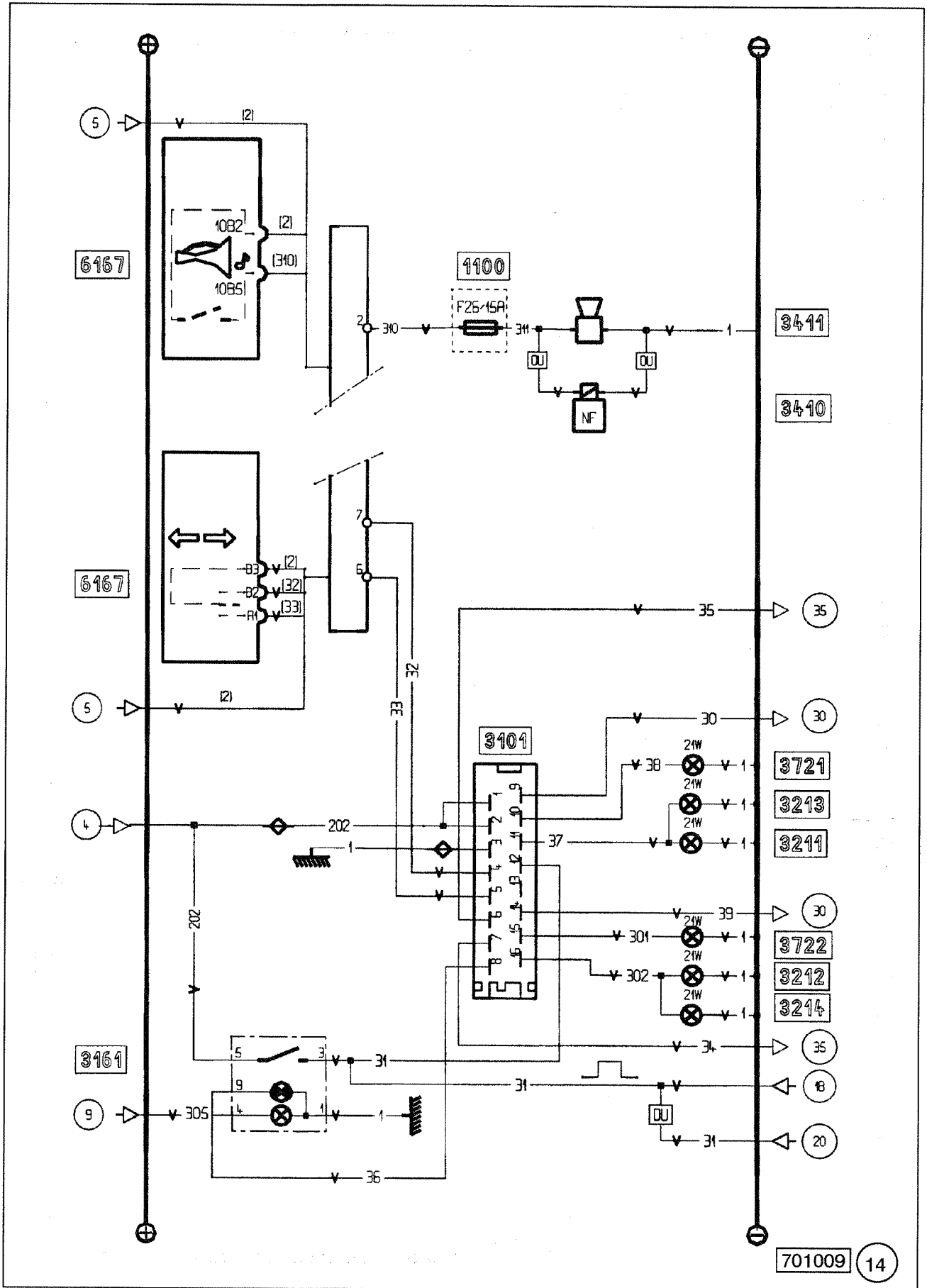
ROAD LIGHTING



DAYTIME LIGHTS DIMMER

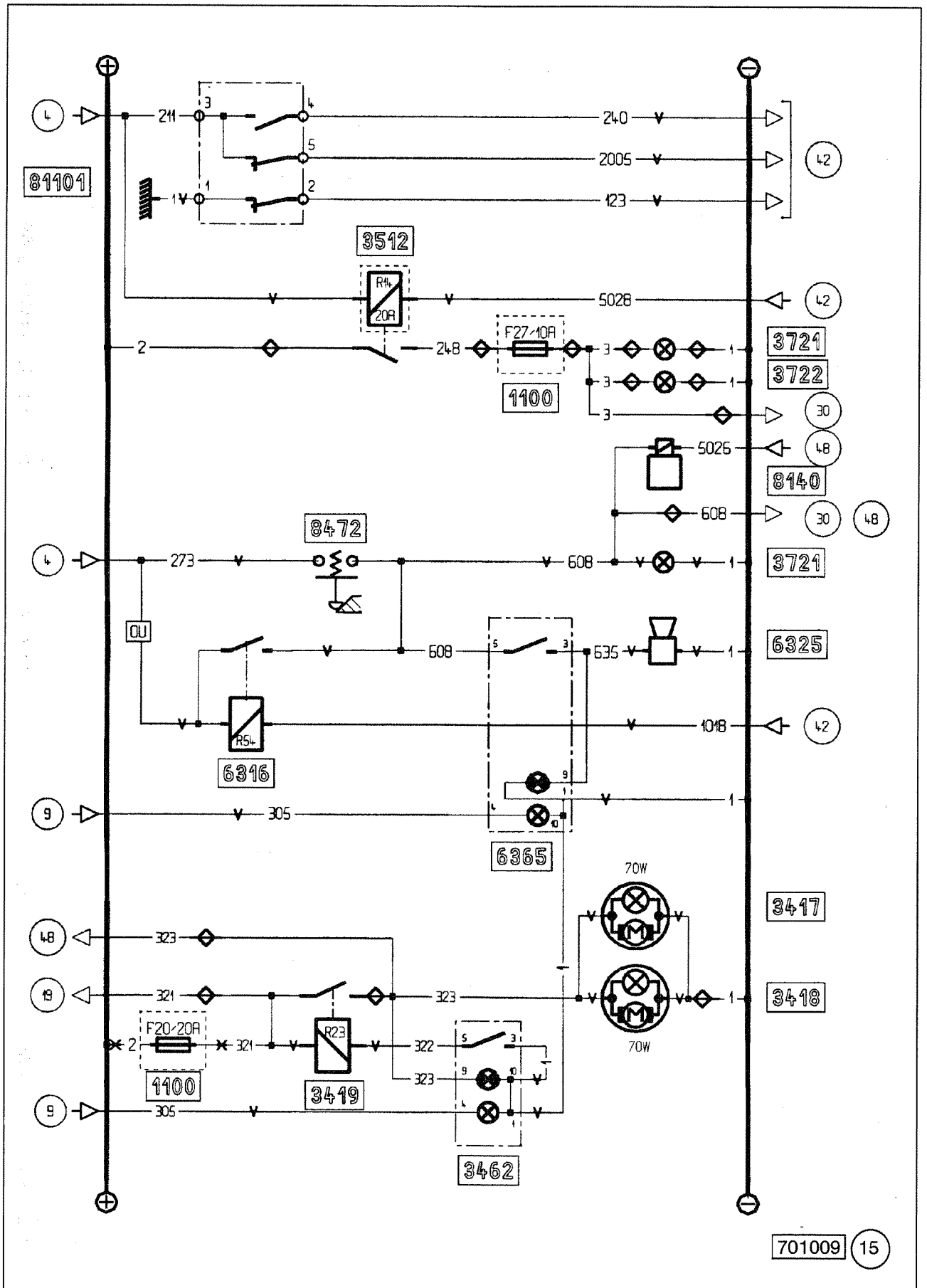


HEADLIGHT POSITION ADJUSTMENT

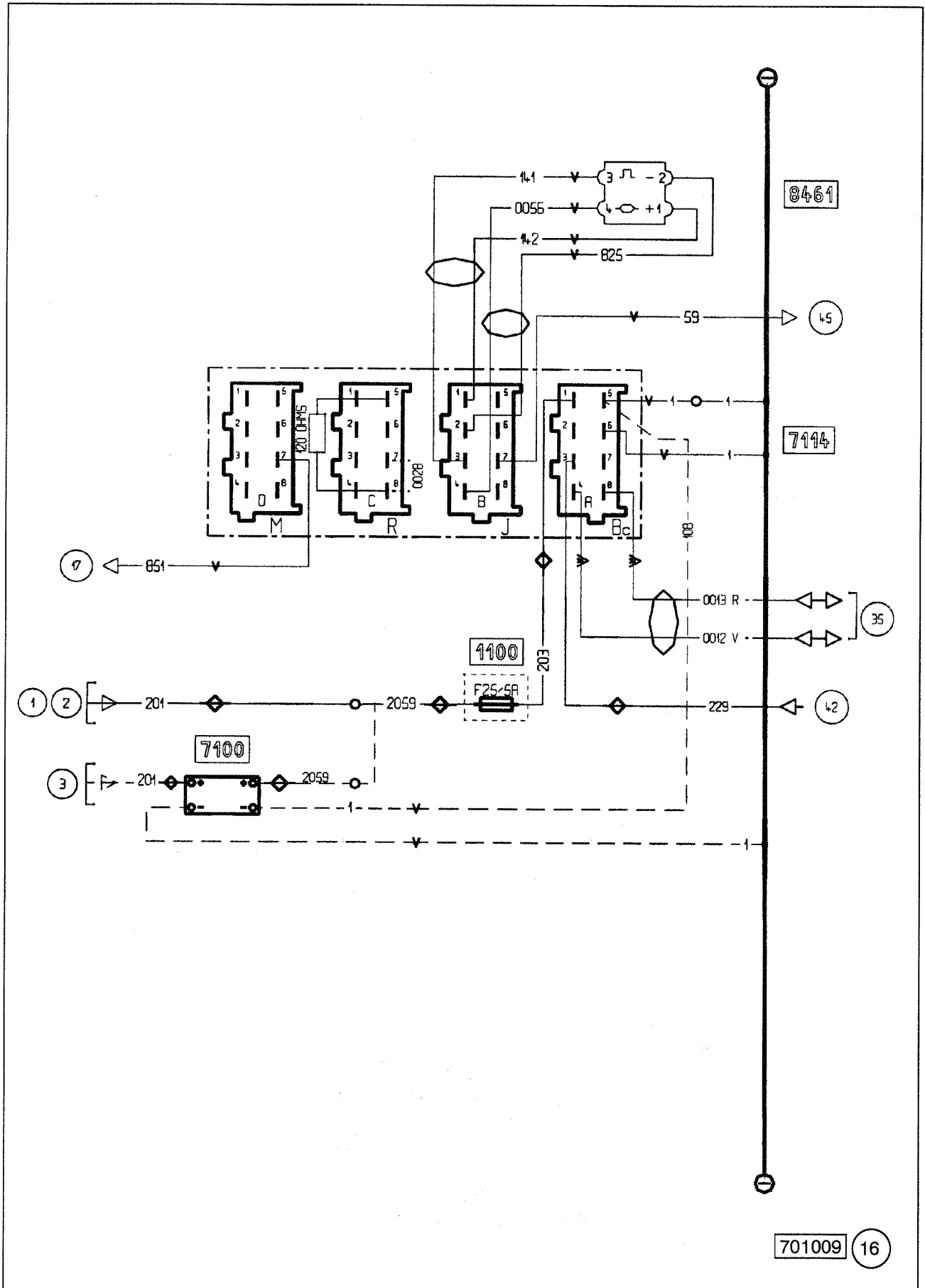


701009 (14)

SIGNALLING

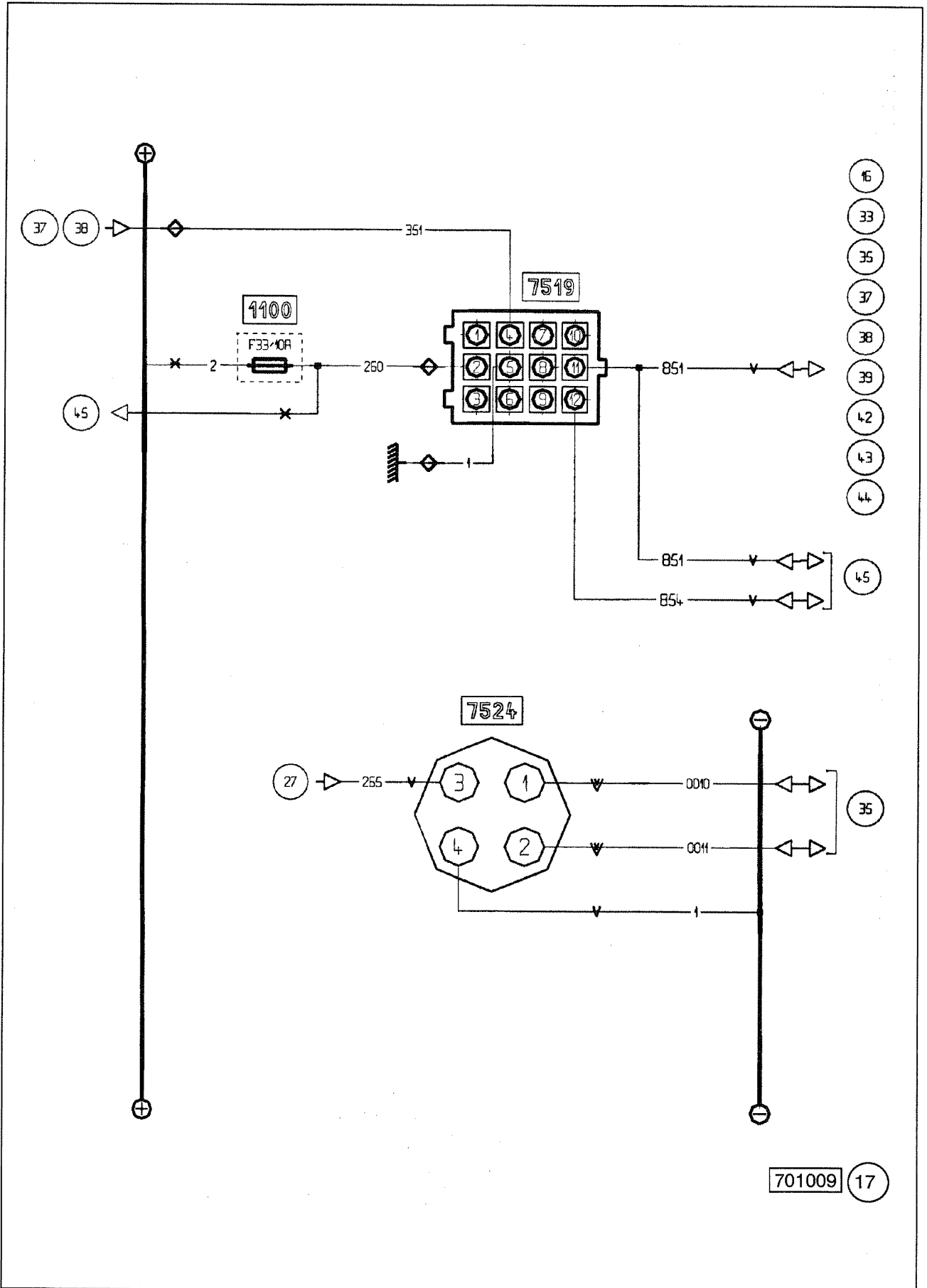


STOP LIGHTS / REVERSING LIGHTS / REVOLVING BEACONS

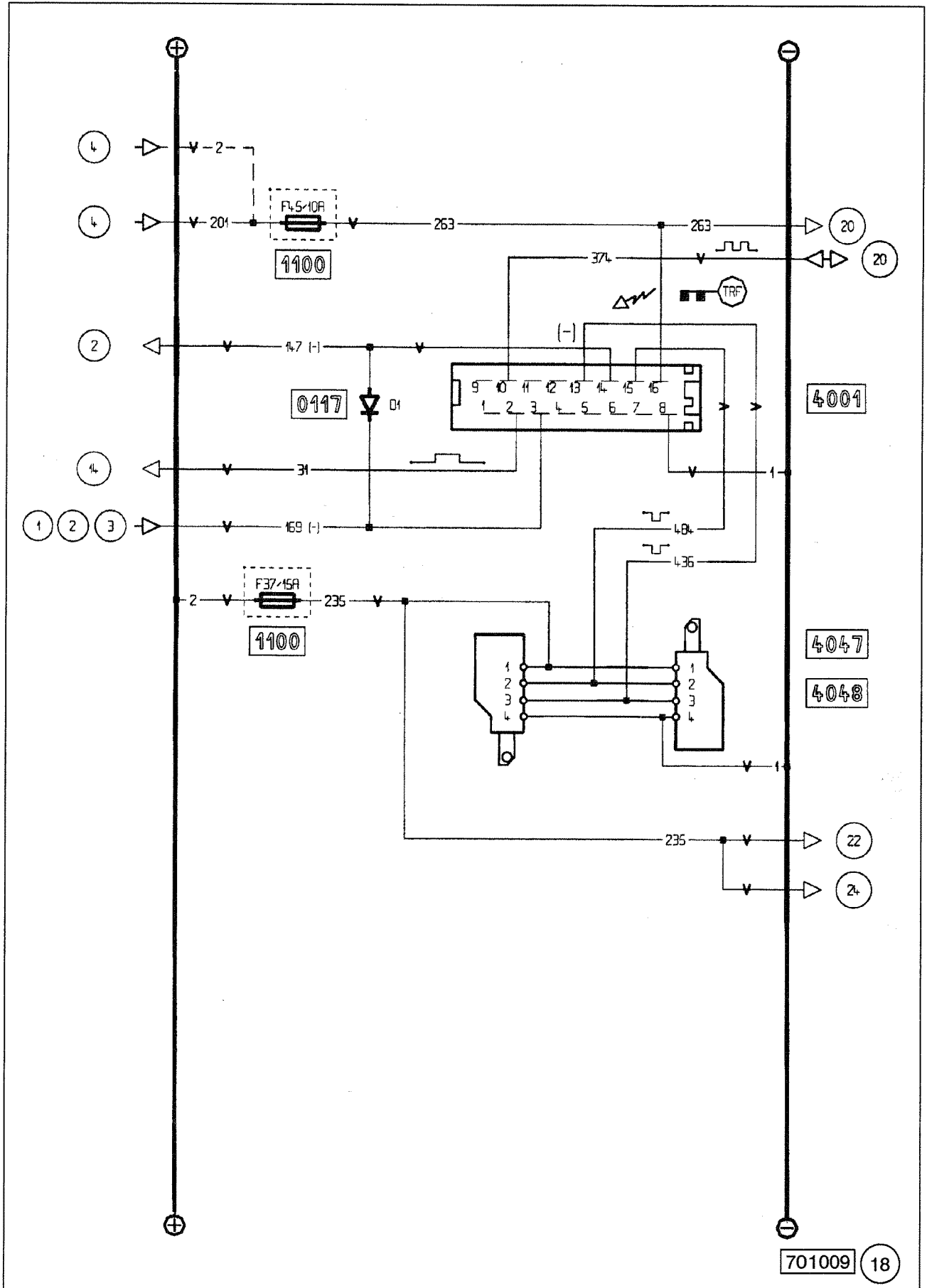


TACHOGRAPH



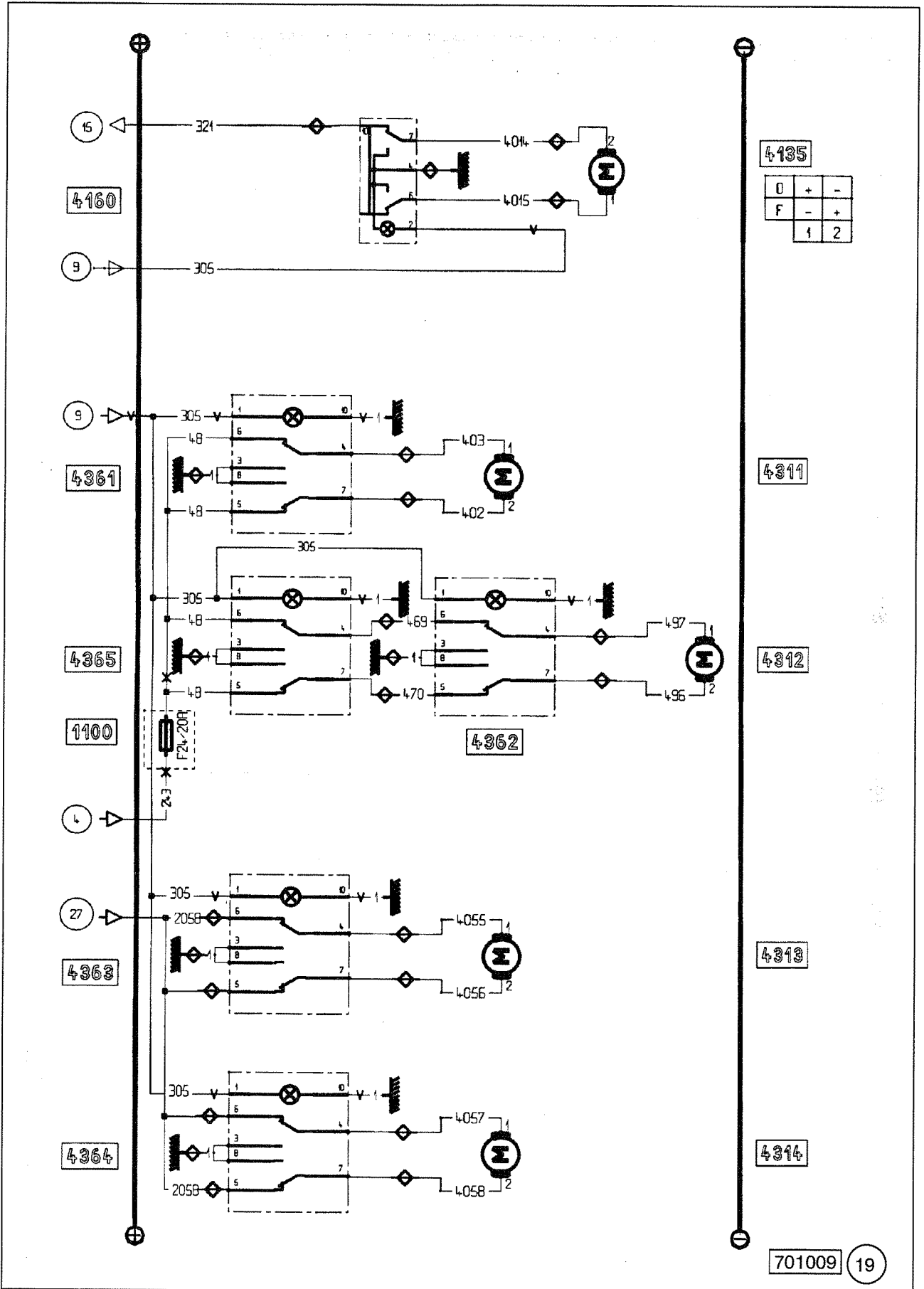


DIAGNOSTICS SOCKETS



701009 18

DOORS LOCKING



4135

0	+	-
F	-	+
1		2

4160

4361

4365

1100

4363

4364

4311

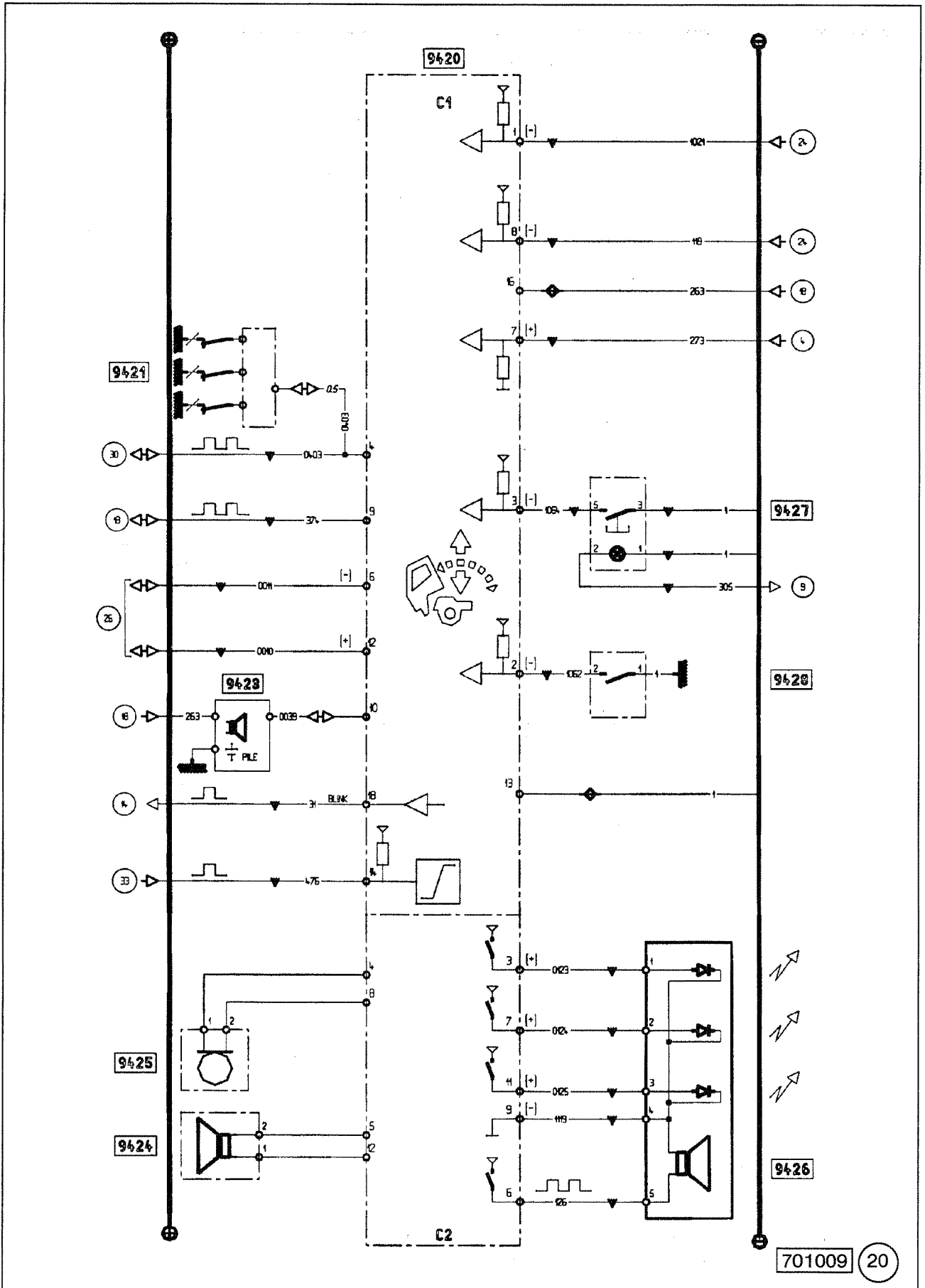
4312

4313

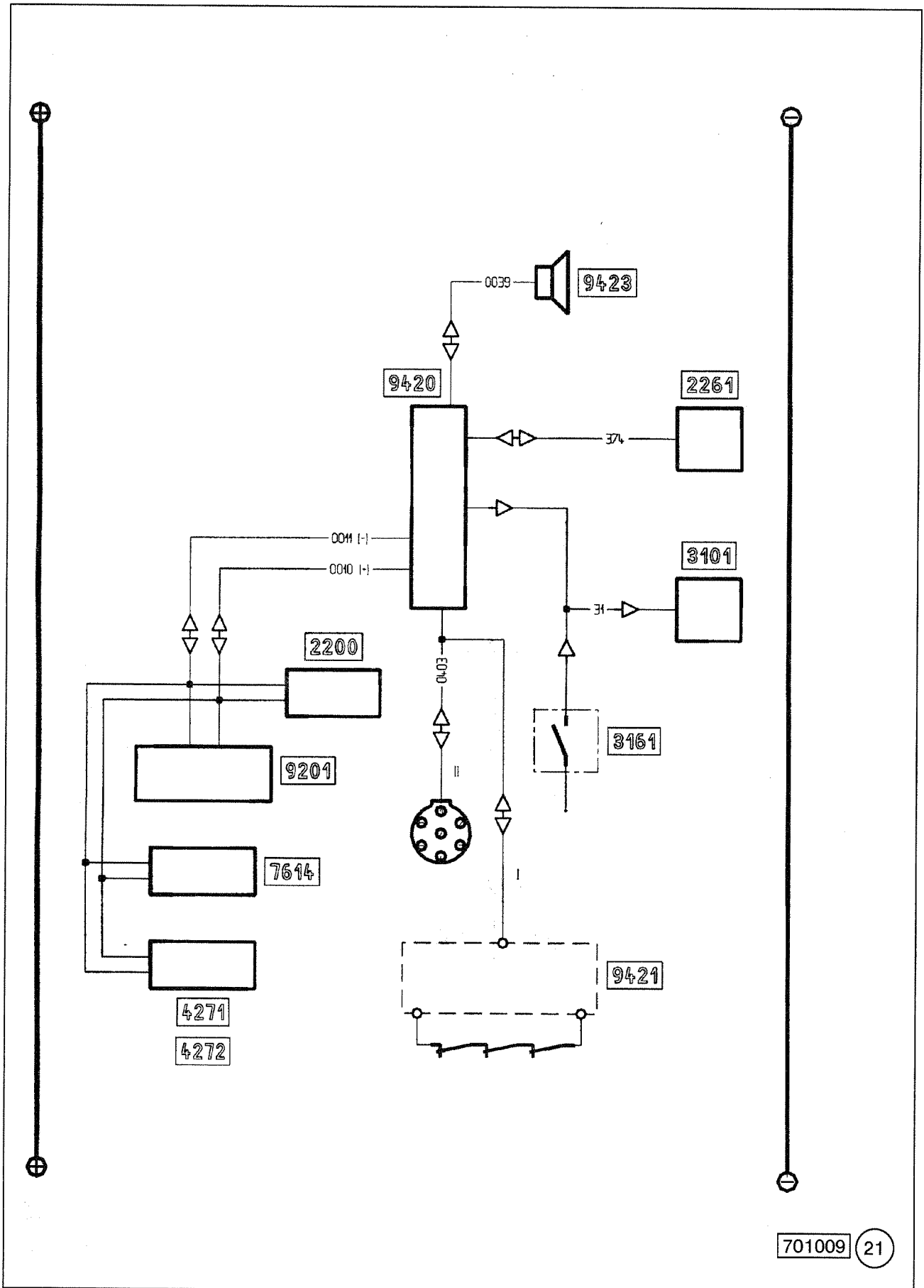
4314

701009 (19)

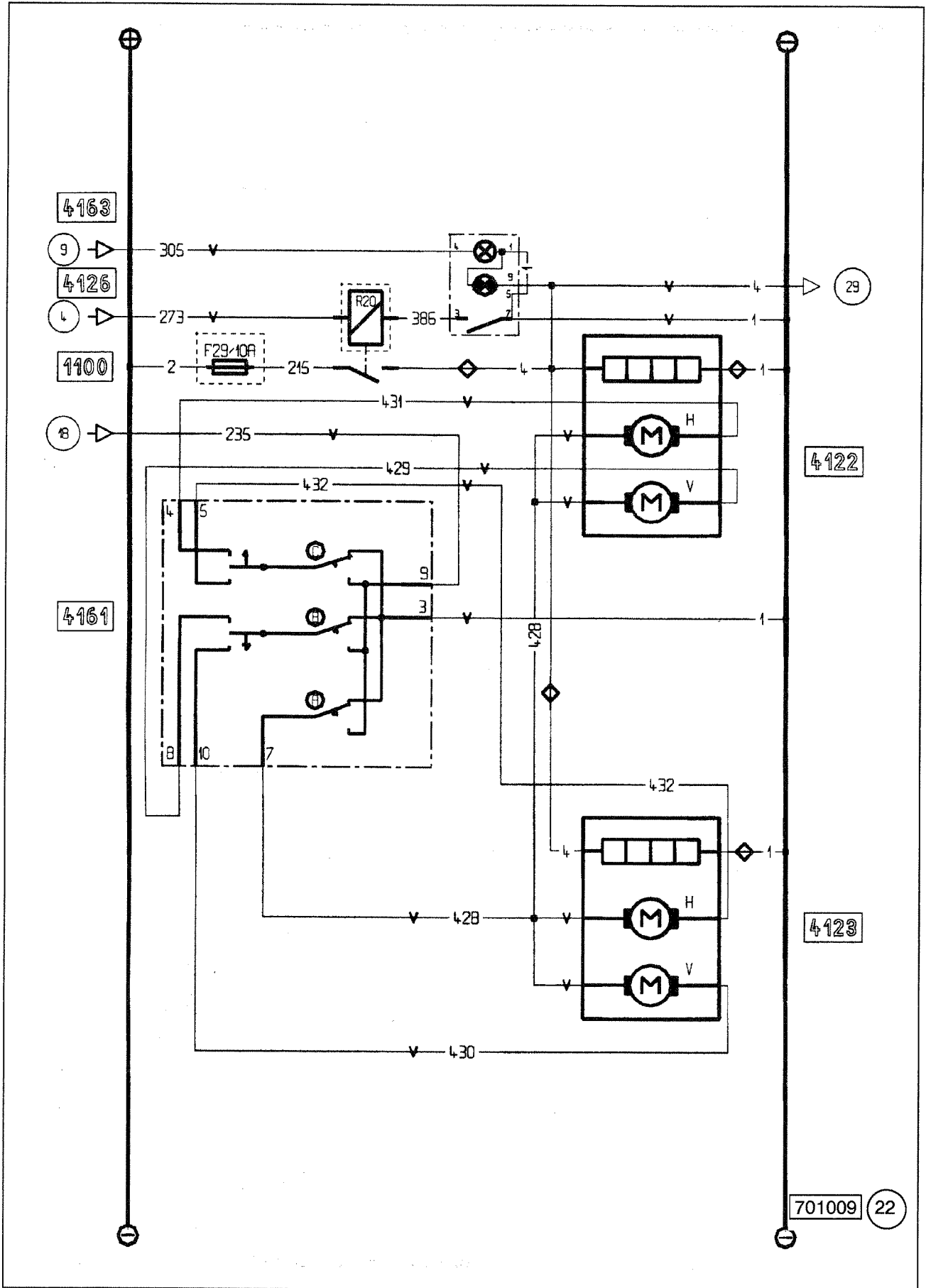
WINDOW WINDERS / REARVIEW MIRRORS



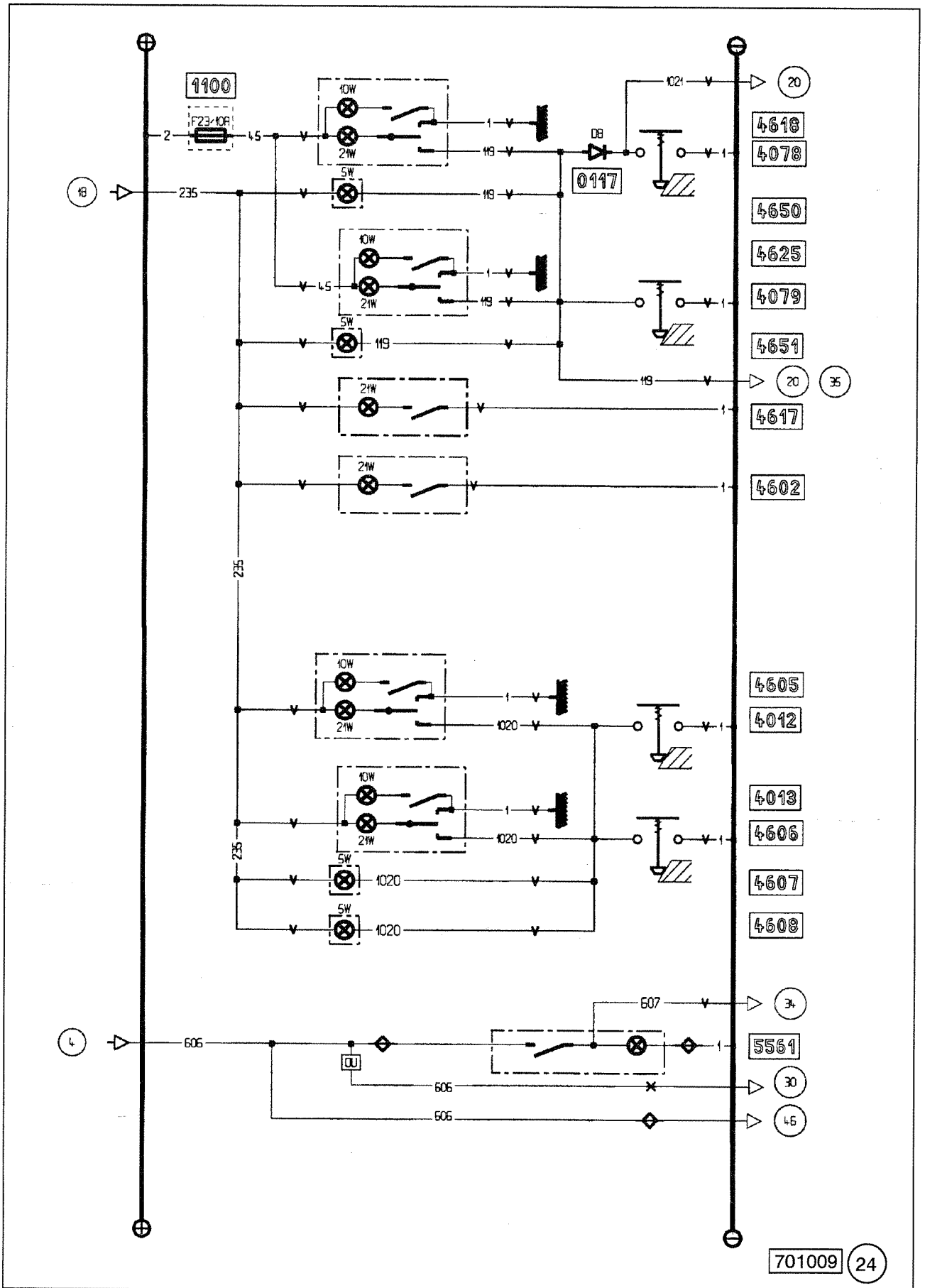
VEHICLE PROTECTION



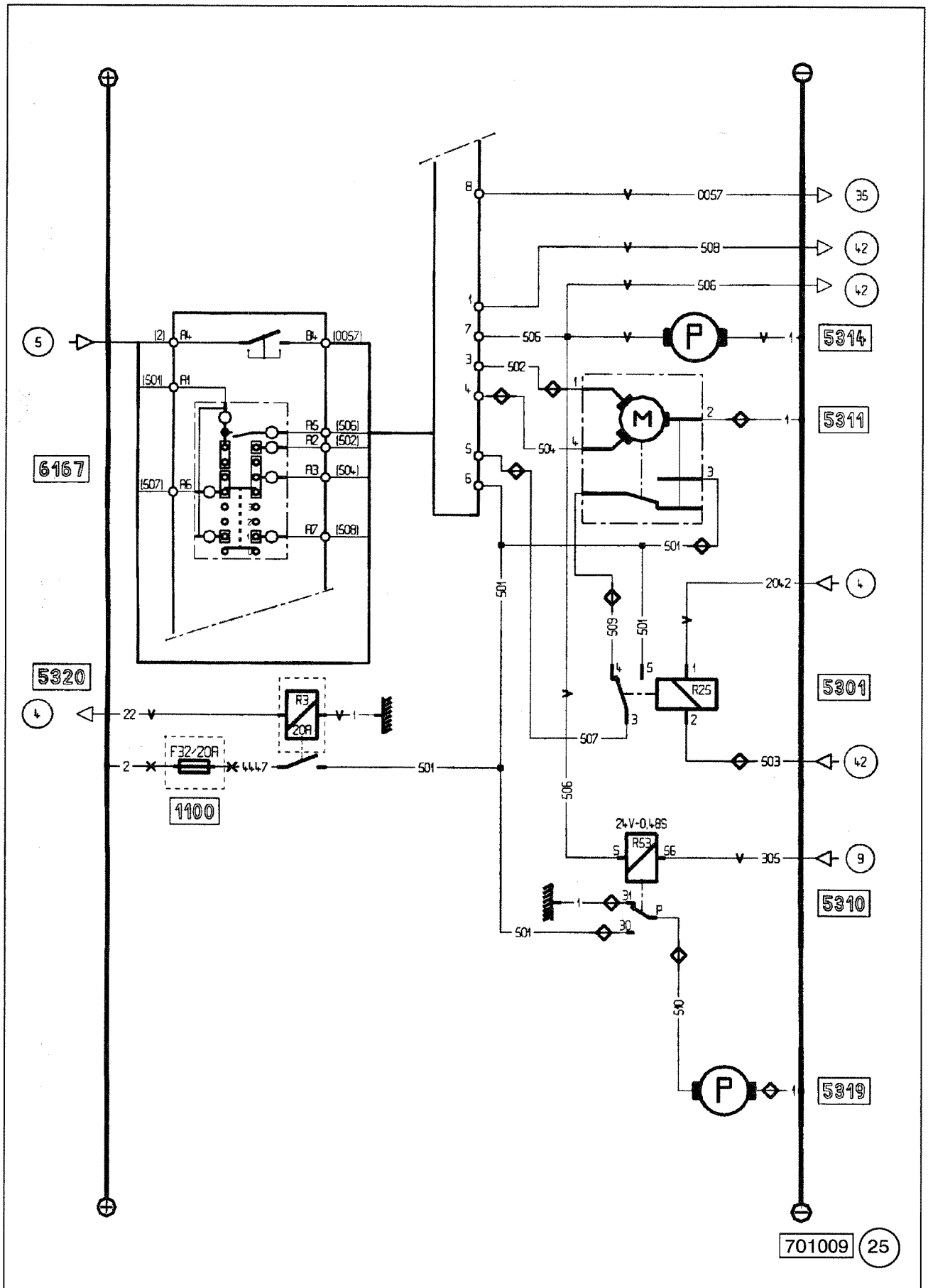
VEHICLE PROTECTION



ELECTRIC DEFROSTING REARVIEW MIRROR

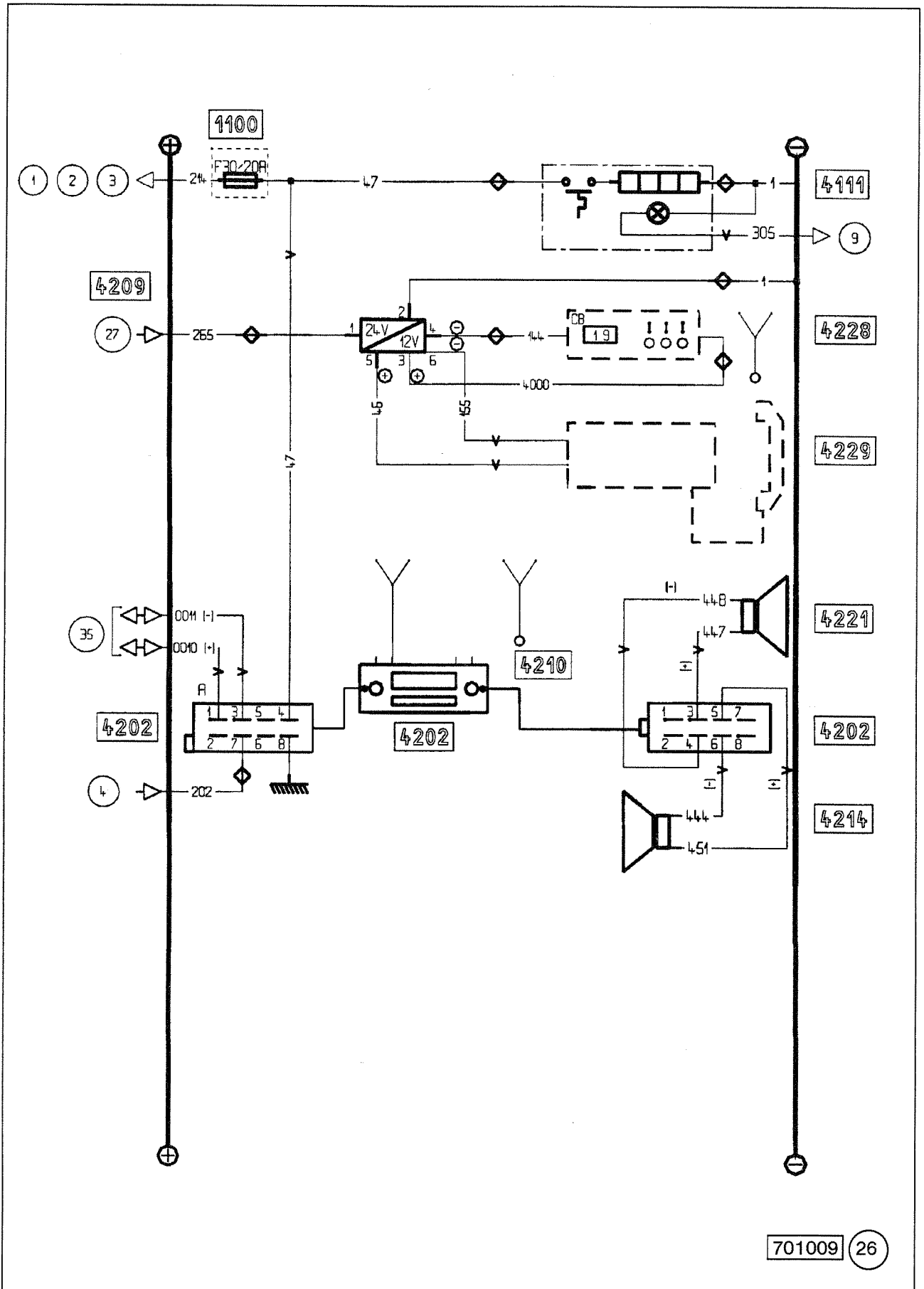


CAB INTERIOR LIGHTING / LOADING FLOODLIGHT

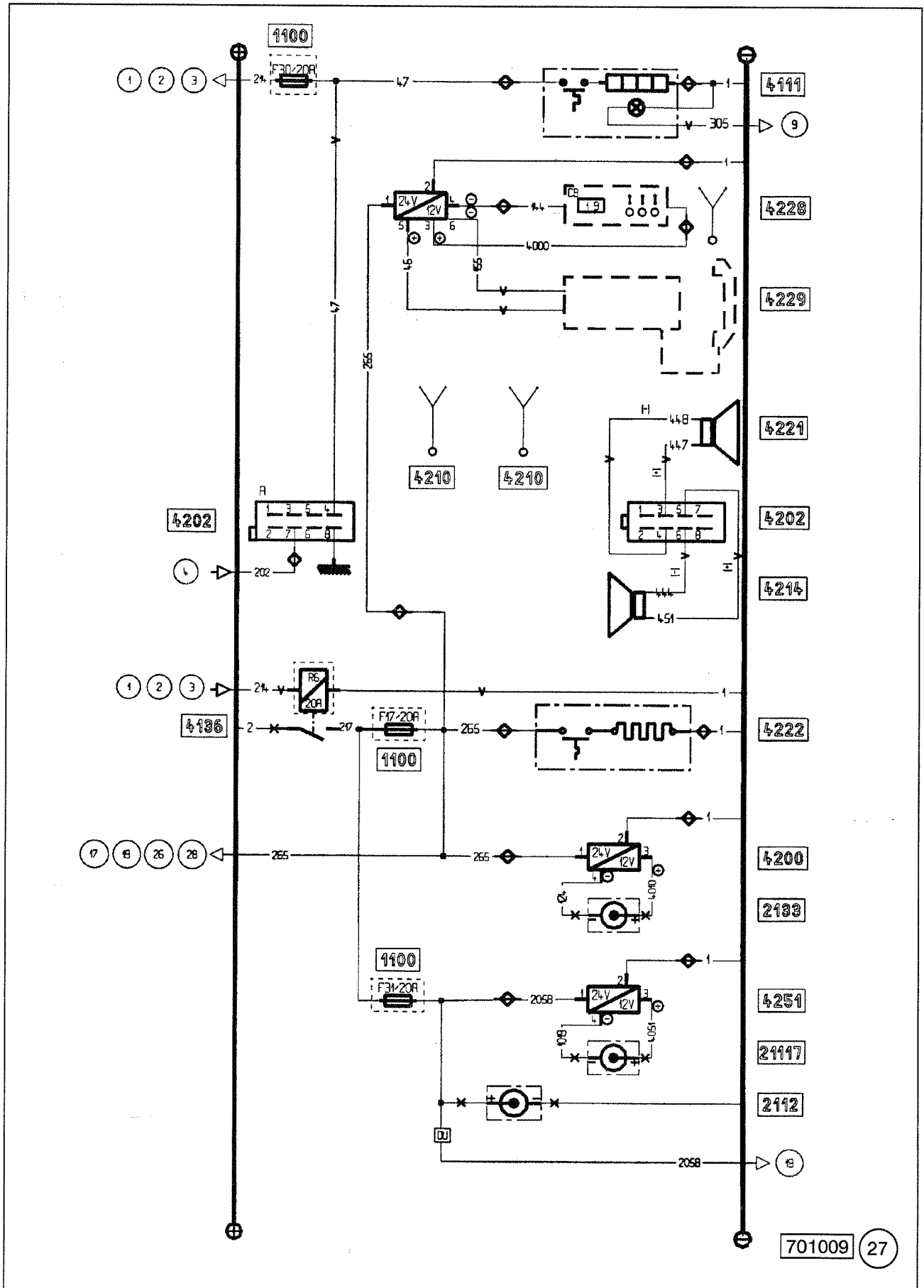


WINDSCREEN WIPER / SCREEN WASH / HEADLAMP WASH

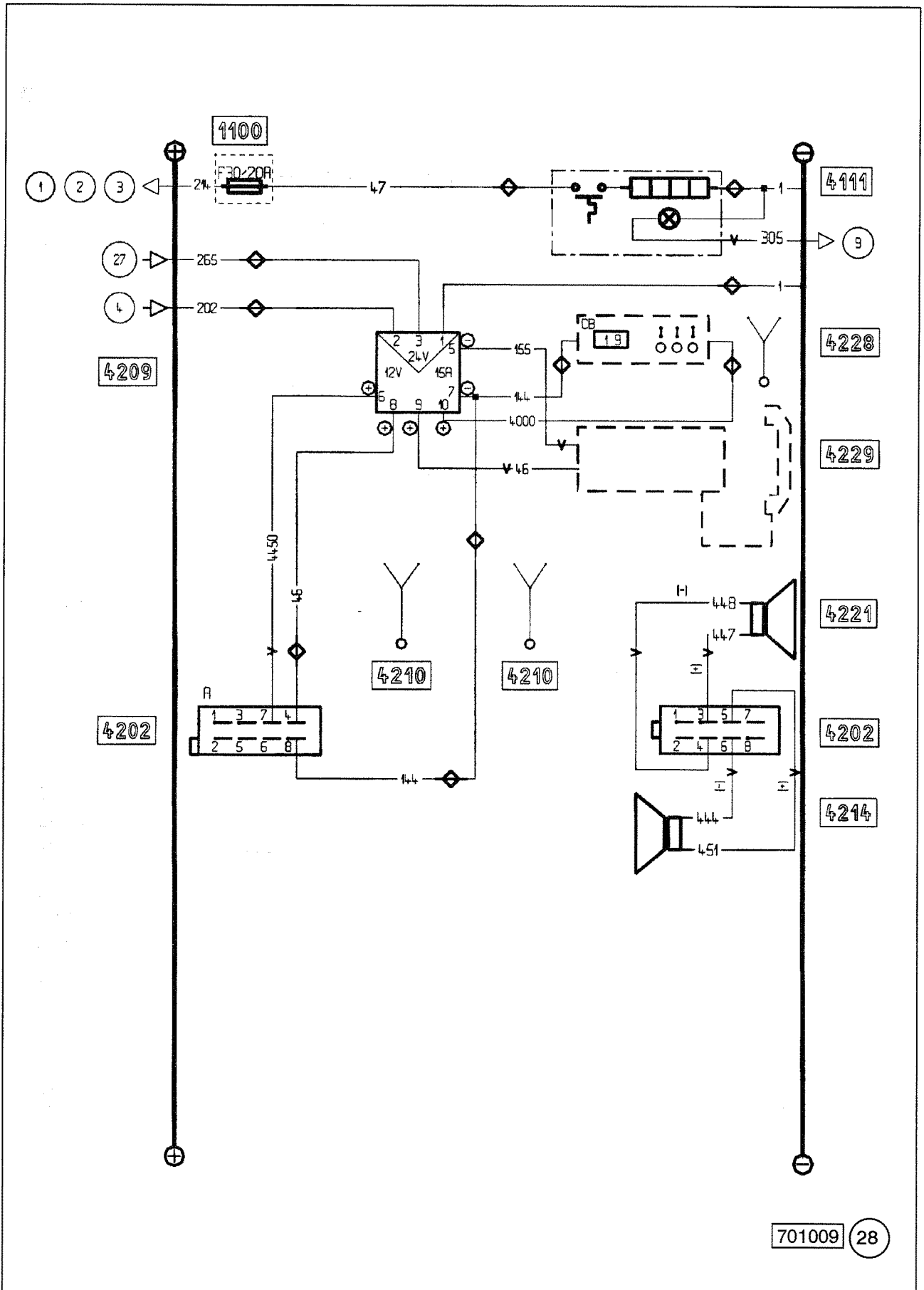




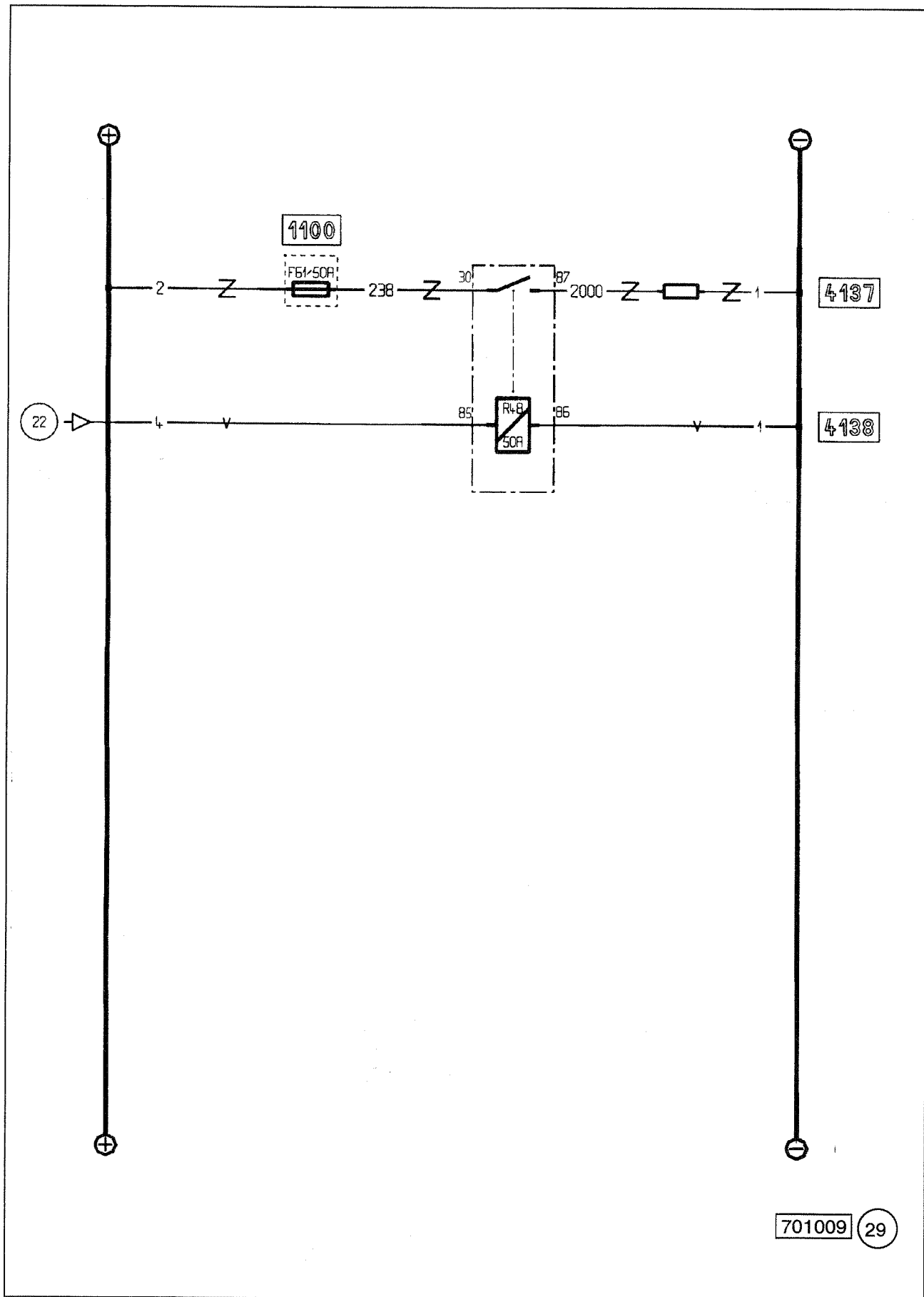
HEATED SEAT / CIGAR LIGHTER / 12V SOCKET/RADIO SET / TELEPHONE / CB



HEATED SEAT / CIGAR LIGHTER / 12V SOCKET/RADIO SET / TELEPHONE / CB

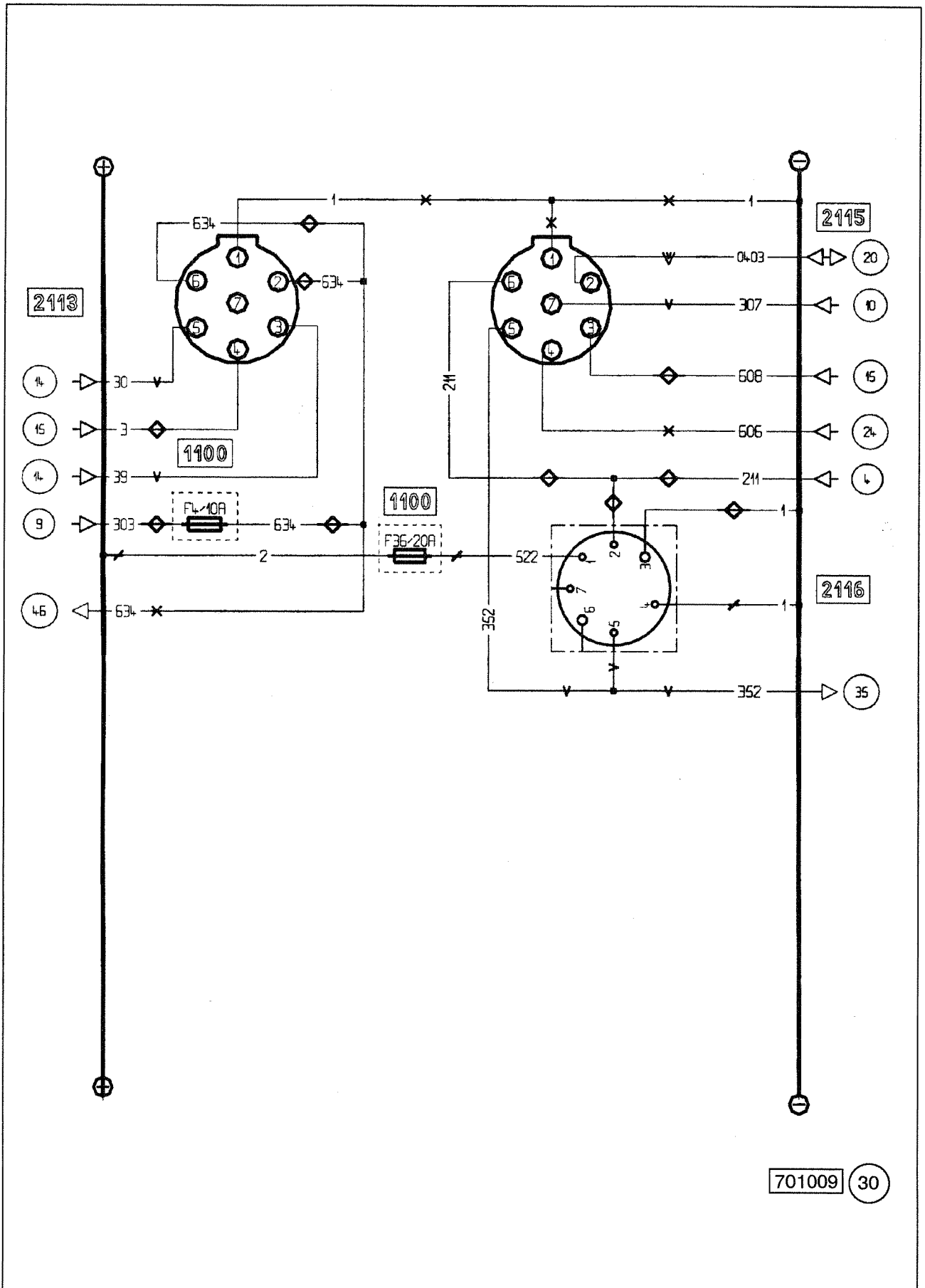


HEATED SEAT / CIGAR LIGHTER / 12V SOCKET/RADIO SET / TELEPHONE / CB

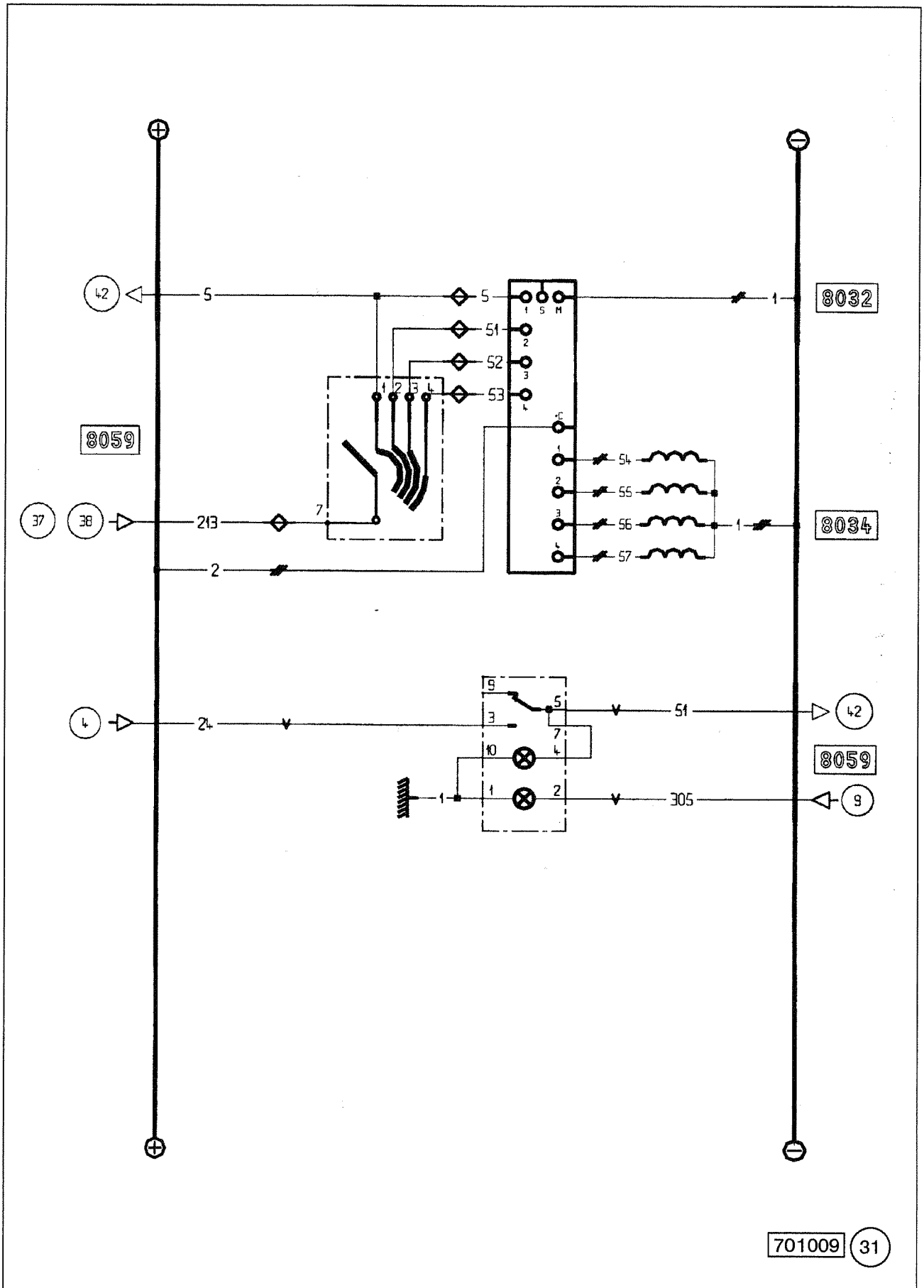


701009 (29)

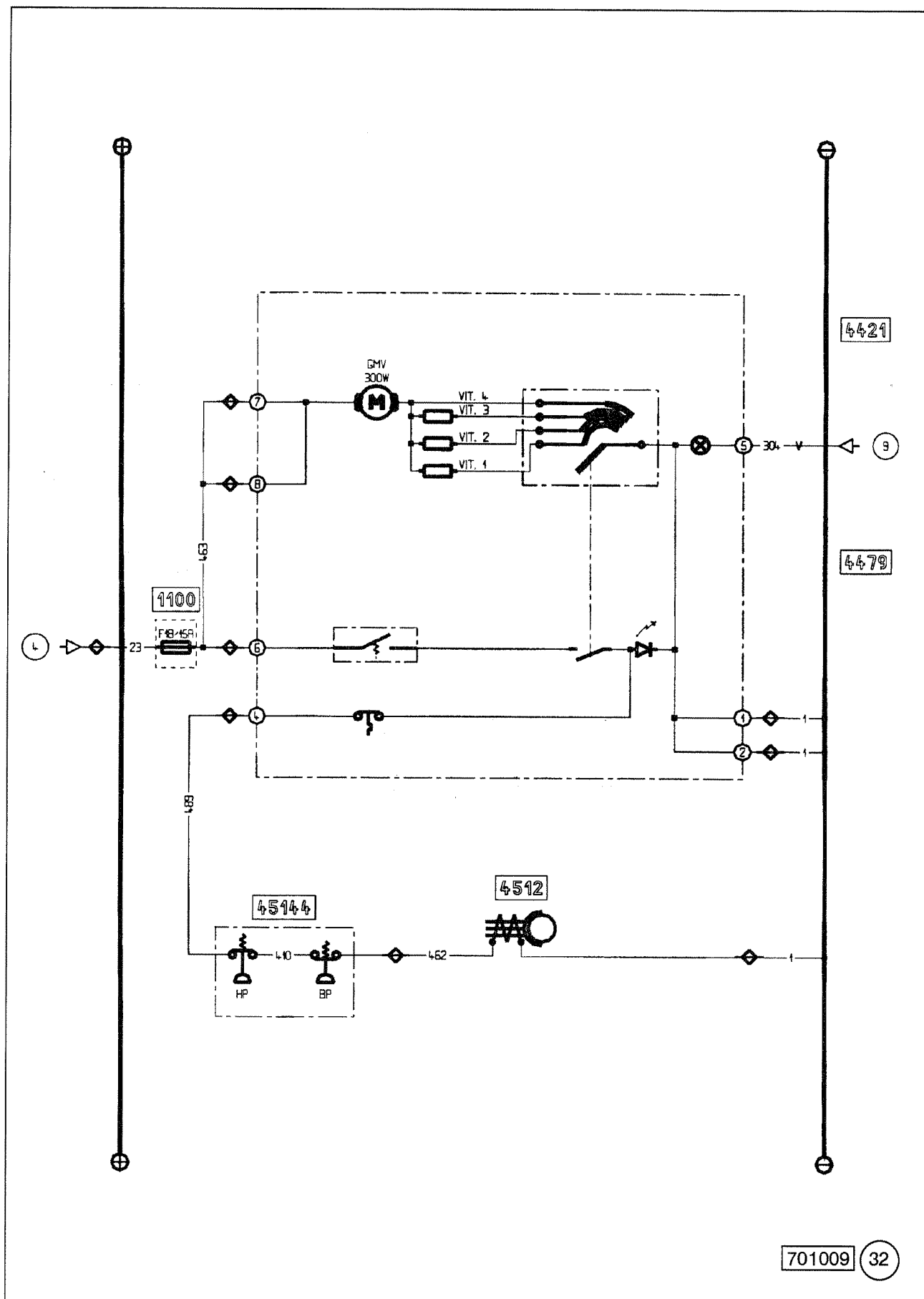
WINDSCREEN DEFROSTING



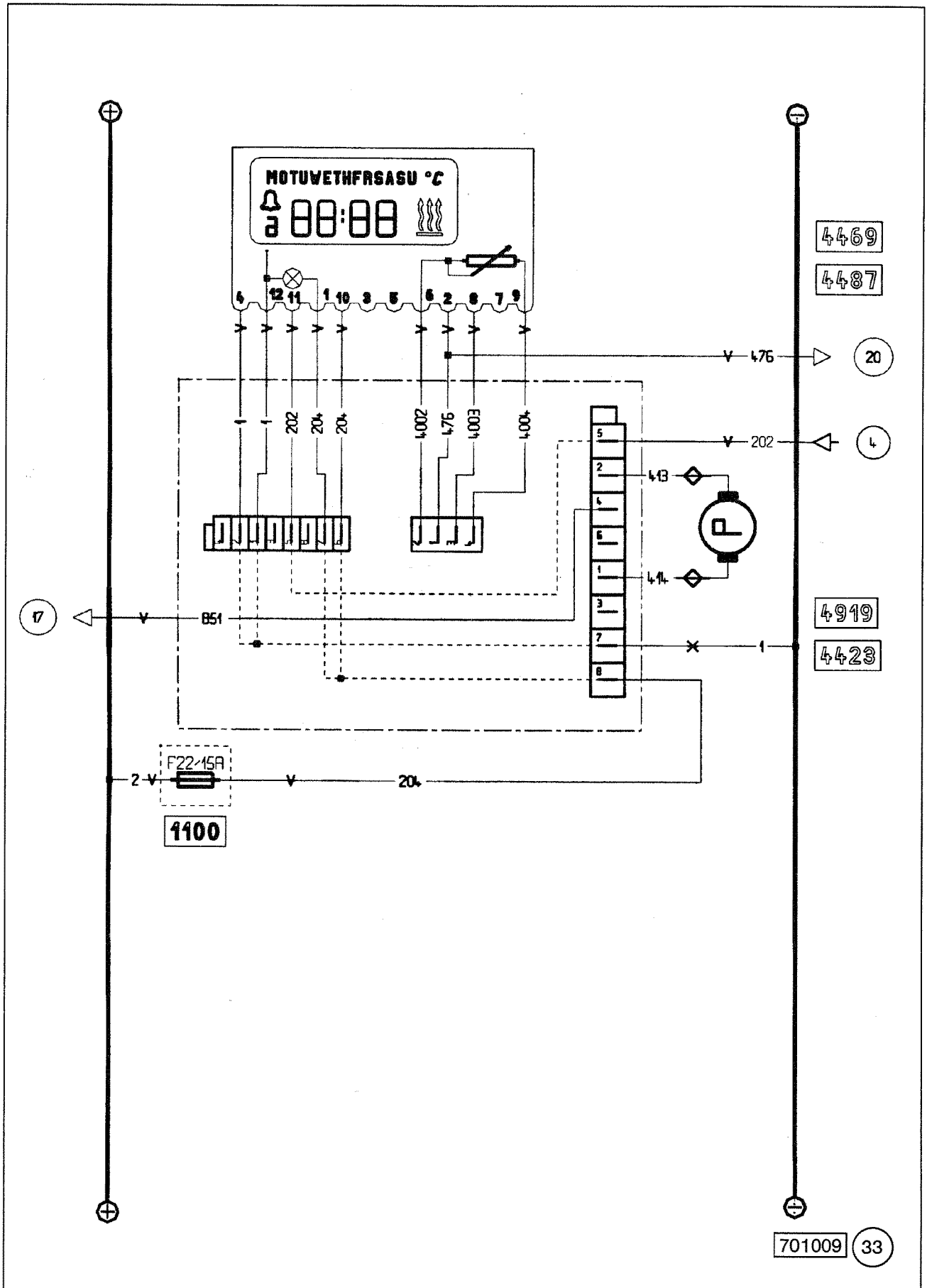
TRAILER SOCKETS



RETARDER

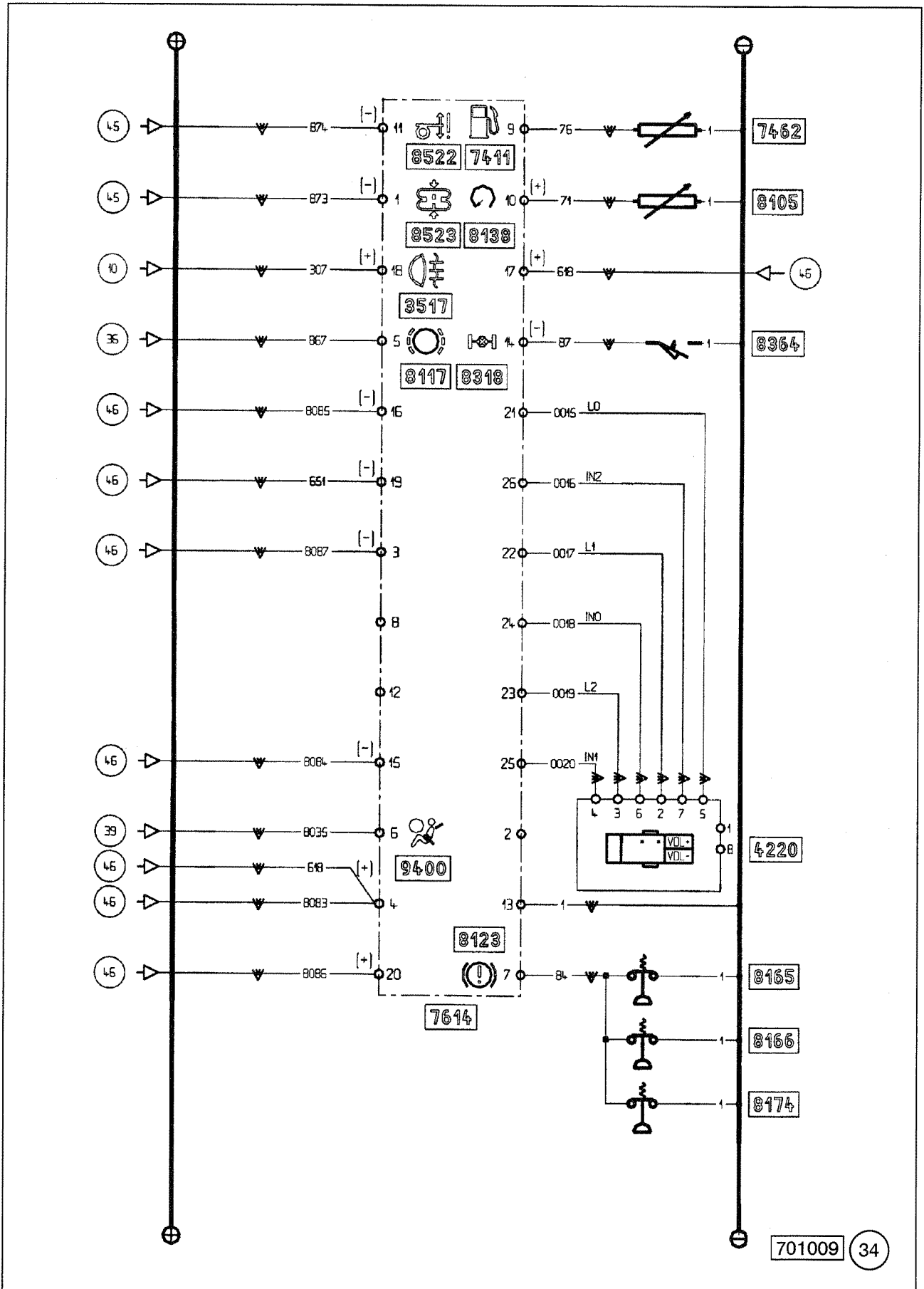


AIR CONDITIONING

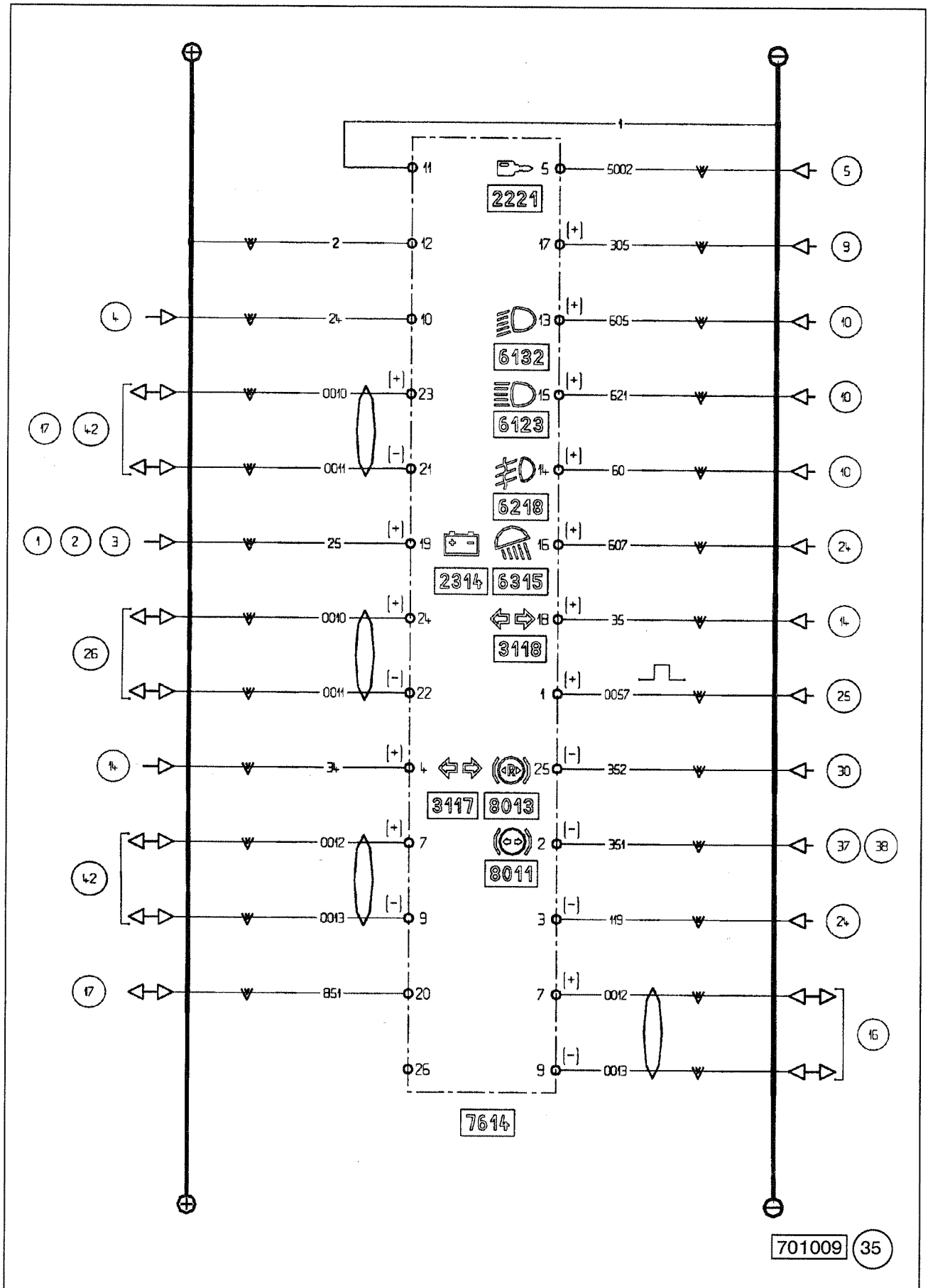


INDEPENDENT HEATING

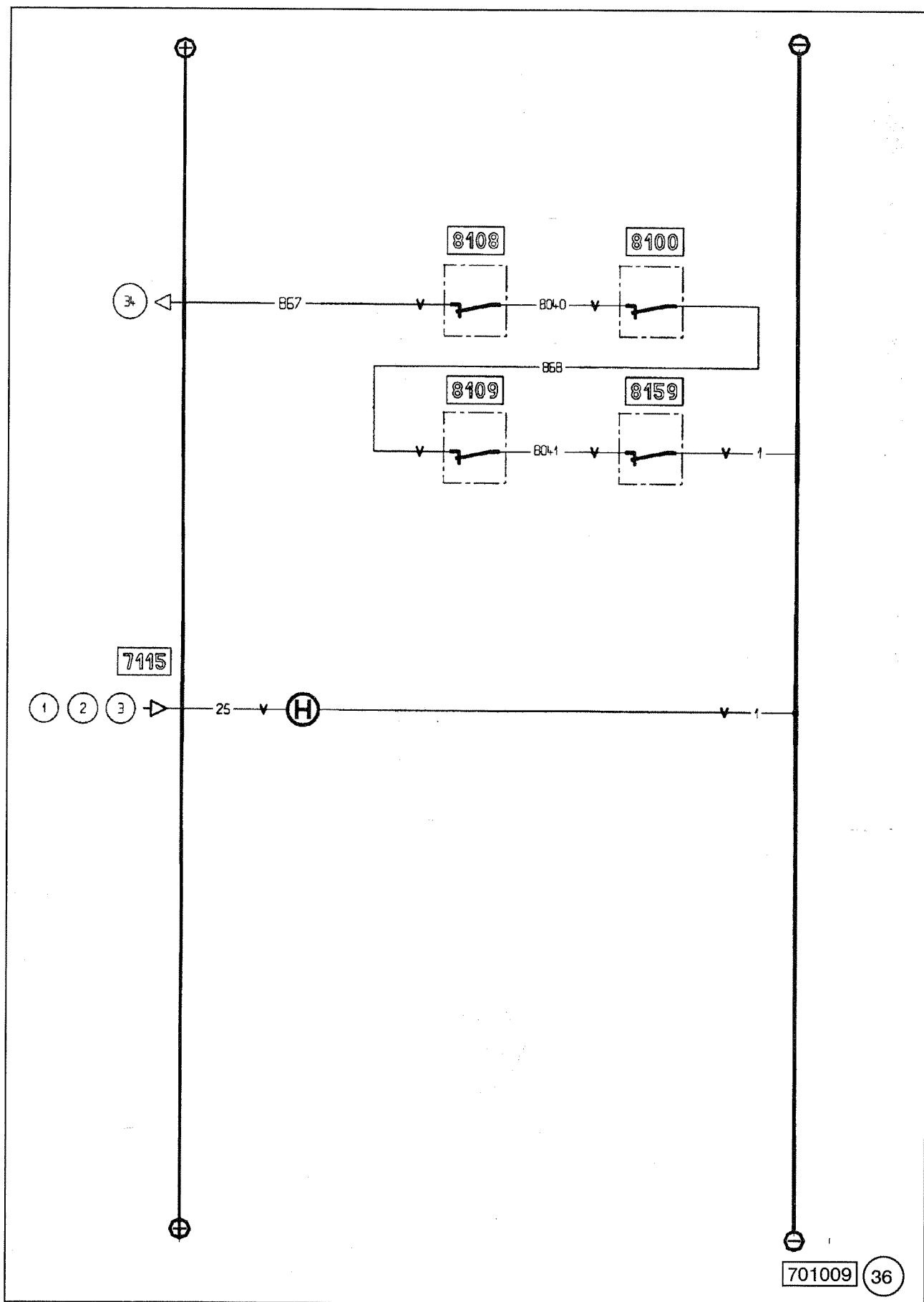




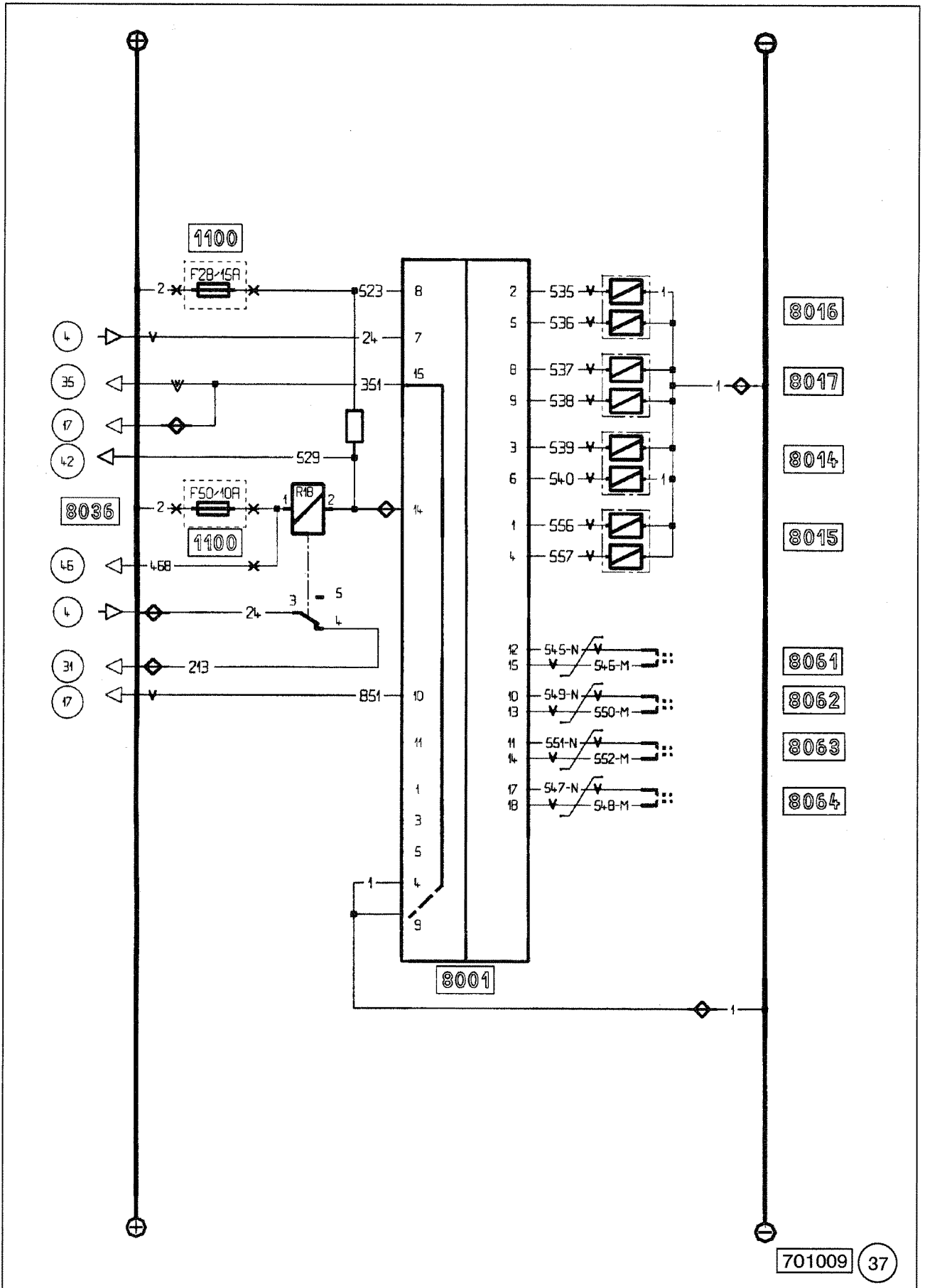
PRINCIPAL DISPLAY



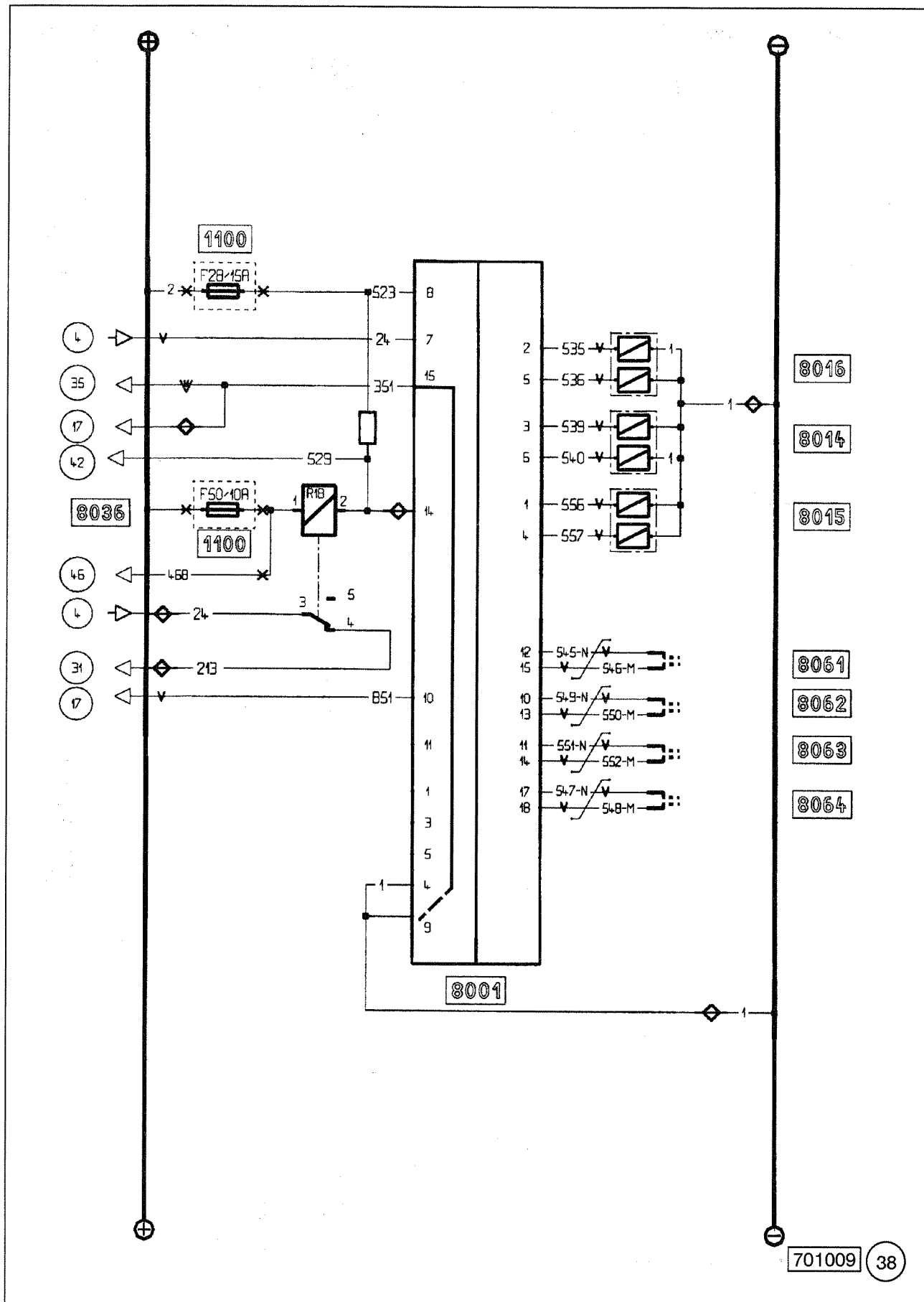
PRINCIPAL DISPLAY



BRAKE PAD WEAR

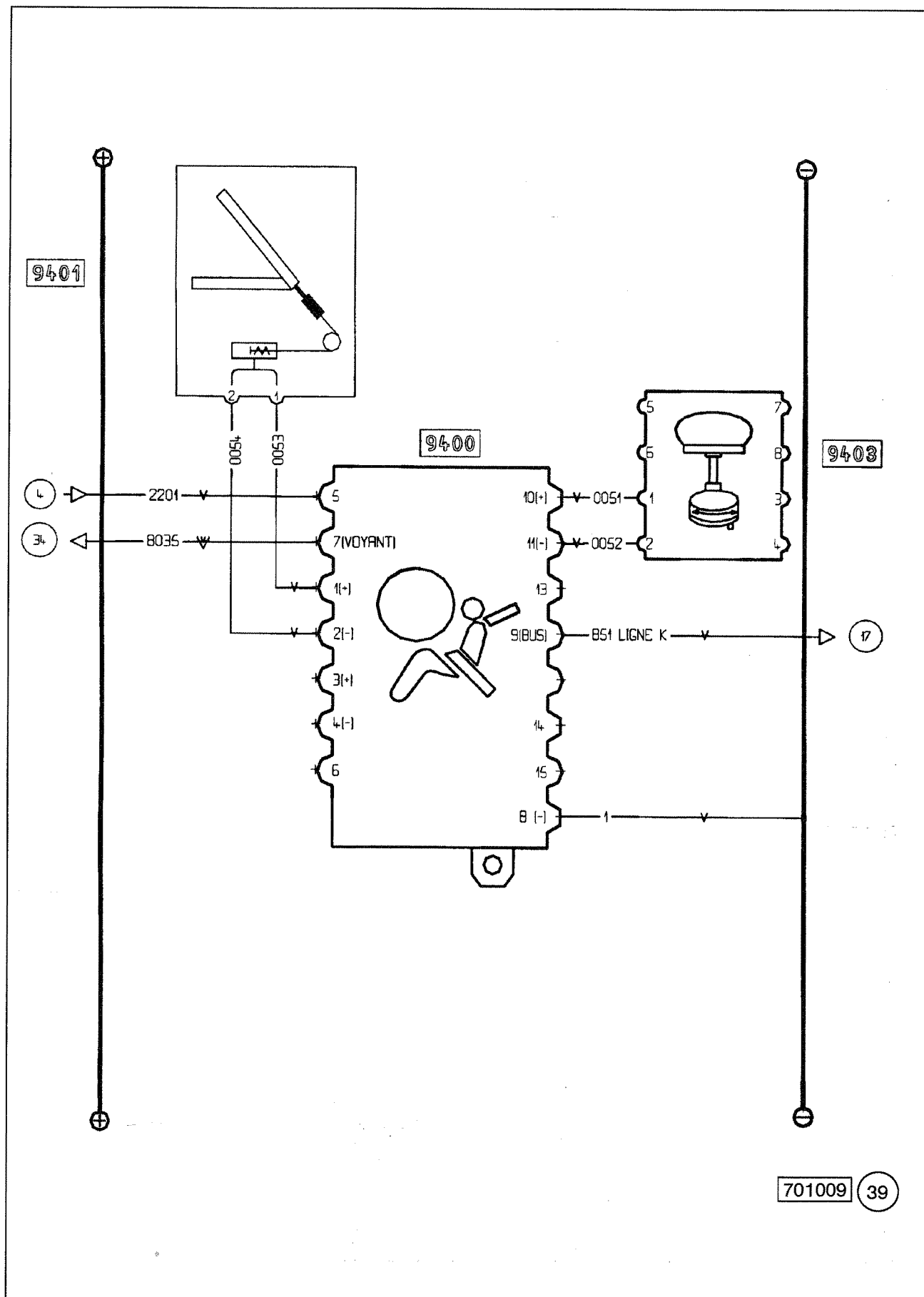


ABS / ASR EQUIPMENT

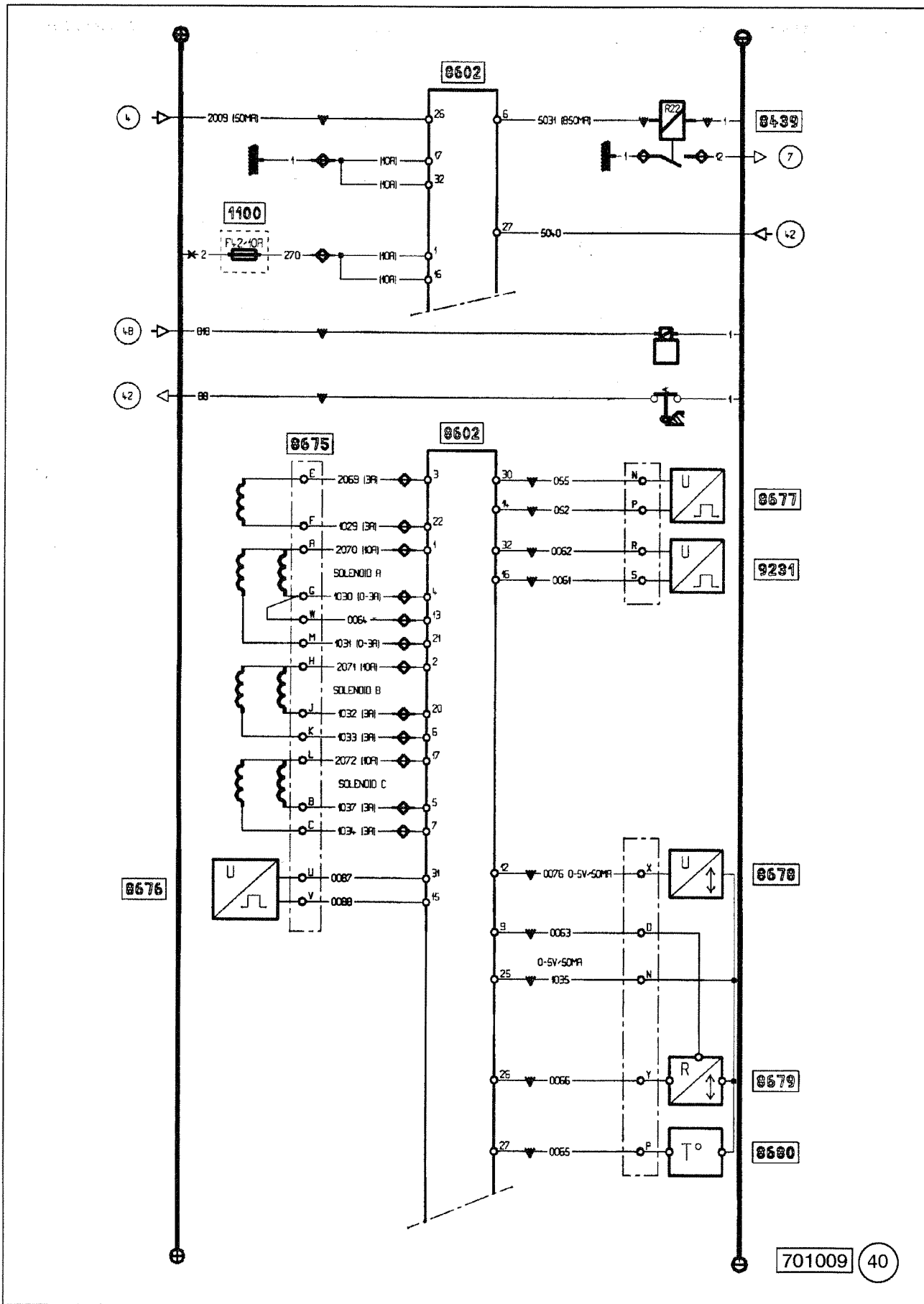


ABS / ASR EQUIPMENT

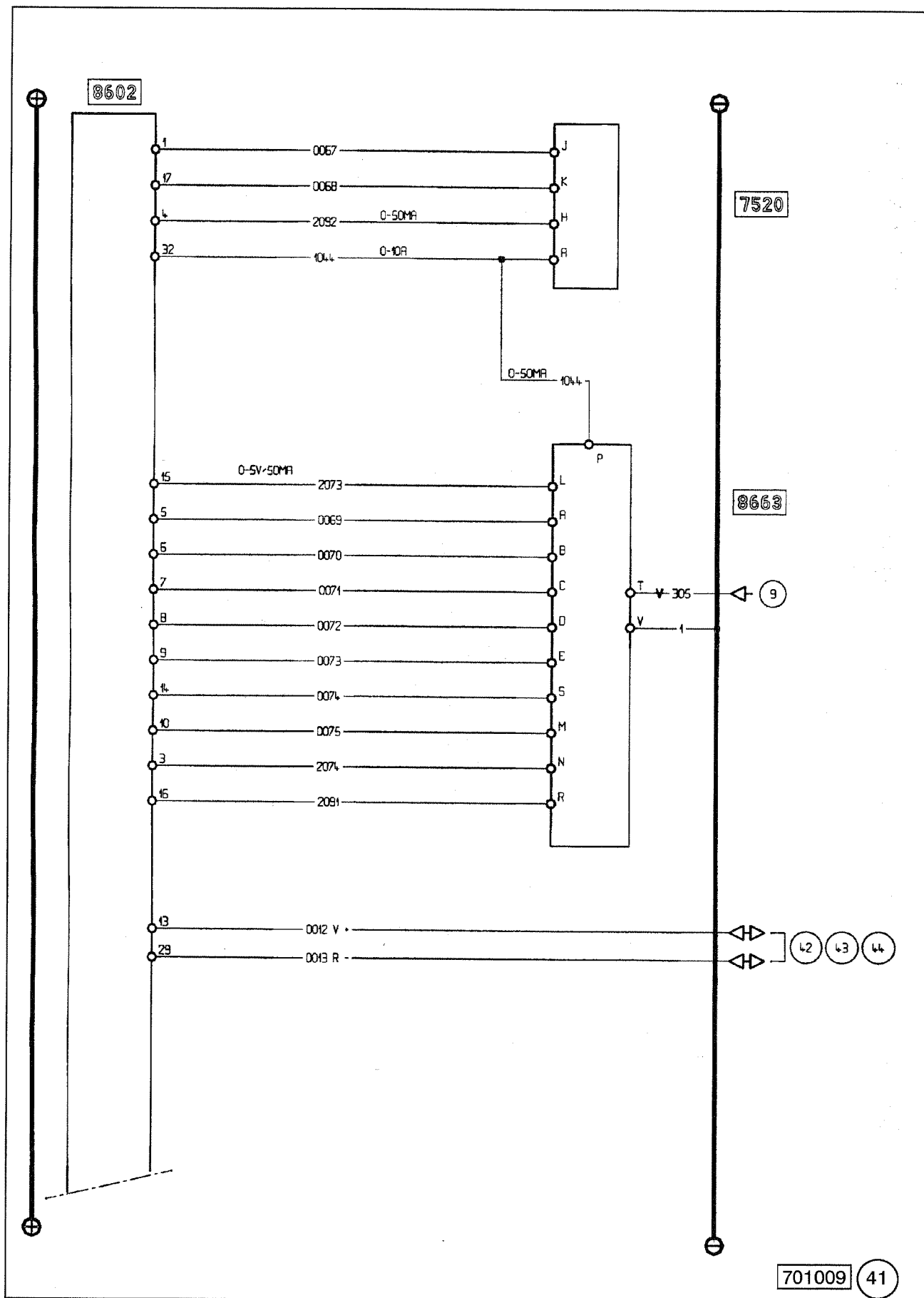
RENAULT VI. 07 / 01



AIRBAG

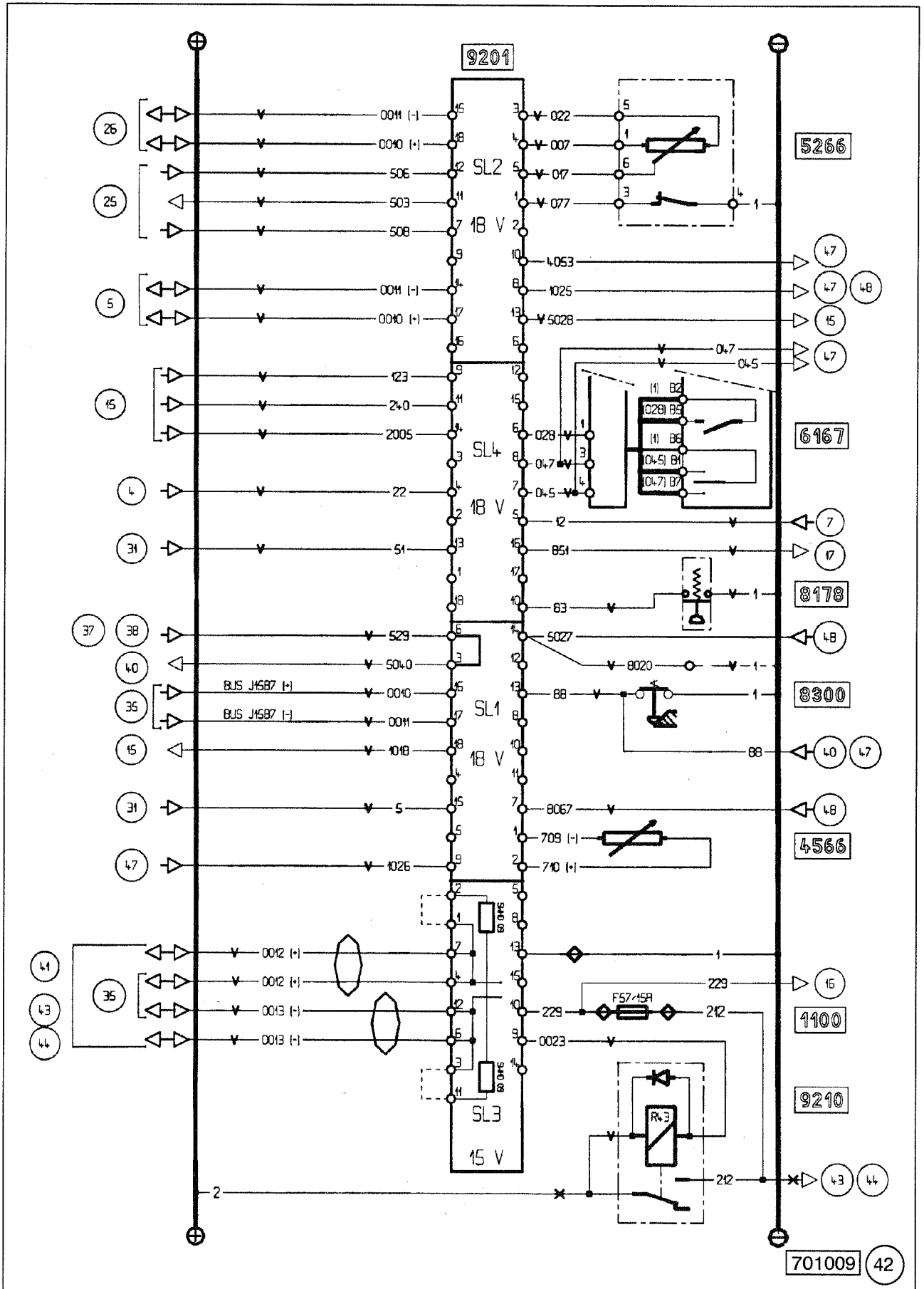


AUTOMATIC GEARBOX

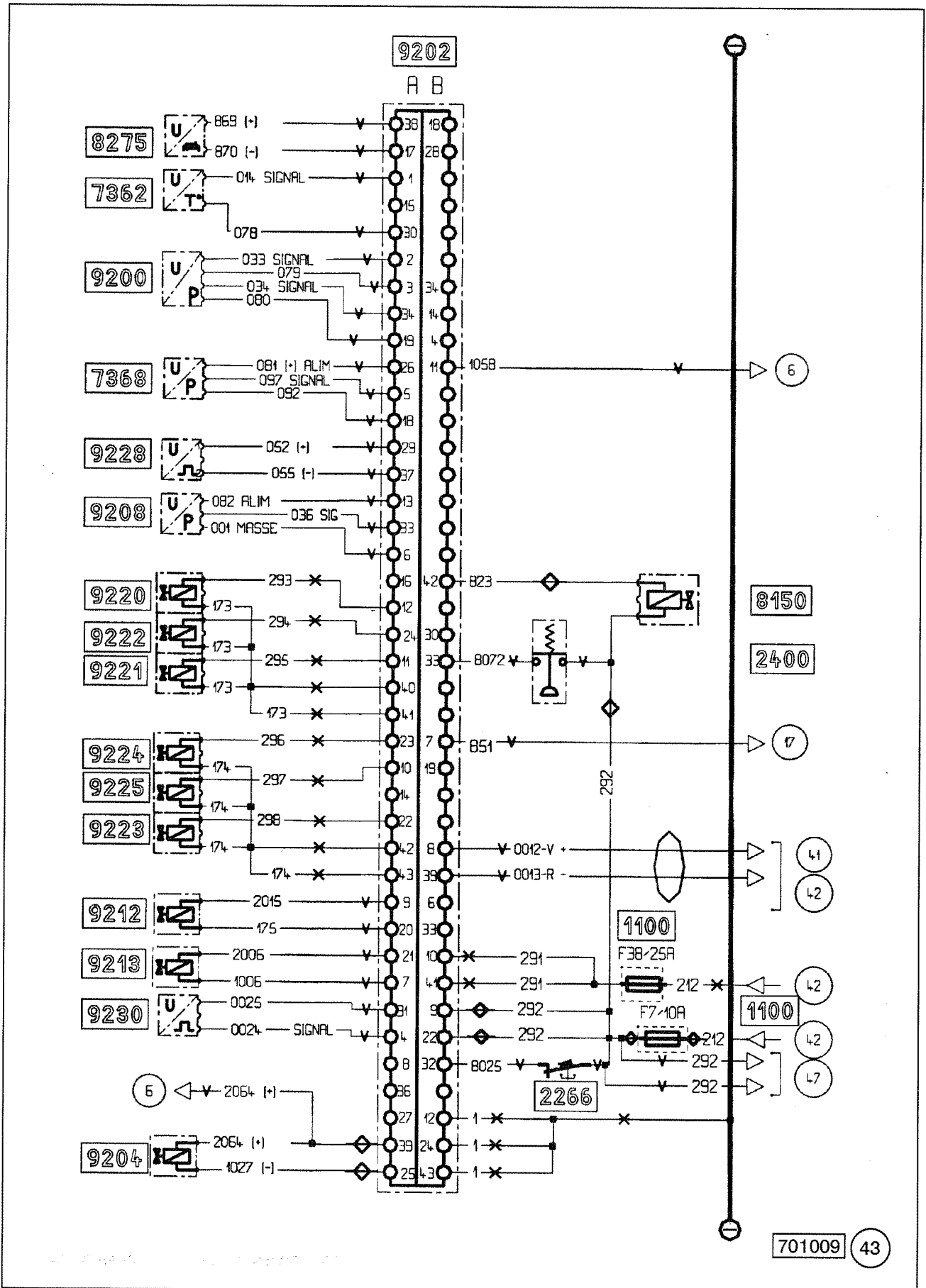


AUTOMATIC GEARBOX

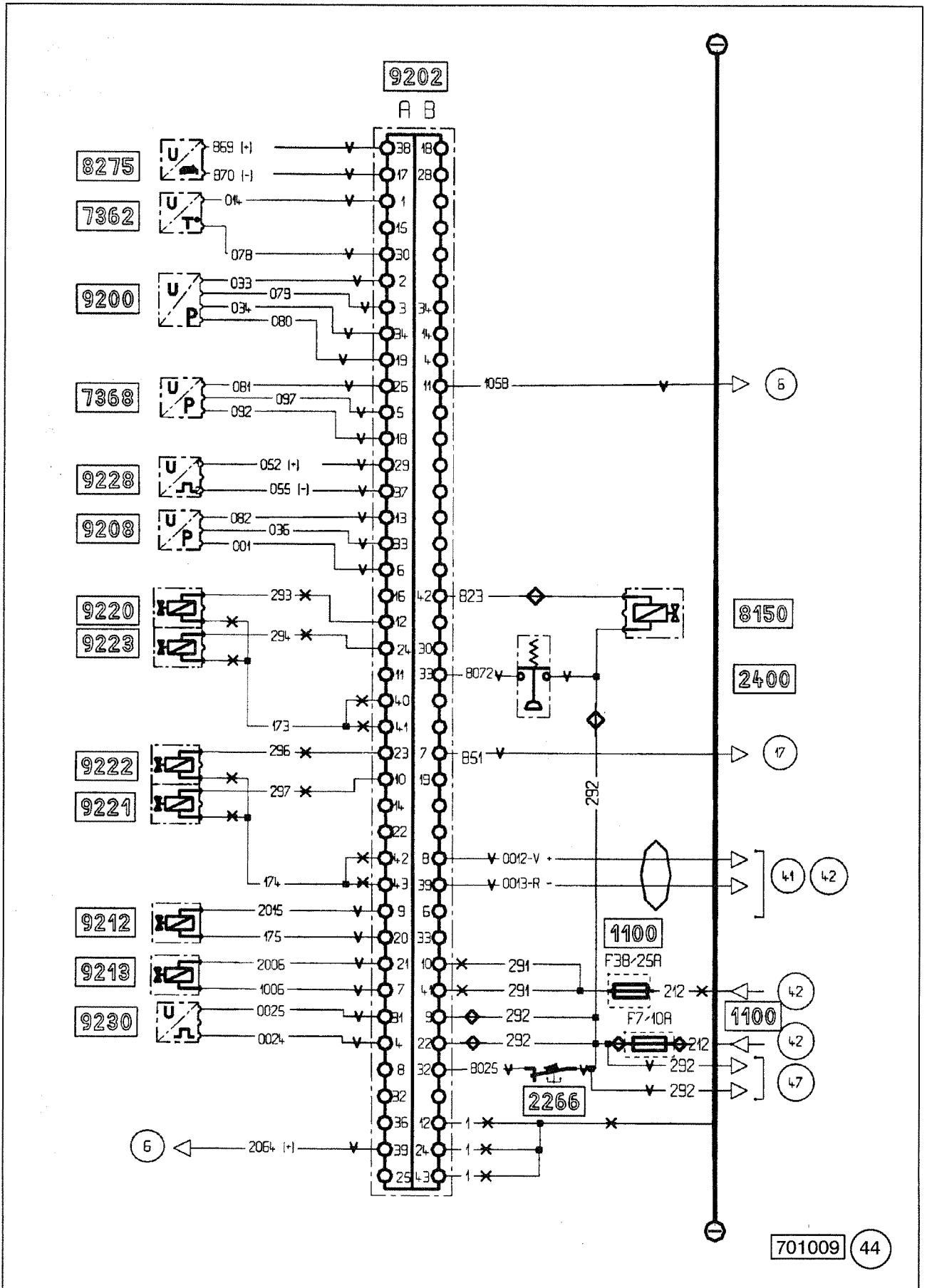




CAB INJECTION CONTROL

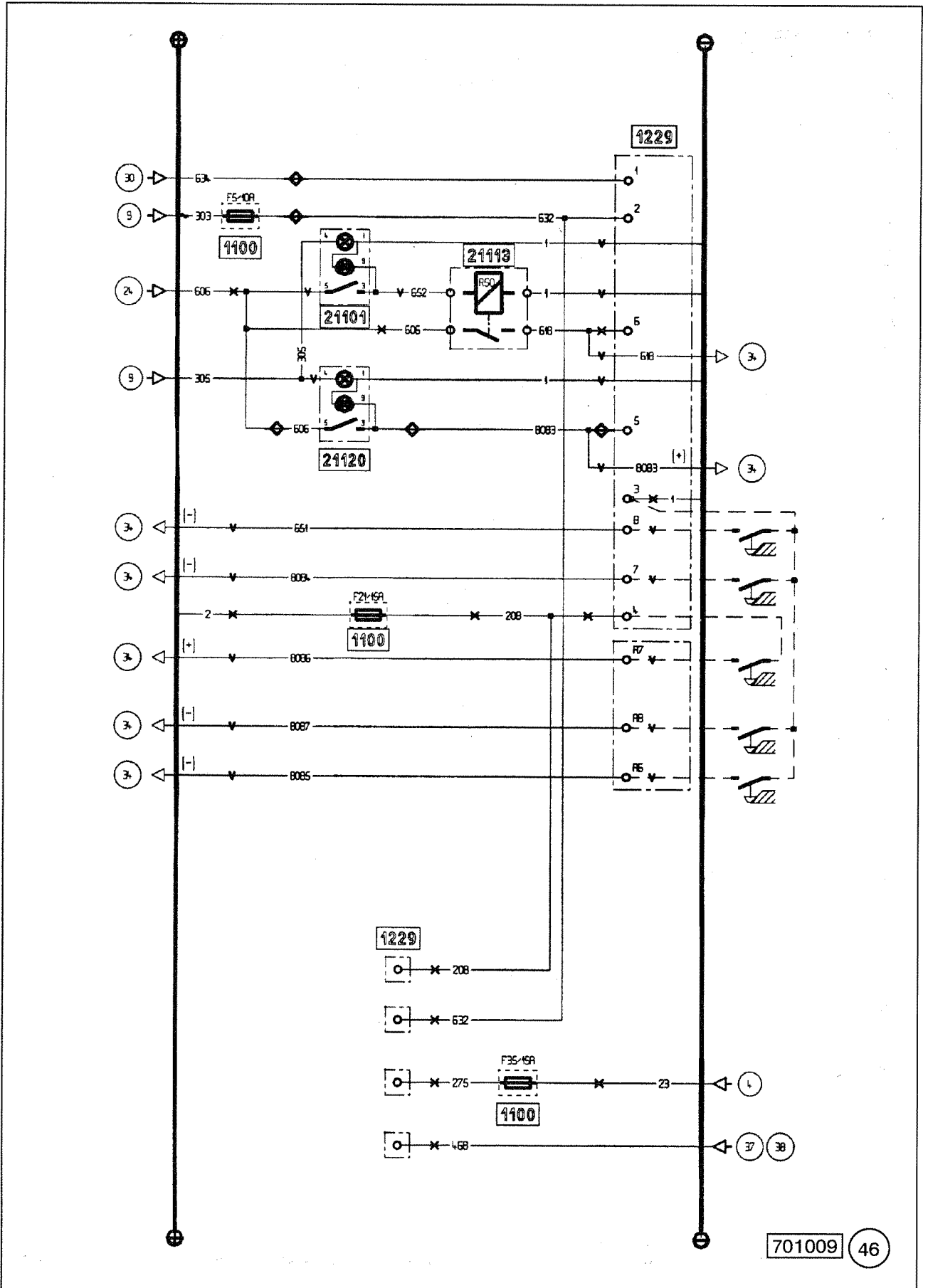


DCI6 ENGINE INJECTION CONTROL

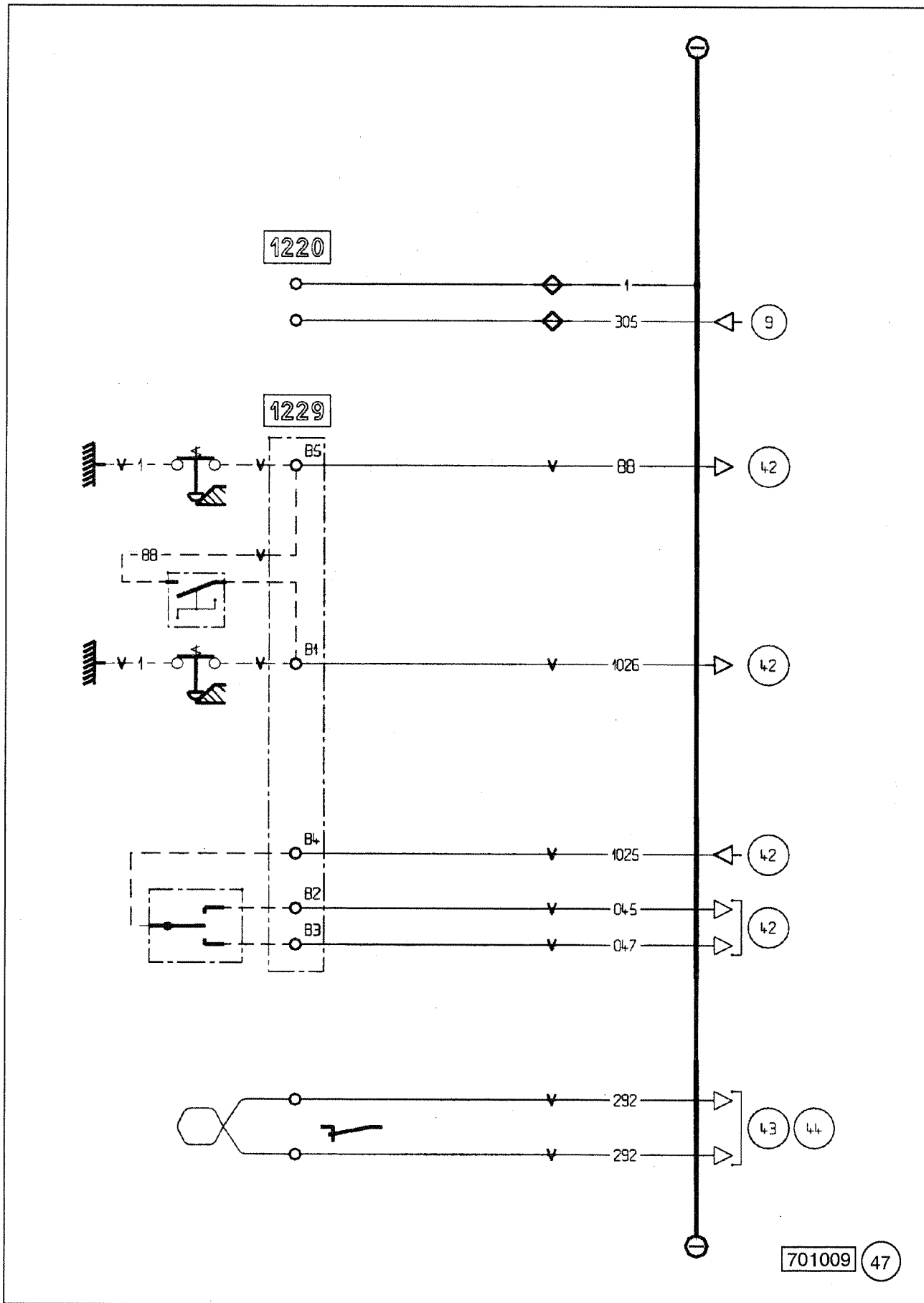


DCI4 ENGINE INJECTION CONTROL

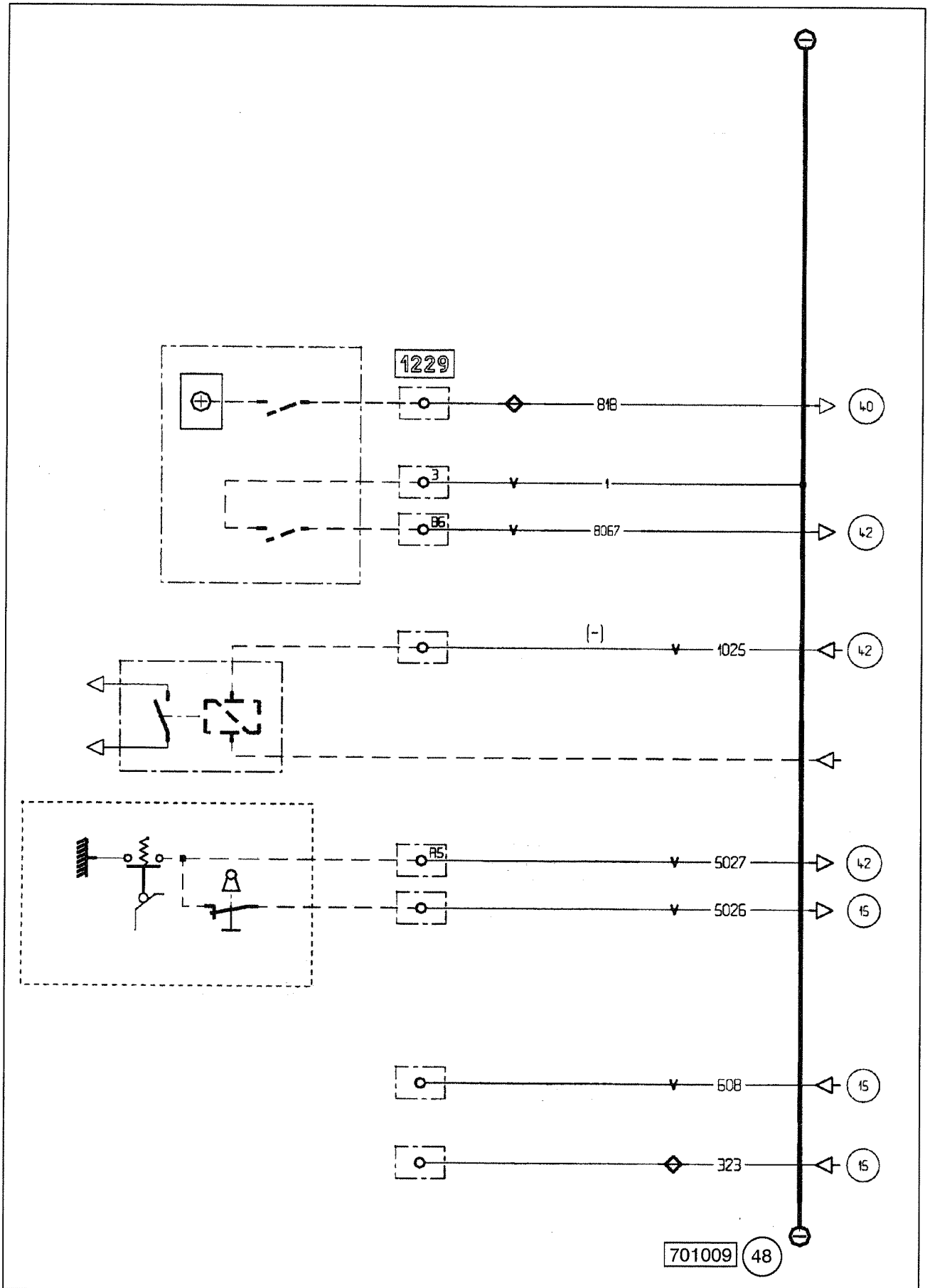




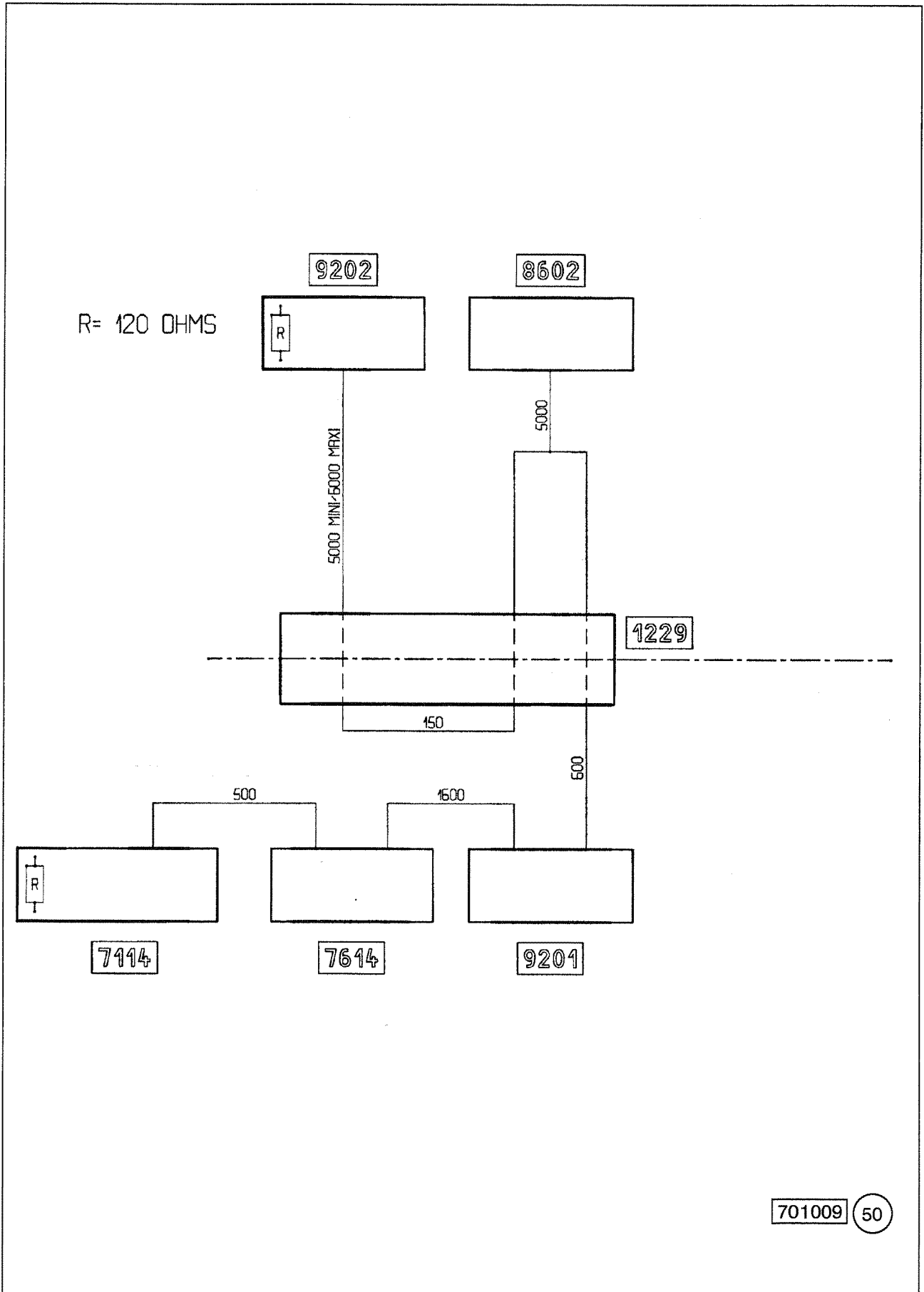
AVAILABLE POWER SUPPLY



AVAILABLE POWER SUPPLY

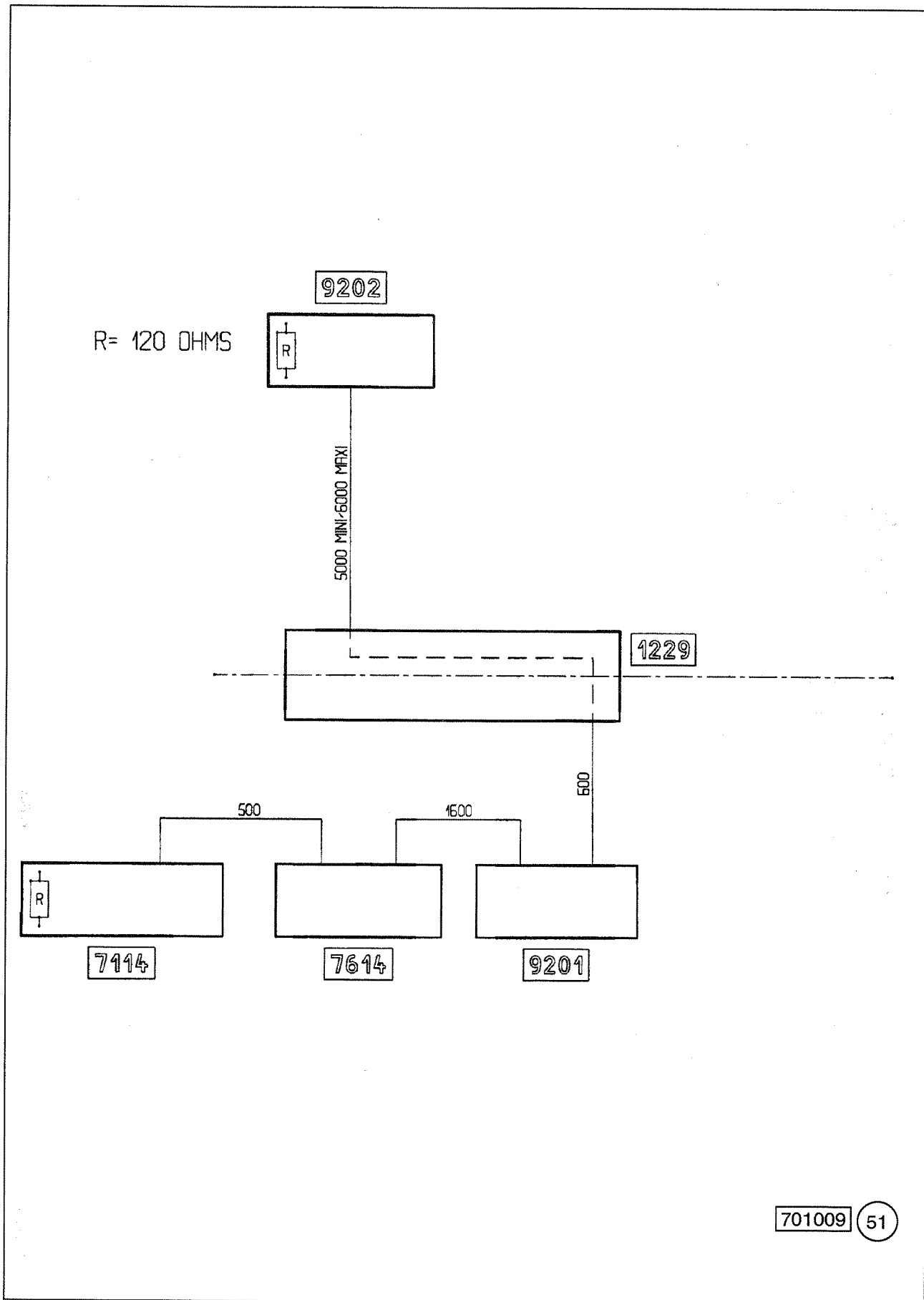


AVAILABLE POWER SUPPLY

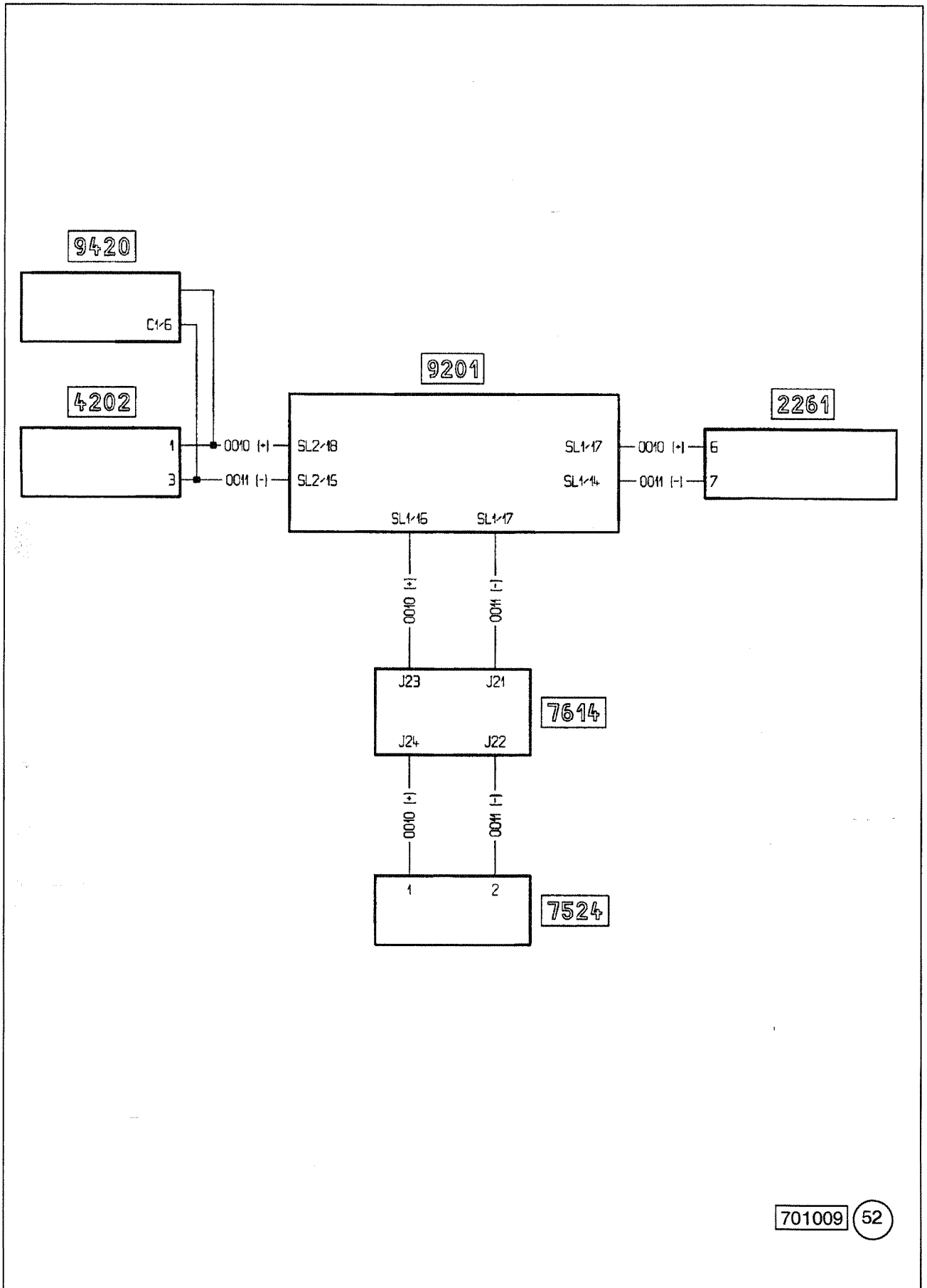


"CAN" COMMUNICATION NETWORK





"CAN" COMMUNICATION NETWORK



## **PINPOINTING OF ELECTRICAL APPLIANCES**

**Electrical equipment on DCI4 engine**

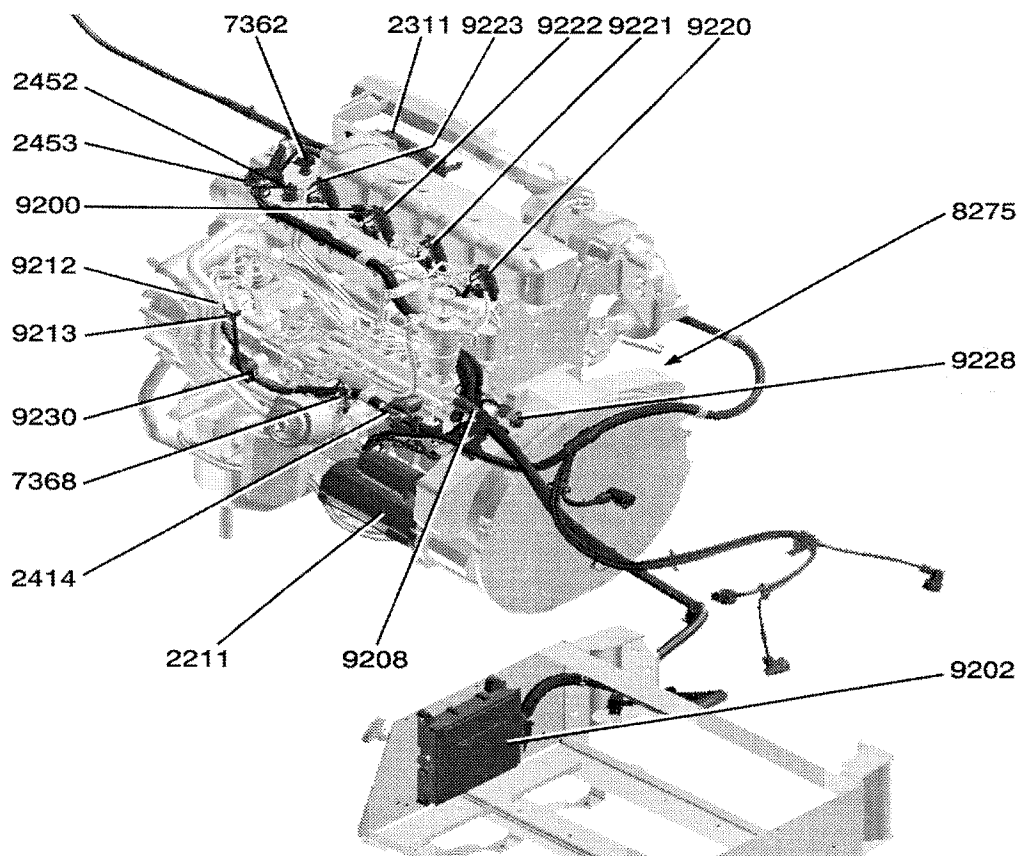
**Electrical equipment on DCI6 engine**

**Vehicle electronic management**

**Electronic air suspension**

**“ABS” equipment**

**Trailer sockets**



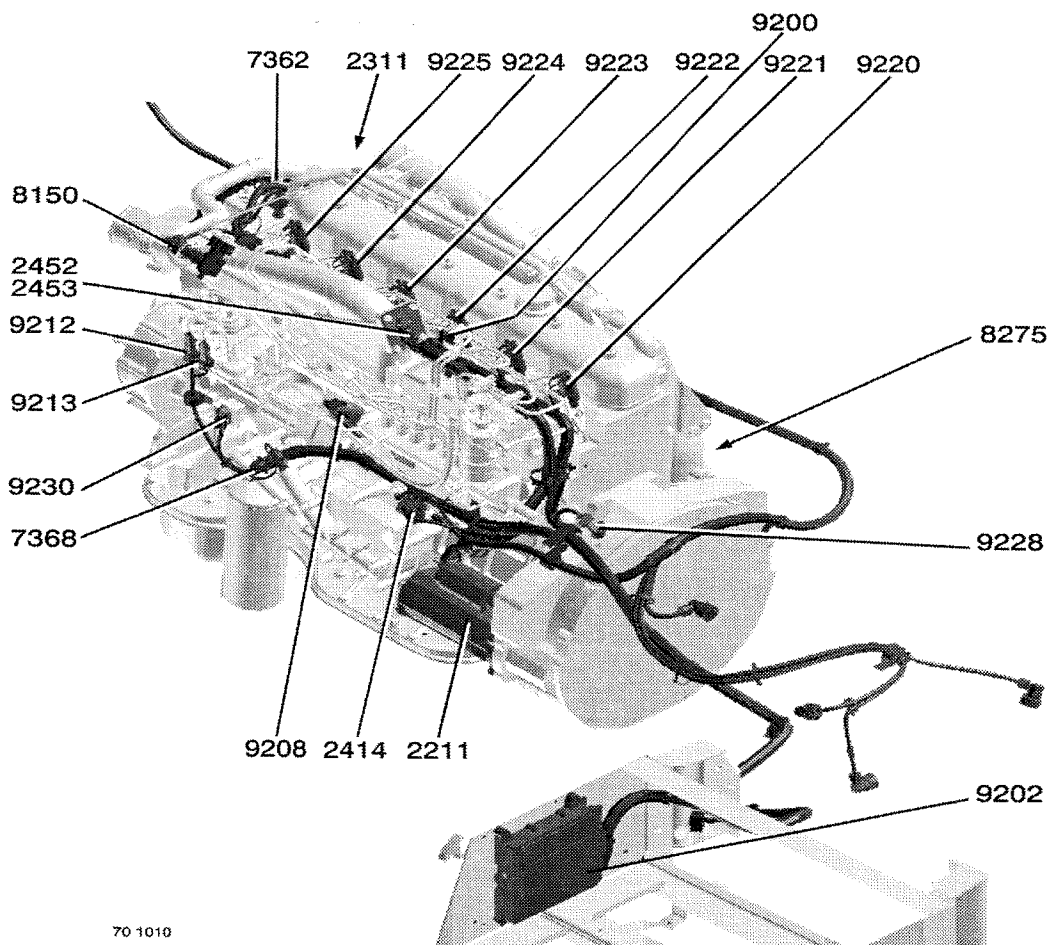
70 1011

**Electrical equipment on DCI4 engine**

## Electrical equipment on DCI4 engine

### Layout of appliances on engine

Appliance	Plate
2211 – Starter .....	7
2311 – Alternator .....	1/2/3
2414 – Preheating relay .....	6
2452 – Preheating resistor N° 1 .....	6
2453 – Preheating resistor N° 2 .....	6
7362 – Coolant temperature sensor .....	44
7368 – Oil pressure sensor .....	44
8275 – Engine oil level sensor .....	44
9200 – Boost air pressure and temperature sensor .....	44
9202 – “EUP” engine master ECU (EECU) .....	44
9208 – Fuel high pressure sensor .....	44
9212 – Fuel flow regulation solenoid valve “2” .....	44
9213 – Fuel flow regulation solenoid valve “1” .....	44
9220 – Unit pump N° 1 incorporating solenoid valve .....	44
9221 – Unit pump N° 2 incorporating solenoid valve .....	44
9222 – Unit pump N° 3 incorporating solenoid valve .....	44
9223 – Unit pump N° 4 incorporating solenoid valve .....	44
9228 – Flywheel speed sensor .....	44
9230 – Camshaft speed sensor .....	44

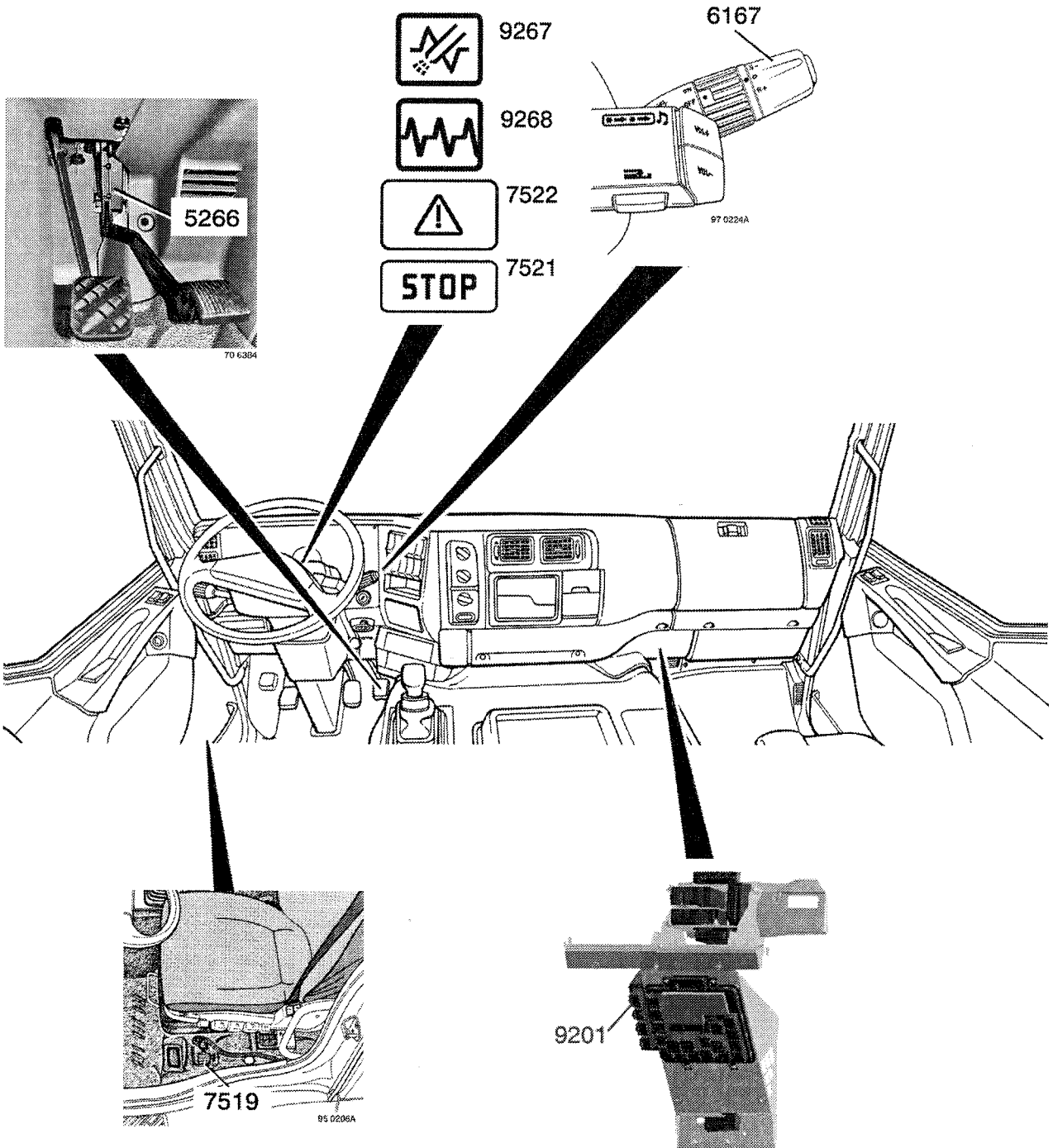


Electrical equipment on DCI6 engine

## Electrical equipment on DCI6 engine

### Layout of appliances on engine

Appliance	Plate
2211 – Starter .....	7
2311 – Alternator .....	1/2/3
2414 – Preheating relay .....	6
2452 – Preheating resistor N° 1 .....	6
2453 – Preheating resistor N° 2 .....	6
7362 – Coolant temperature sensor .....	43
7368 – Oil pressure sensor .....	43
8150 – Exhaust brake electrovalve .....	43
8275 – Engine oil level sensor .....	43
9200 – Boost air pressure and temperature sensor .....	43
9202 – “EUP” engine master ECU (EECU) .....	43
9208 – Fuel high pressure sensor .....	43
9212 – Fuel flow regulation solenoid valve “2” .....	43
9213 – Fuel flow regulation solenoid valve “1” .....	43
9220 – Unit pump N° 1 incorporating solenoid valve .....	43
9221 – Unit pump N° 2 incorporating solenoid valve .....	43
9222 – Unit pump N° 3 incorporating solenoid valve .....	43
9223 – Unit pump N° 4 incorporating solenoid valve .....	43
9224 – Unit pump N° 5 incorporating solenoid valve .....	43
9225 – Unit pump N° 6 incorporating solenoid valve .....	43
9228 – Flywheel speed sensor .....	43
9230 – Camshaft speed sensor .....	43



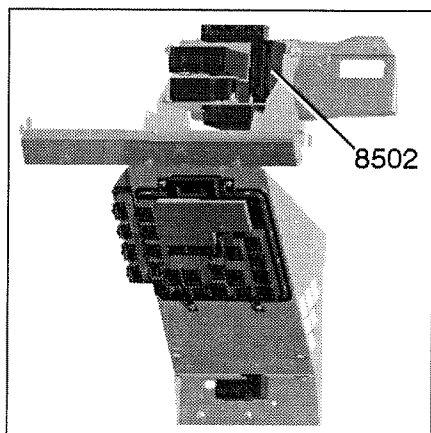
70 6389



## Fuel-injection electronic management

### Layout of appliances in cab

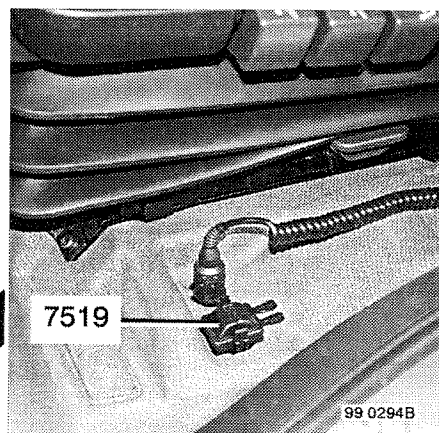
Appliance	Plate
5266 – Accelerator pedal position sensor .....	42
6167 – Steering column fingertip controls (lights, signalling, windscreen wiper transponder, cruise control) .....	5/9/10/14/25/42
7519 – Diagnostics socket .....	17
7521 – Immediate stop “DANGER” warning lamp .....	–
7522 – “SERVICE” warning lamp .....	–
7524 – “SAE” socket .....	17
9201 – Vehicle master ECU (VECU) .....	21/42
9267 – Vehicle major electronic defect warning lamp .....	–
9268 – Vehicle minor electronic defect warning lamp .....	–



8522

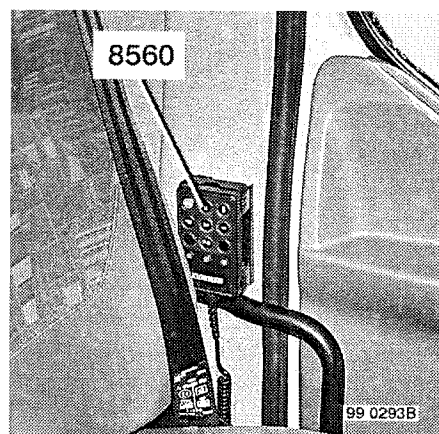


8523



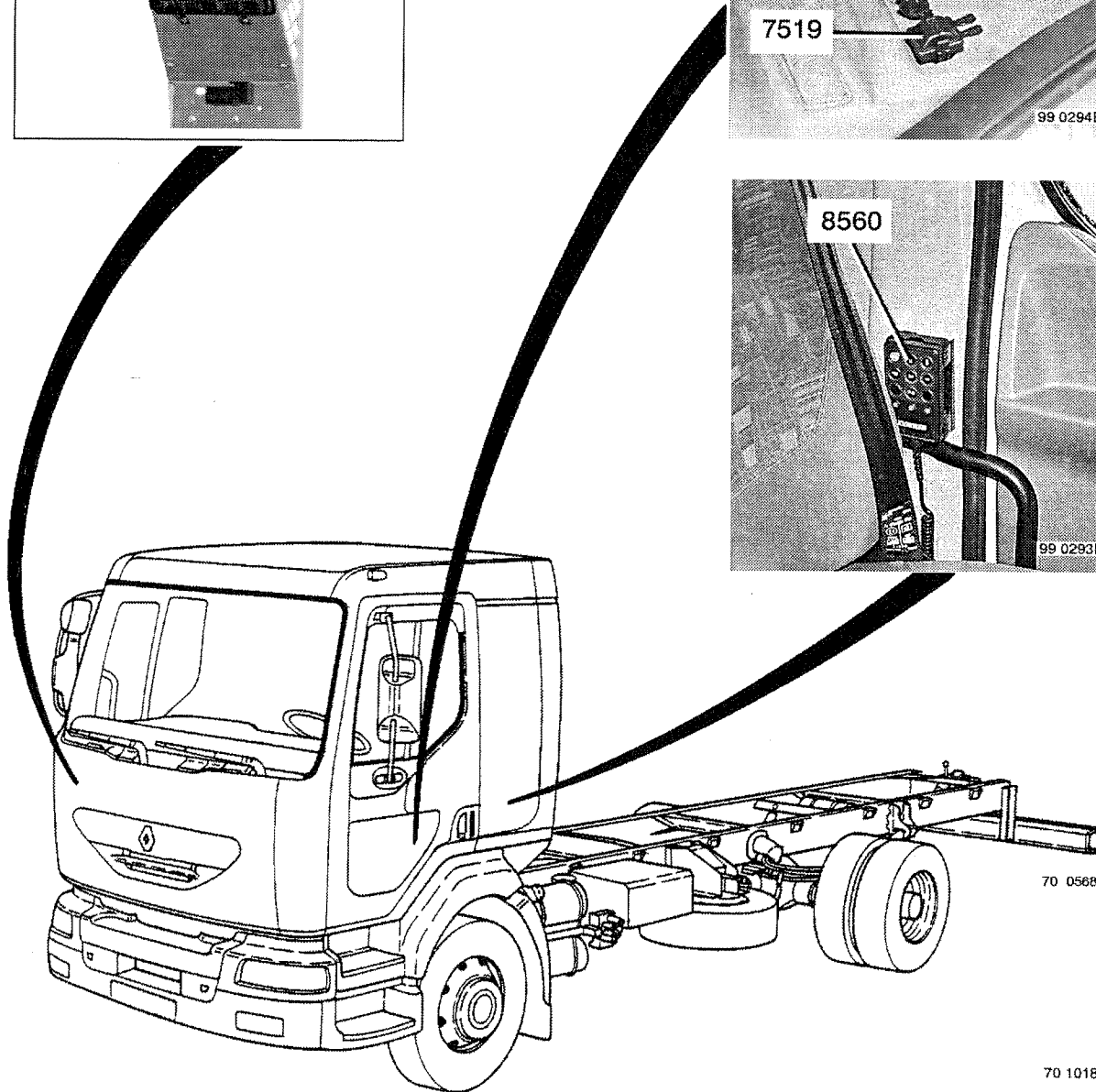
7519

99 0294B



8560

99 0293B



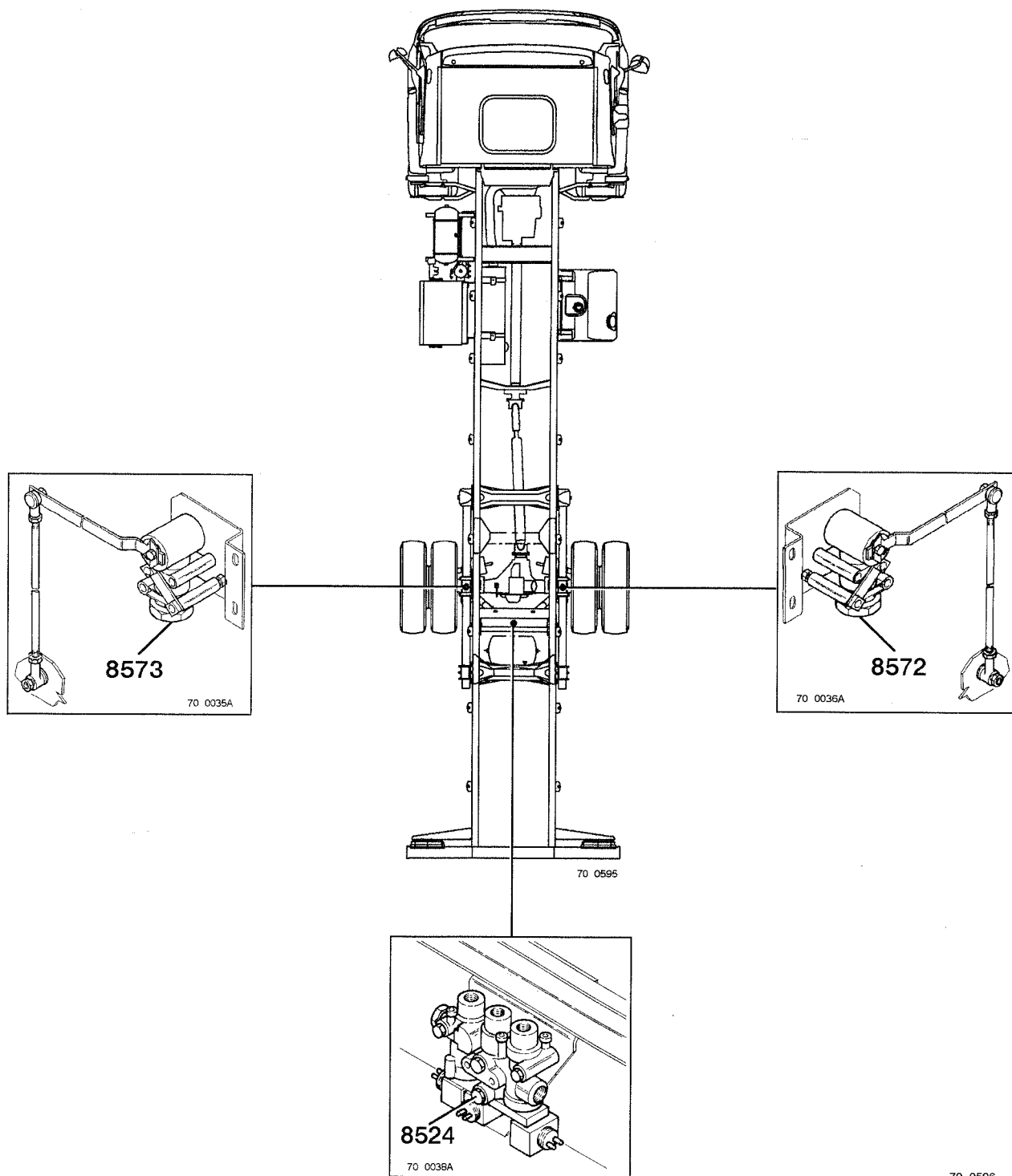
70 0568

70 1018

### Electronic air suspension

#### Layout of appliances in cab

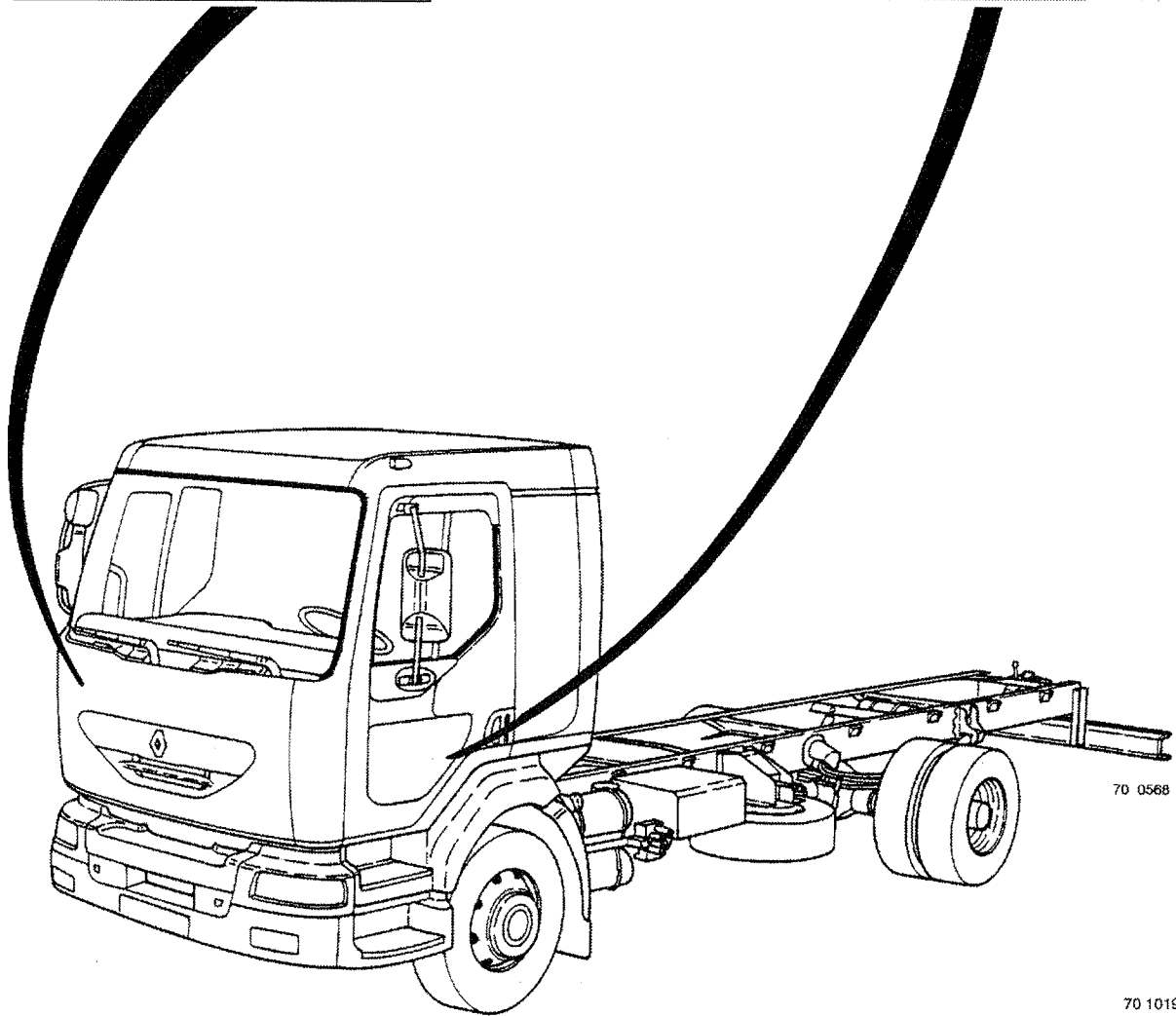
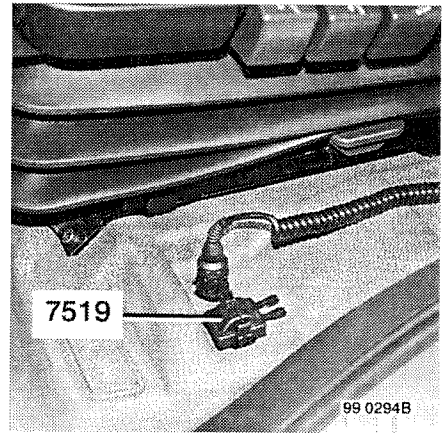
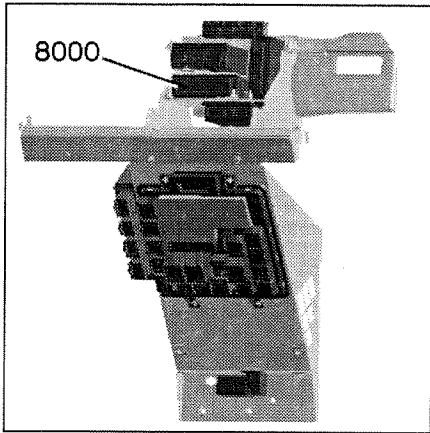
Appliance	Plate
7519 – Diagnostics socket .....	17
8502 – Suspension ECU .....	45
8522 – Suspension information warning lamp .....	34
8523 – Suspension alert warning lamp .....	34
8560 – Remote control box .....	45



**Electronic air suspension**

**Layout of appliances on chassis**

Appliance	Plate
8524 – Rear suspension electrovalve block .....	45
8572 – Suspension level RH rear sensor .....	45
8573 – Suspension level LH rear sensor .....	45

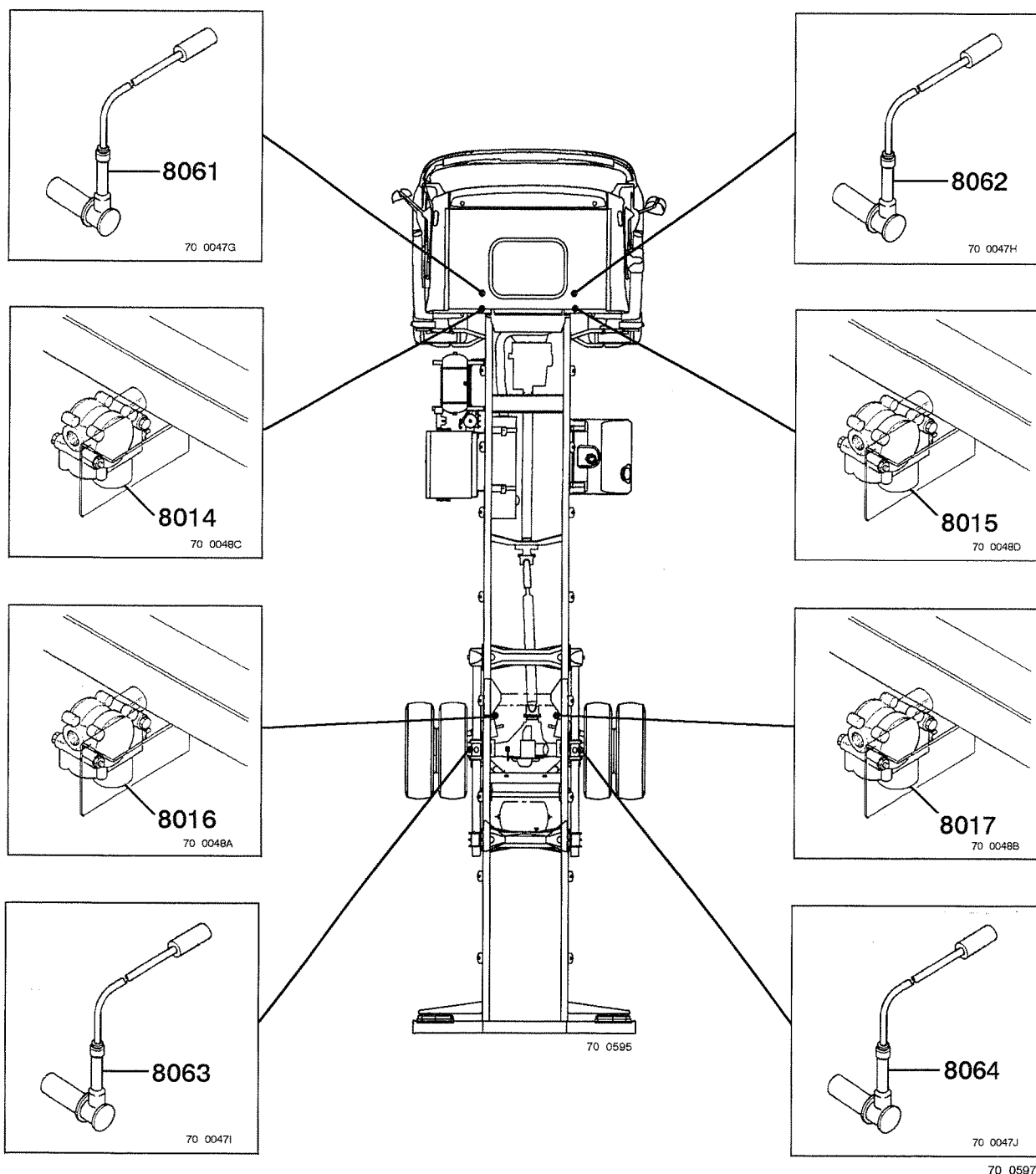


**“ABS” equipment**

**Layout of appliances in cab**

**Appliance**

	<b>Plate</b>
7519 – Diagnostics socket .....	17
8000 – “ABS” ECU .....	37/38
8011 – ABS safety warning lamp .....	35



**“ABS” equipment**

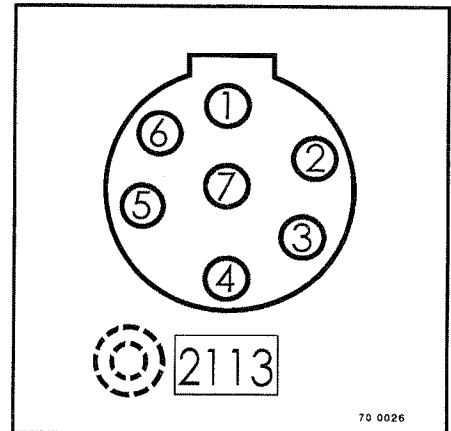
**Layout of appliances on chassis**

Appliance	Plate
8014 – ABS LH front roadwheel electrovalve .....	37/38
8015 – ABS RH front roadwheel electrovalve .....	37/38
8016 – ABS LH rear roadwheel electrovalve .....	37/38
8017 – ABS RH rear roadwheel electrovalve .....	37/38
8061 – ABS LH front roadwheel sensor .....	37/38
8062 – ABS RH front roadwheel sensor .....	37/38
8063 – ABS LH rear roadwheel sensor .....	37/38
8064 – ABS RH rear roadwheel sensor .....	37/38

## Trailer sockets

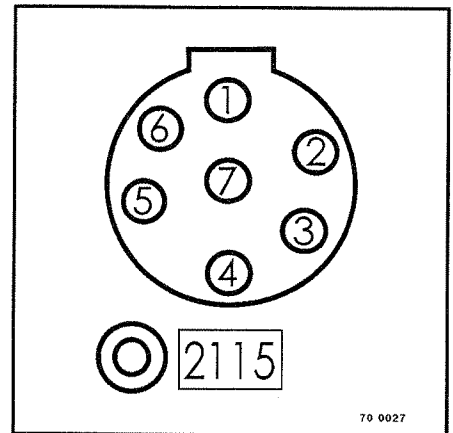
### 2113 – Trailer socket, 7–pin type 24 N

Terminal	Assignment	Fuse	Amp.	Wire
1	Earth	–	–	1
2	Trailer LH side/parking lights	F4	10A	634
3	Trailer LH flashing lights	F34	15A	39
4	Trailer stop lights	F27	10A	3
5	Trailer RH flashing lights	F34	15A	30
6	Trailer RH side/parking lights	F4	10A	634
7	Available	–	–	–



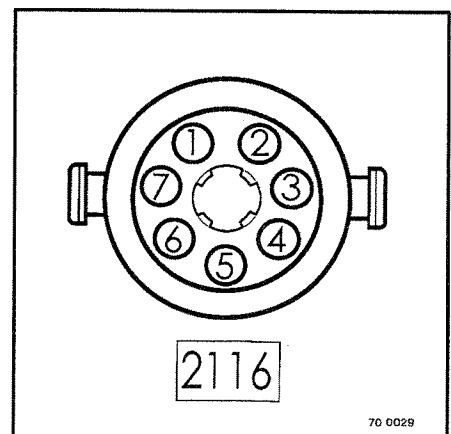
### 2115 – Trailer socket, 7–pin type 24 S

Terminal	Assignment	Fuse	Amp.	Wire
1	Earth	–	–	1
2	Vehicle protection	–	–	0403
3	Trailer reversing lights	F46	10A	608
4	Power supply (after master switch)	F43	10A	606
5	Trailer “ABS” safety warning light	–	–	352
6	Power supply (after ignition)	F1	10A	211
7	Trailer fog lights	F8	15A	307

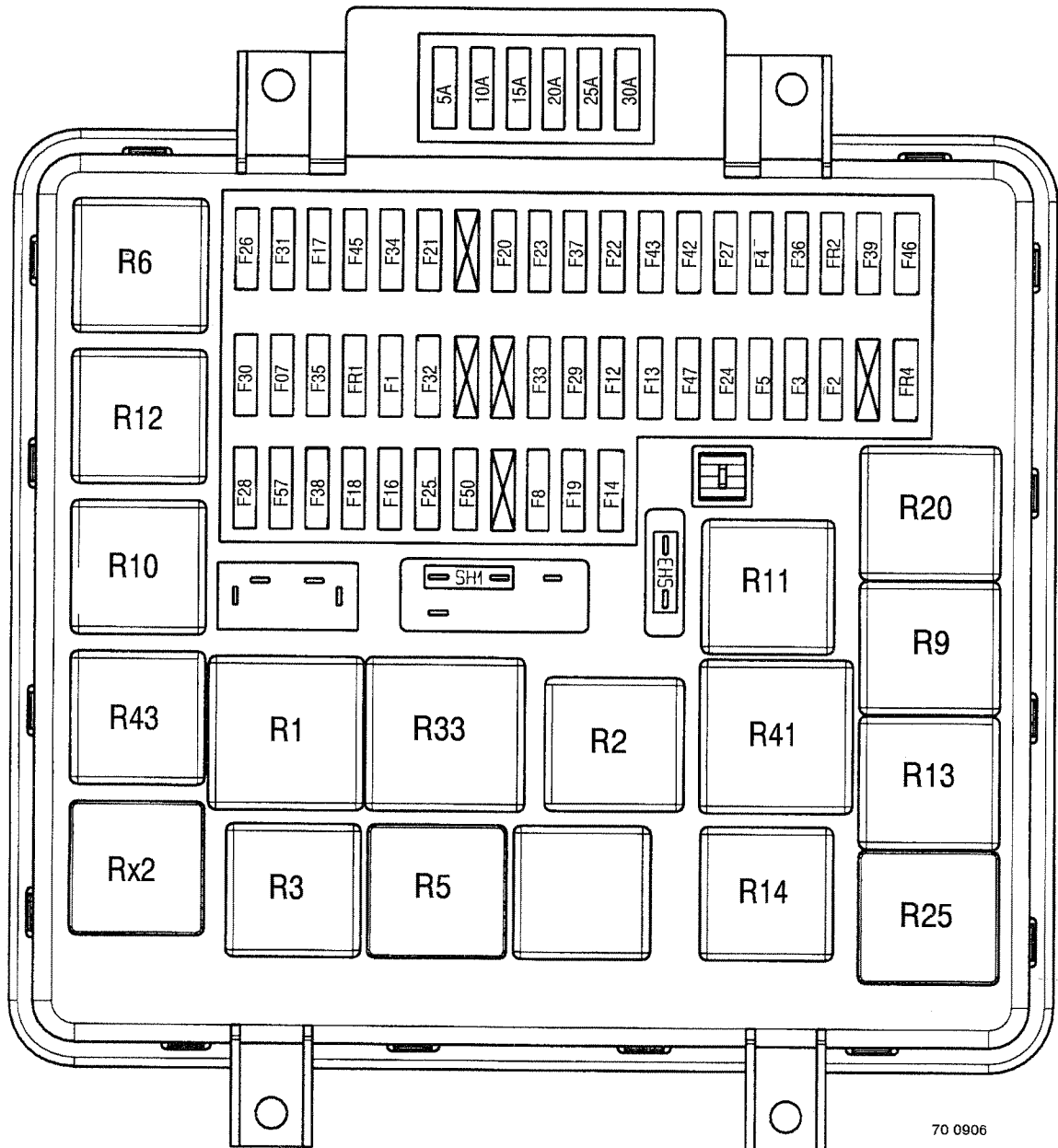


### 2116 – Trailer socket, 7–pin type ABS

Terminal	Assignment	Fuse	Amp.	Wire
1	Power supply (after master switch)	F36	20A	522
2	Power supply (after ignition)	F1	10A	211
3	Earth	–	–	1
4	Earth	–	–	1
5	Trailer “ABS” safety warning light	–	–	352
6	Available	–	–	–
7	Available	–	–	–



**FUSES  
RELAYS**



70 0906



## FUSES

## Table of fuses on connection unit

Assignment	Item	Amp.	Plate
Trailer socket 7-pin ("ABS")	F1	15	4
Trailer socket, 7-pin type 24 S	F1	15	4
Stop lights relay	F1	15	4
Front side/parking lights	F2	10	9
RH rear side/parking lights	F2	10	9
Registration plate RH light	F2	10	9
Voltage dropper (headlamps adjustment)	F2	10	9
Marker lights	F3	10	9
LH rear side/parking lights	F3	10	9
Registration plate LH light	F3	10	9
Dashboard instruments lighting	F3	10	9
Switch lighting	F3	10	9
Trailer side/parking lights	F4	10	30
Available power supply (lighting)	F5	10	46
Jake brake electrovalves	F7	10	43/44
Engine stop control	F7	10	43/44
Fuel filter clogging	F7	10	43/44
"EUP" ECU	F7	10	43/44
Fog light(s)	F8	15	10
Fog driving lights	F8	15	10
LH dipped beam headlight	F13	10	10
RH dipped beam headlight	F12	10	10
RH main beam headlight	F14	15	11
LH main beam headlight	F14	15	11
Long beam driving lights	F14	15	11
Dashboard warning lights and instruments power supply	F16	10	4
Electric or hydraulic retarder control	F16	10	4
Exhaust brake electrovalve	F16	10	4
"ABS-ASR" ECU	F16	10	4
Heated driver's seat	F17	20	27
Voltage dropper (12V socket)	F17	20	27
Voltage dropper (telecommunications)	F17	20	27
Fan coil heaters	F18	15	32
Fuel filter preheater	F19	25	8
Revolving beacons	F20	20	15
Roof air vent motor	F20	20	15
Power supply (after master switch)	F21	10	46
Independent heater AT 2000	F22	20	33
Driver's overhead light	F23	10	24
Passenger(s) overhead light	F23	10	24
Driver's window winder motor	F24	20	19
Passenger's window winder motor	F24	20	19
Tachograph clock	F25	5	16
Horn	F26	15	14
Stop lights	F27	10	15
"ABS" ECU	F28	15	37/38
Electric retarder cut-off relay	F28	15	37/38
Defrosting rearview mirrors	F29	10	22/23
Windscreen defrosting time-delay relay	F29	10	22/23
Cigar lighter	F30	10	26/27/28
Radio	F30	10	26/27/28
Socket 24 Volts	F31	20	27
Voltage dropper (extra 12V socket)	F31	20	27
Windscreen wiper speed controller	F32	20	25
Windscreen washer pump	F32	20	25
Headlamps washer pump	F32	20	25
Windscreen wiper motor	F32	20	25

## FUSES

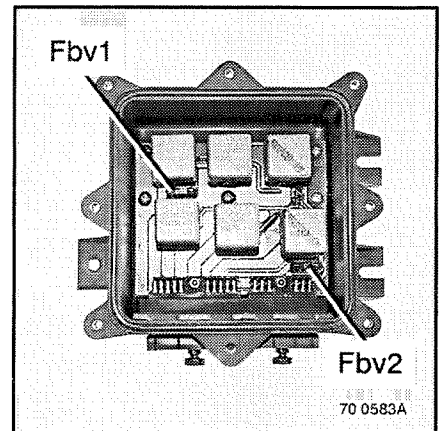
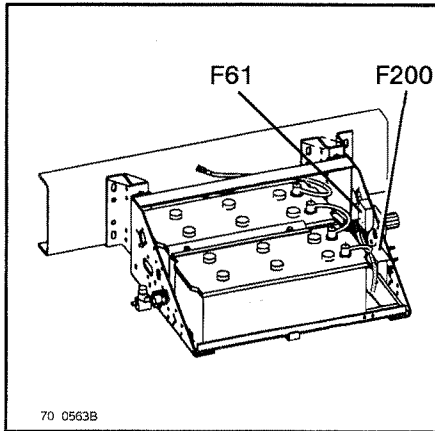
**Table of fuses on connection unit**

Assignment	Item	Amp.	Plate
Diagnostics socket	F33	20	17
Suspension ECU	F33	20	17
Radio tuner memory power supply	F34	15	4
Independent heater AT 2000	F34	15	4
Flasher unit	F34	15	4
Trailer socket 7-pin ("ABS")	F36	20	30
LH door lock electric striker	F37	15	18
RH door lock electric striker	F37	15	18
External rearview mirrors swivelling control	F37	15	18
Step light	F37	15	18
LH rear door overhead light	F37	15	18
RH rear door overhead light	F37	15	18
"EUP" ECU	F38	25	43/44
Automatic gearbox ECU	F39	10	4
Automatic gearbox ECU power supply	F42	10	40
Loading floodlight (tractor)	F43	10	4
Trailer socket, 7-pin type 24 S	F43	10	4
Bodybuilder equipment control	F43	10	4
Gate valves illumination control	F43	10	4
Exhaust brake cut-off relay	F43	10	4
Doors central locking box	F45	10	18
Fuel preheater relay	F46	15	4
Reversing lamp(s)	F46	15	4
Reversing buzzer	F46	15	4
Rearview mirrors defrosting relay	F46	15	4
Suspension ECU	F47	10	45
Suspension remote control box	F47	10	45
Windscreen wiper time-delay relay	F52	10	4
"EUP" VECU ECU	F57	15	42
Electronic tachograph	F57	15	42

## FUSES

### Table of fuses away from connection unit

Assignment	Item	Amp.	Plate
Windscreen defrosting .....	F61	50	29
Available power supply (before master switch)			
Automatic gearbox relays box			
Automatic gearbox relays box			



**Shunts**

Depending on assembly, the vehicle is fitted with the following shunts :

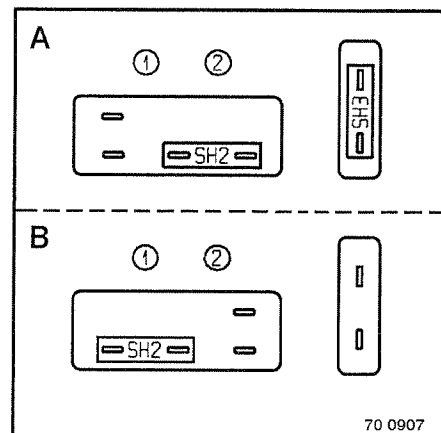
SH1 : not used

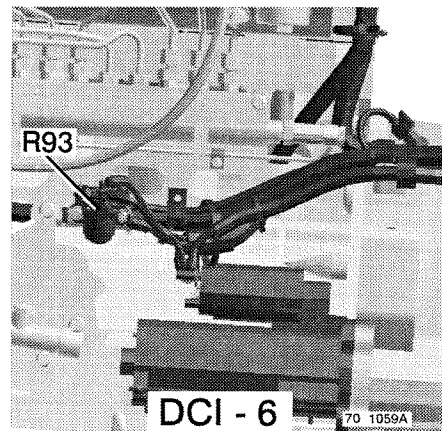
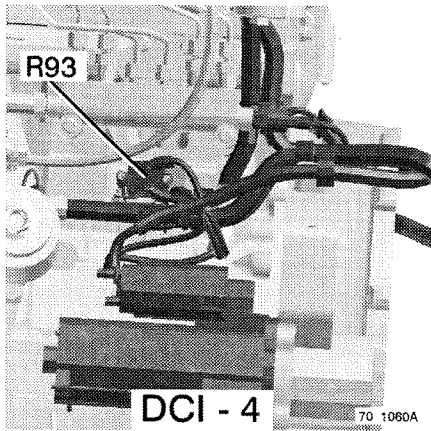
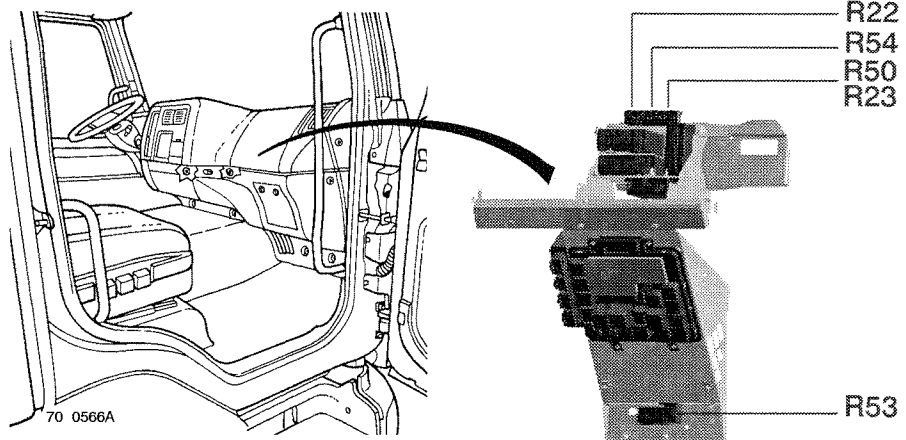
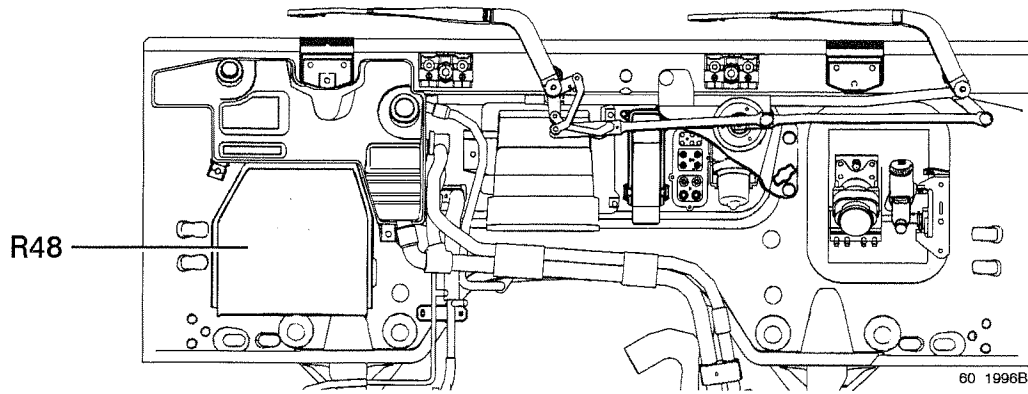
SH2 : ADR shunt

SH3 : daytime lights shunt. Depending on applicable legislation, in some countries, when the engine is started up, side/parking lights and dipped beam headlights must be on.

Configuration A : With ADR and with daytime lights.

Configuration B : Without ADR and without daytime lights.





70 1062A

## RELAYS

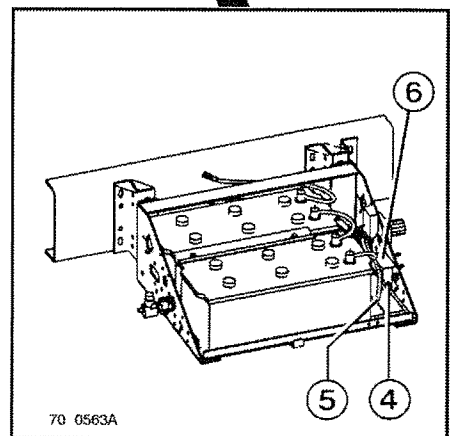
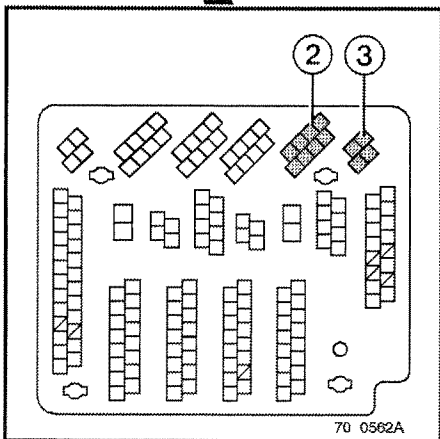
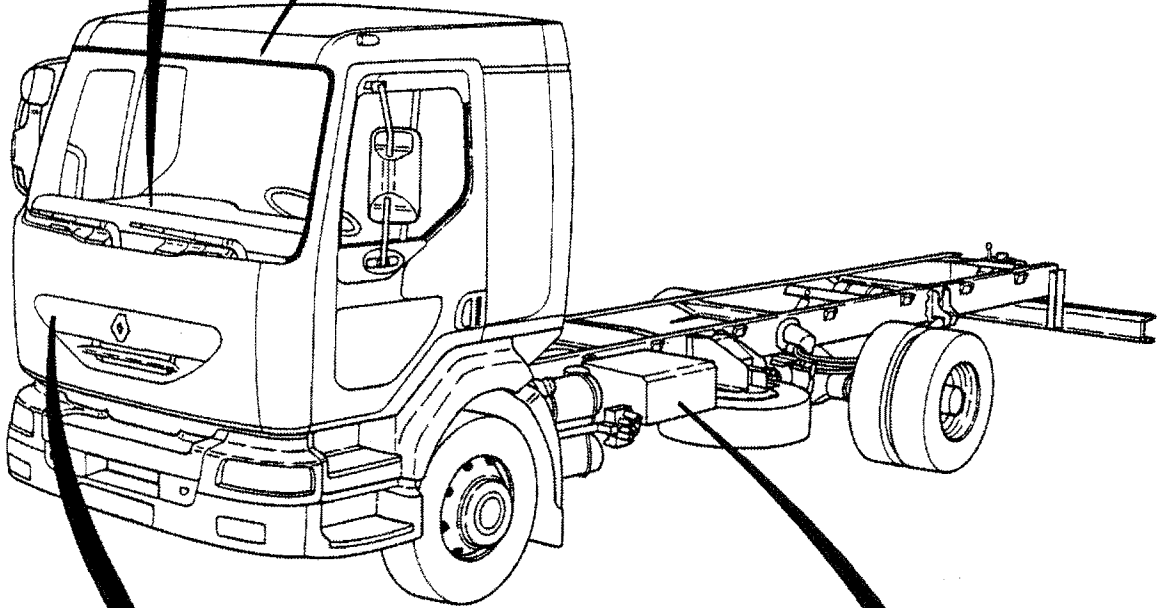
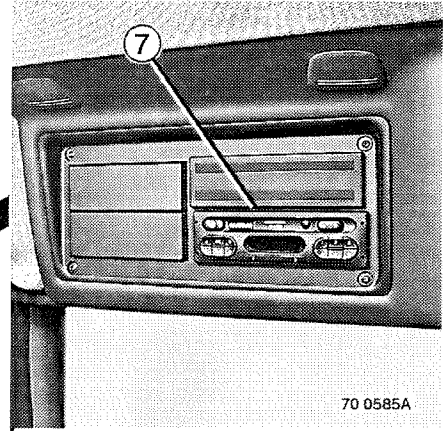
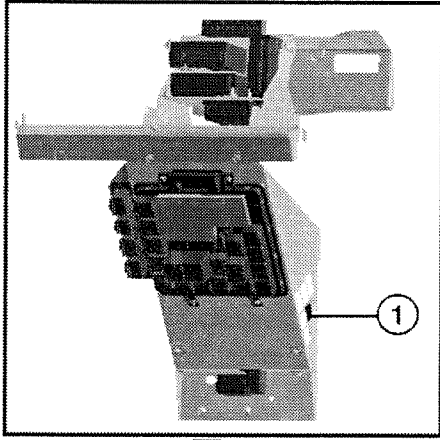
## Table of relays on connection unit

Assignment	Item	Amp.	Plate
After ignition power supply relay N° 1	R1	50	4
Power after ignition relay	R2	20	4
Windscreen wiper safety relay	R3	20	25
Side / parking lights relay	R5	20	9
Comfort accessories relay	R6	20	27
Fog driving lights relay	R9	20	10
Fog lights relay	R10	20	10
Dipped beam headlights relay	R11	20	10
Main beam headlights relay	R12	20	10
Long range driving lights	R13	20	11
Stop lights relay	R14	20	15
Electric retarder cut-off relay	R18	20	37/38
Rearview mirrors and windscreen defrosting relay	R20	50	22/23
Revolving beacon(s) relay	R23	20	15
Windscreen wiper relay	R25	20	15
Starting relay	R33	50	7
Fuel preheater relay	R41	50	8
"VECU / EECU" ECU power supply relay	R43	50	42

## Table of relays away from connection unit

Assignment	Item	Amp.	Plate
Neutral relay	R22	20	40
Revolving beacon(s) relay	R23	20	15
Zero speed relay	R34	20	...
"ALLISON" gearbox zero speed relay	R34	20	-
Windscreen defrosting relay (time-delayed)	R48	20	29
Exhaust brake cut-off relay	R70	20	-
Preheating relay	R93	50	6
Headlamp washer time-delay relay	R53	20	25
Available power supplies relay (bodybuilder equipment)	R50	20	46
Reversing lights relay	R54	20	15

**AVAILABLE POWER SUPPLIES**





**AVAILABLE POWER SUPPLIES****REFUSE COLLECTOR Equipment****LOCATION 1****3 insulated stand-by wires**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Available power supply (after master switch) .....	208	F21	15
Available power supply (lighting) .....	632	F5	10
Available power supply (after ignition) .....	275	F35	10

**LOCATION 2****BROWN connector**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Earth .....	1	—	—
Available power supply (after master switch) .....	208	F21	15
Available power supply (lighting) .....	618	F43	10
Available power supply (lighting) .....	632	F5	10
Available power supply (lighting) .....	634	F4	10
Available power supply (equipment in working position "Alert" warning light) .....	651	F16	10
Available power supply (bodybuilder's equipment control) .....	8083	—	—
Available power supply (handrail deployed "Alert" warning light) .....	8084	—	—

**LOCATION 4****2 insulated stand-by wires**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Earth .....	1	—	—
Available power supply (lighting) .....	632	F5	10

**LOCATION 5****6 insulated stand-by wires**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Earth .....	1	—	—
Available power supply (after master switch) .....	208	F21	15
Available power supply (lighting) .....	618	F43	10
Available power supply (lighting) .....	632	F5	10
Available power supply (lighting) .....	634	F4	10
Available power supply (equipment in working position "Alert" warning light) .....	651	F16	10
Available power supply (bodybuilder's equipment control) .....	8083	—	—
Available power supply (handrail deployed "Alert" warning light) .....	8084	—	—

**LOCATION 6**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Power supply (before master switch) .....	201	F200	200

**Pre-equipped vehicles**

With an electrical bodywork pre-equipment, a tailgate, a refrigerator unit, a tipper or a crane, a wiring harness connected to the location, brings in the available power supplies to the locations.

**LOCATION 7****4 insulated stand-by wires**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Available + 12V power supply (radiotelephone) .....	46	F17	20
Available – power supply (radiotelephone) .....	155	–	–
Available + 12V power supply (CB) .....	4000	F17	20
Available – power supply (CB) .....	144	–	–
Radiotelephone antenna cable			
CB antenna cable			

**WHITE connector**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Radio power supply (memory) .....	202	F34	15
Radio + power supply .....	47	F30	10
Radio – power supply .....	1	–	–

**REFUSE COLLECTOR Equipment****LOCATION 8****10 insulated stand-by wires**

Available power supply (engine speed) .....	045	–	–
Available power supply (engine speed) .....	047	–	–
Available power supply (PTO) .....	88	–	–
Available power supply (engine speed) .....	1025	–	–
Available power supply (PTO) .....	1026	–	–
Available power supply (30 km/h speed limitation) .....	5027	–	–
Available power supply (fast idling control) .....	8067	–	–
Available power supply ("pod or crane deployed" warning light) .....	8085	–	–
Available power supply ("sideboard open" warning light) .....	8086	–	–
Available power supply ("tipper raised" warning light) .....	8087	–	–

## AVAILABLE POWER SUPPLIES

### REFUSE COLLECTOR Equipment BOM

#### LOCATION 1

##### YELLOW connector

Assignment	Wire	Fuse	Amp.
Available power supply (30 km/h speed limitation) .....	5027	—	—
Available power supply ("ALLISON" power take-off) .....	818	—	—
Available power supply (compacting request) .....	8067	—	—
Available power supply (reversing forbidden) .....	5026	—	—

##### RED connector

Assignment	Wire	Fuse	Amp.
Available power supply (engine speed) .....	045	—	—
Available power supply (engine speed) .....	047	—	—
Available power supply (PTO) .....	88	—	—
Available power supply (revolving beacons) .....	323	—	—
Available power supply (reversing lights) .....	608	—	—
Available power supply (engine speed) .....	1025	—	—
Available power supply (PTO) .....	1026	—	—
Available power supply (chassis warning light) .....	8084	—	—

##### 4 insulated stand-by wires

Assignment	Wire	Fuse	Amp.
Power supply 24 V .....	202	—	—
Available power supply (after master switch) .....	208	F21	15
Available power supply (after ignition) .....	275	F35	10
Available power supply (lighting) .....	632	F5	10

#### LOCATION 3

##### BLUE connector

Assignment	Wire	Fuse	Amp.
Available power supply (engine speed) .....	045	—	—
Available power supply (engine speed) .....	047	—	—
Available power supply (PTO) .....	88	—	—
Available power supply (engine speed) .....	1025	—	—
Available power supply (PTO) .....	1026	—	—
Available power supply (30 km/h speed limitation) .....	5027	—	—
Available power supply (fast idling control) .....	8067	—	—
Available power supply ("pod or crane deployed" warning light) .....	8085	—	—
Available power supply ("sideboard open" warning light) .....	8086	—	—
Available power supply ("tipper raised" warning light) .....	8087	—	—

#### LOCATION 4

##### 2 insulated stand-by wires

Assignment	Wire	Fuse	Amp.
Earth .....	1	—	—
Available power supply (lighting) .....	632	F5	10

**LOCATION 5****6 insulated stand-by wires**

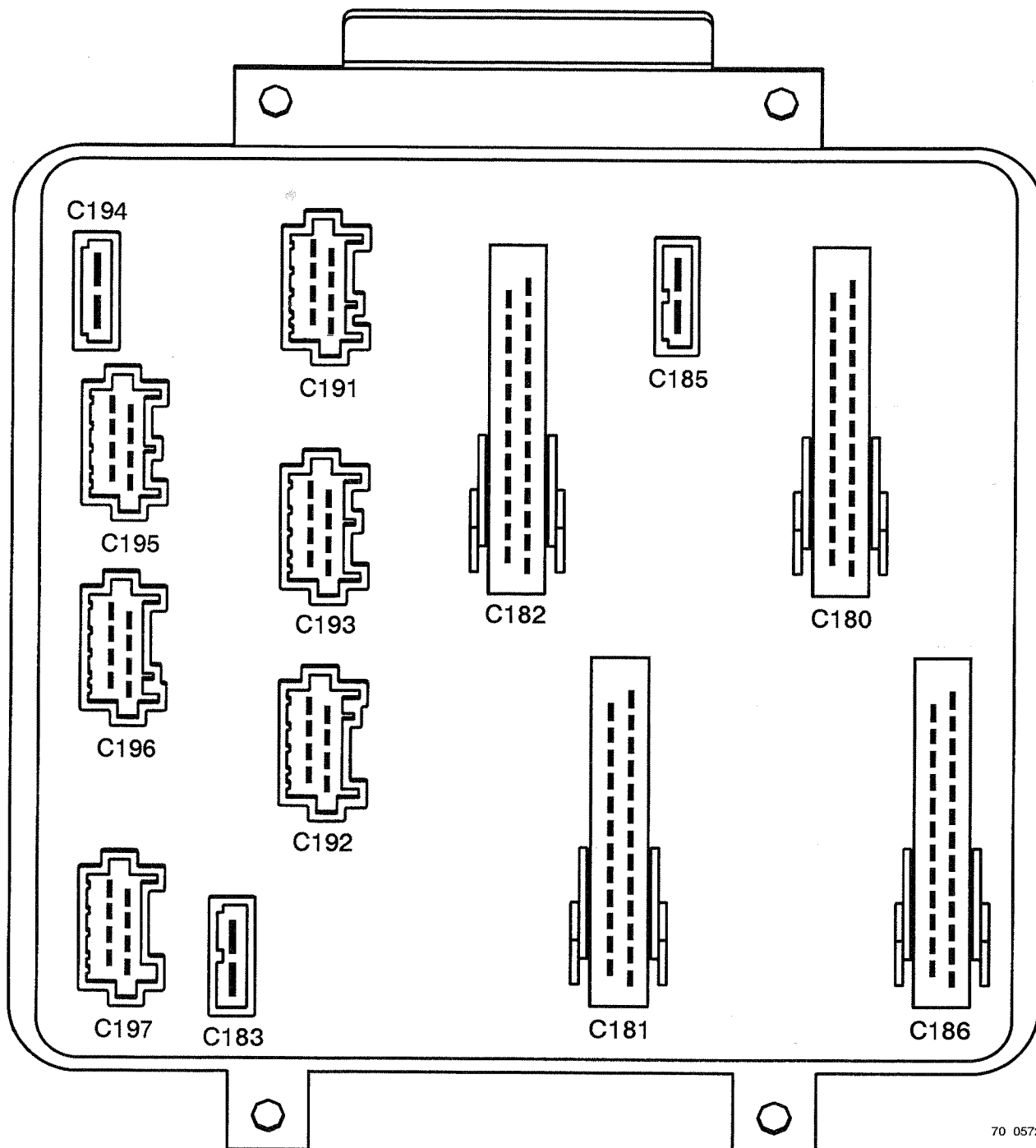
<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Earth .....	1	-	-
Available power supply (after master switch) .....	208	F21	15
Available power supply (lighting) .....	618	F43	10
Available power supply (lighting) .....	632	F5	10
Available power supply (lighting) .....	634	F4	10
Available power supply (equipment in working position "Alert" warning light) .....	651	F16	10
Available power supply (bodybuilder's equipment control) .....	8083	-	-
Available power supply (handrail deployed "Alert" warning light) .....	8084	-	-

**LOCATION 6**

<b>Assignment</b>	<b>Wire</b>	<b>Fuse</b>	<b>Amp.</b>
Power supply (before master switch) .....	201	F200	200

**CONNECTION UNIT**

**Fuses and relays box**

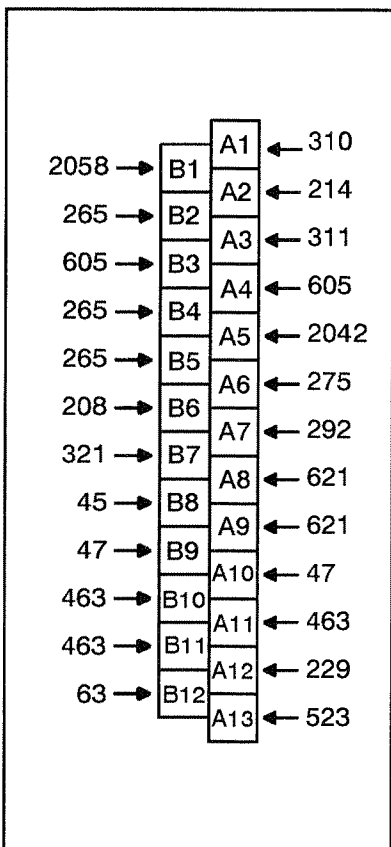


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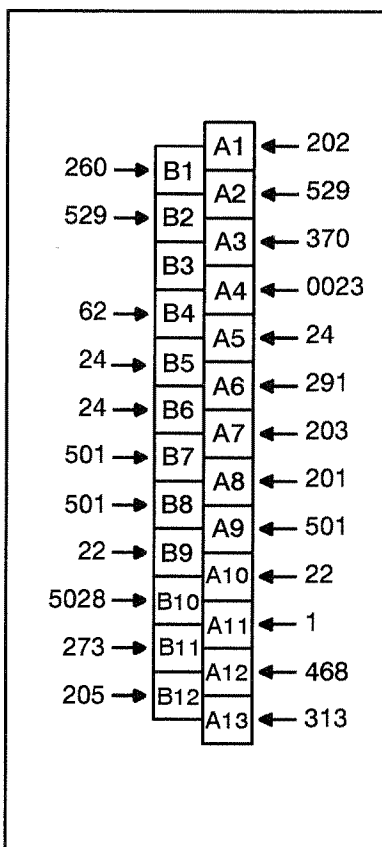
## Connection unit – Fuses and relays box

### Face A connectors

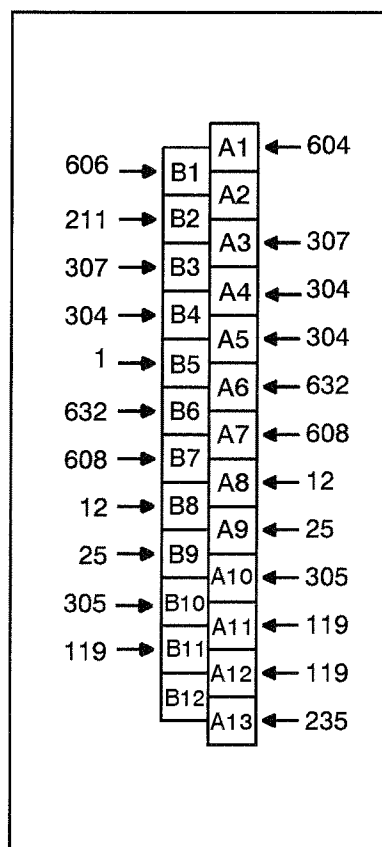
Number	Assignment	Colour	Number of ways
C180	Dashboard	Bc	25
C181	Dashboard	J	25
C182	Dashboard	R	25
C183	Dashboard	M	2
C185	+ 24V power supply	G	2
C186	Available	M	25
C191	Trailer socket	J	8
C192	Independent heating / Starting aid	V	8
C193	Step light / Defrosting rearview mirrors	R	8
C194	Trailer socket	N	2
C195	Reversing buzzer / Fast idling / Revolving beacons / Hourmeter	M	8
C196	Fog driving and long range driving lights / Headlamp washer	G	8
C197	Electronic air suspension	Bc	8



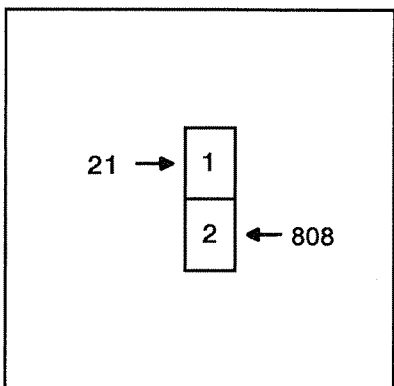
C180



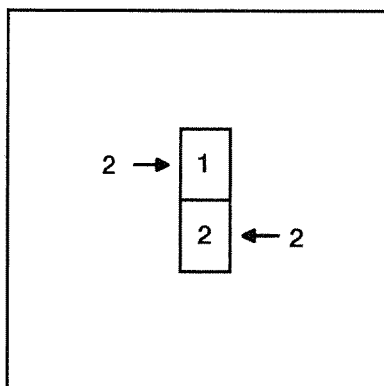
C181



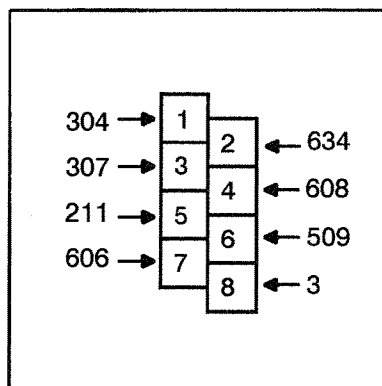
C182



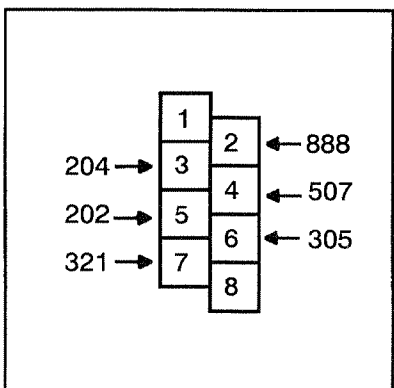
C183



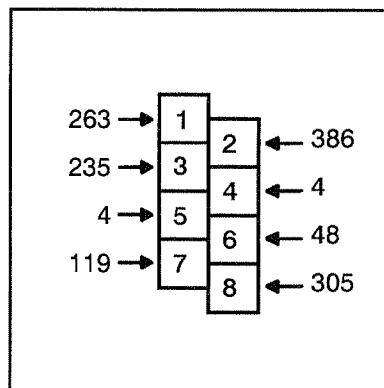
C185



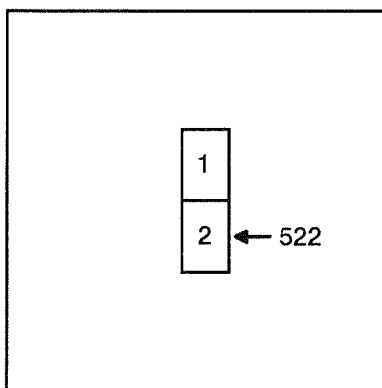
C191



C192



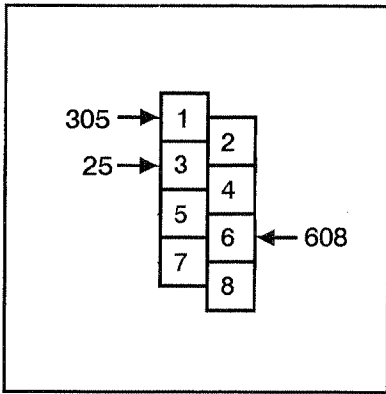
C193



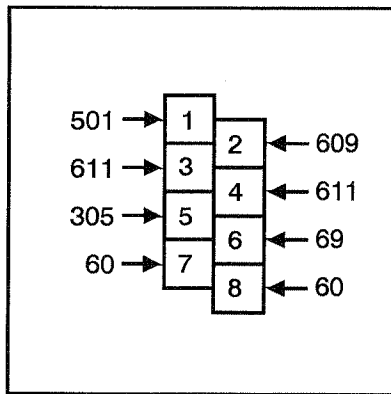
C194

70 0908

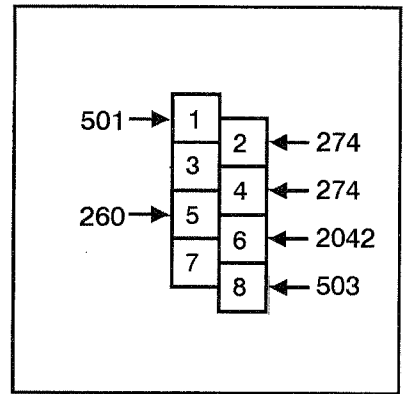




C195



C196



C197

70 0909



**WIRES – CONNECTORS LINKS**

**Fuses and relays box**

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
0023	0.6	A4	181
1	0.6	A11	181
2	7	1	185
2	7	2	185
3	1	B5	182
3	1	8	191
4	1	7	193
4	0.6	6	193
12	0.6	B8	182
12	0.6	A8	182
21	3	1	183
22	0.6	A10	181
22	1	B9	181
24	0.6	B5	181
24	1	B6	181
24	1	A5	181
25	0.6	B9	182
25	0.5	A9	182
25	0.6	3	195
45	0.6	B8	180
47	1	A10	180
47	1	B9	180
48	2	4	193
60	0.5	8	196
60	1	7	196
62	0.6	B4	181
63	0.6	B12	180
69	0.6	6	196
119	0.6	B11	182
119	0.6	A11	182
119	0.6	B11	182
119	0.6	7	193
201	2	A8	181
202	2	A1	181
202	0.6	5	192
203	0.6	A7	181
204	2	3	192
205	0.6	B12	181

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
208	1	B6	180
208	1	B6	180
211	0.6	B2	182
211	1	5	191
214	2	A2	180
229	1	A12	180
235	0.6	A13	182
235	0.6	3	193
260	1	B1	181
260	1	5	197
263	0.6	1	193
265	1	B4	180
265	1	B5	180
265	1	B2	180
265	0.6	B2	180
273	1	B11	181
274	2	2	197
274	0.6	4	197
275	0.6	A6	180
291	2	A6	181
292	2	A7	180
304	0.6	B4	182
304	0.6	A4	182
304	0.6	A5	182
304	0.6	1	191
305	0.6	A10	182
305	0.6	B10	182
305	0.6	6	192
305	0.6	8	193
305	0.6	1	195
305	0.6	5	196
307	1	B3	182
307	0.5	A3	182
307	1	3	191
310	0.6	A1	180
311	0.6	A3	180
313	0.6	A13	181
321	1	A10	180
321	1	7	192

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
321	0.6	B7	180
370	0.6	A3	181
386	0.6		193
463	1	A11	180
463	1	B10	180
463	1	B11	180
501	1	B7	181
501	1	B8	181
501	1	A9	181
501	1	1	196
503	0.6	8	197
507	1	4	192
509	1	6	191
522	5	2	194
523	1	A13	180
529	0.6	A2	181
529	0.6	B2	181
604	0.6	A1	182
605	0.5	A4	180
605	0.6	B3	180
606	2	B1	182
606	2	7	191
608	1	B7	182
608	0.6	A7	182
608	1	4	191
608	0.6	6	195
609	0.6	2	196
611	0.6	3	196
611	1	4	196
621	0.5	A8	180
621	1	A9	180
632	1	B6	182
632	1	B6	182
632	0.6	A6	182
634	1	2	191
808	3	2	183
888	0.6	2	192
2042	0.6	A5	180

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
2050	2	B1	182
5028	0.6	B10	181





**CONNECTION UNIT**

**Fuses and relays box**

**Internal diagram**

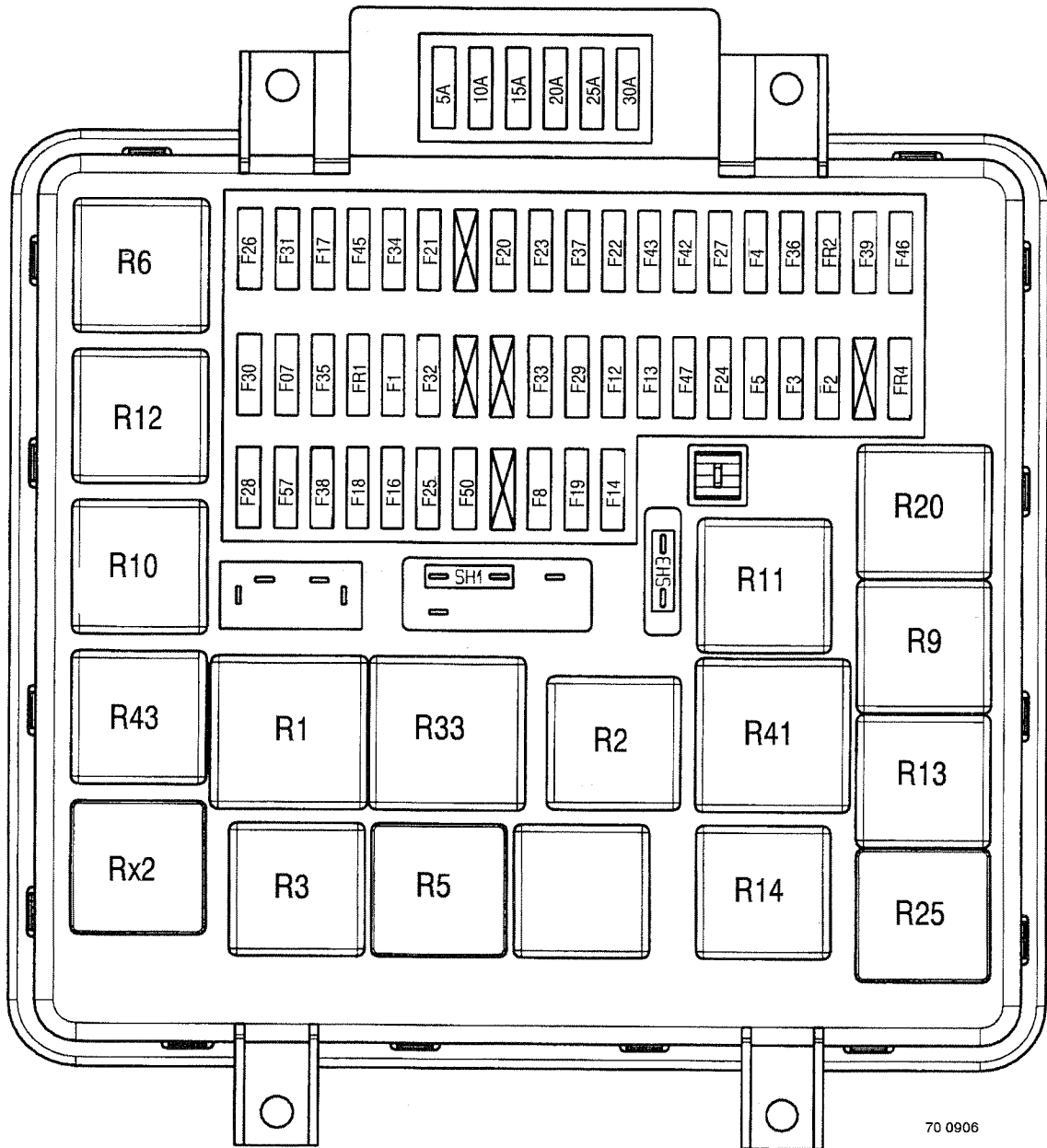
## Connection unit – Fuses and relays box

### Relays

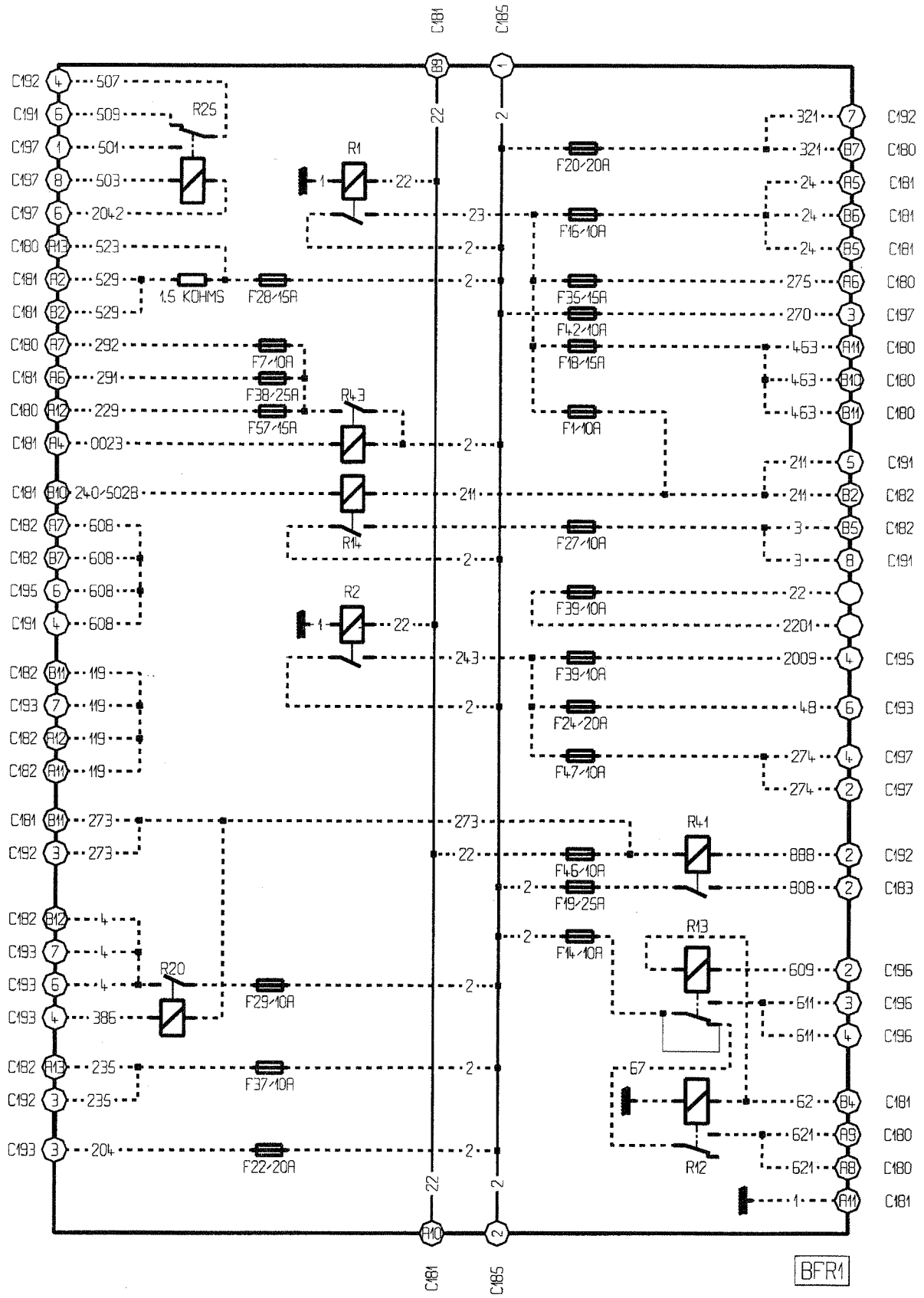
Item	Assignment	Plate
R1	2121 – Power after ignition relay	BFR1
R2	2121 – Power after ignition relay	BFR1
R3	5320 – Windscreen wiper disabling relay	BFR2
R5	3618 – Side/parking lights relay	BFR2
R6	4136 – Comfort accessories relay	BFR2
R9	6214 – Fog driving lights relay	BFR2
R10	3513 – Fog lights relay	BFR2
R11	6119 – Dipped beam headlights relay	BFR2
R12	6121 – Main beam headlights relay	BFR1
R13	6215 – Long range driving lights	BFR1
R14	3512 – Stop lights relay	BFR1
R20	4139 – Rearview mirrors and windscreen defrosting relay	BFR1
R25	5301 – Windscreen wiper time-delay	BFR1
R33	2212 – Starting relay	BFR2
R41	2422 – Fuel preheater relay	BFR1

### Fuses

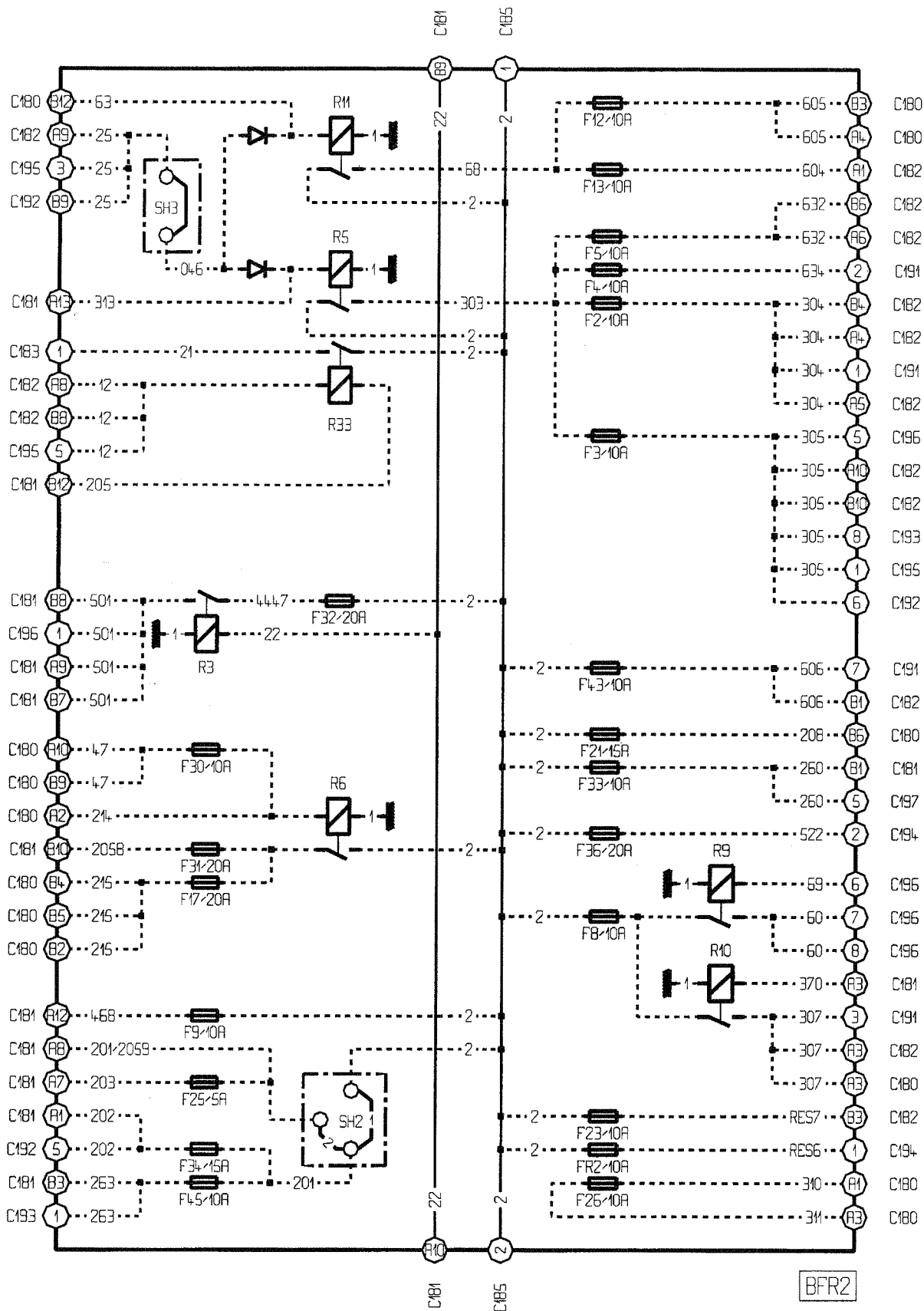
Item	Plate	Item	Plate	Item	Plate
F1	BFR1	F19	BFR1	F32	BFR2
F2	BFR2	F20	BFR1	F33	BFR2
F3	BFR2	F21	BFR2	F34	BFR2
F4	BFR2	F22	BFR1	F35	BFR1
F5	BFR2	F23	BFR2	F36	BFR2
F7	BFR1	F24	BFR1	F37	BFR1
F8	BFR2	F25	BFR2	F38	BFR1
F9	BFR2	F26	BFR2	F39	BFR1
F12	BFR2	F27	BFR1	F42	BFR1
F13	BFR2	F28	BFR1	F43	BFR2
F14	BFR1	F29	BFR1	F45	BFR2
F16	BFR1	F30	BFR2	F46	BFR1
F17	BFR2	F31	BFR2	F47	BFR1
F18	BFR1	-	-	F57	BFR1



70 0906



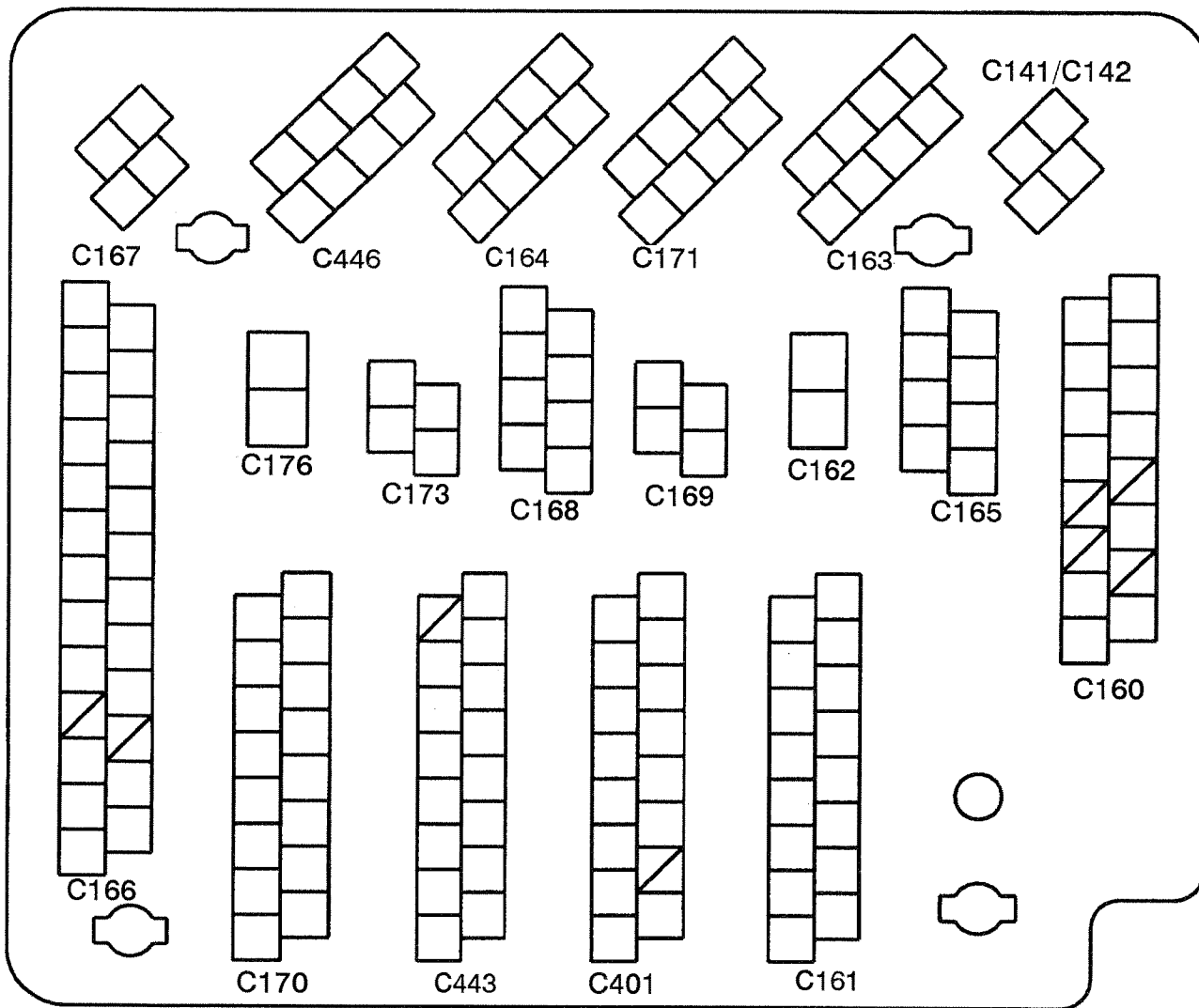
70 1070





**CONNECTION UNIT**

**Bulkhead grommet**



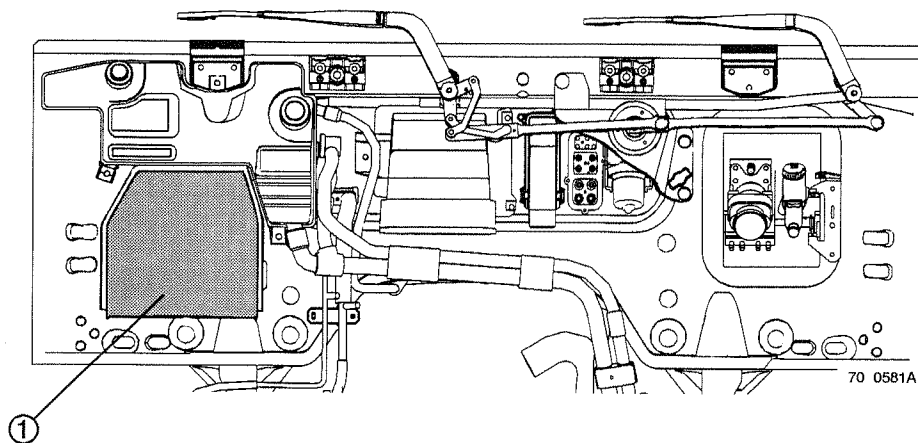
70 0910

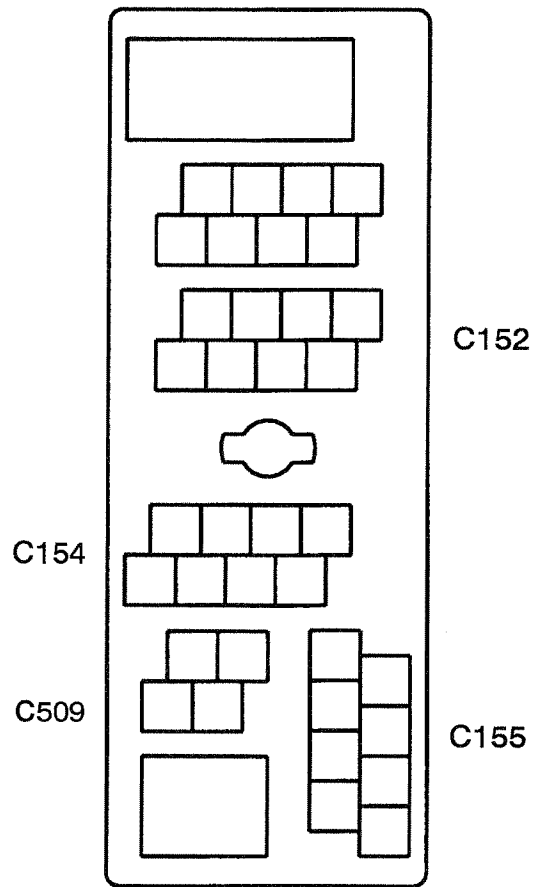


## Connection unit – Bulkhead grommet 1

### Connectors interface

Number	Assignment	Colour	Number of ways
C141	Available power supply "BOM"	N	4
C142	Available power supply "RTMDR"	N	4
C160	Front signalling / lighting	Bu	16
C161	LH front wiring harness	Bc	16
C162	Starter	G	2
C163	Power unit	G	8
C164	Available power supply	M	8
C165	Fuel-injection electronic management	Bc	8
C166	Rear wiring harness	J	25
C167	Windscreen wash pump	G	4
C168	Trailer socket	J	8
C169	Power unit	Bc	4
C170	RH front wiring harness	M	16
C171	Electric retarder relay box	Vi	8
C173	Trailer socket	J	8
C401	Trailer socket, 7-pin type ABS	N	2
C401	Automatic gearbox "ALLISON – BOM"	Ve	16
C443	Automatic gearbox "ALLISON – BOM"	R	16
C446	Drive axle link-up for 4X4 vehicle	R	8

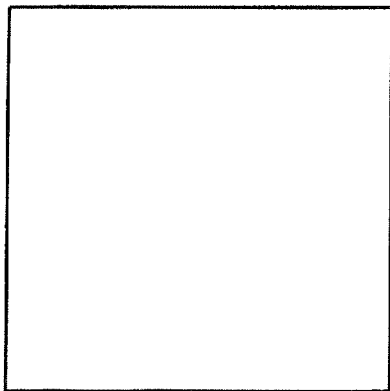




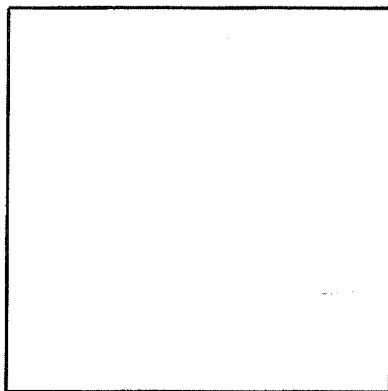
70 0911

**Connection unit – Bulkhead grommet 2****Connectors interface**

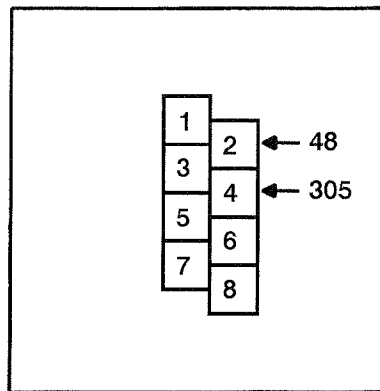
<b>Number</b>	<b>Assignment</b>	<b>Colour</b>	<b>Number of ways</b>
C152 .....	Doors equipment .....	Bc .....	8
C154 .....	Doors and front end equipment .....	R .....	8
C155 .....	Windscreen wiper motor .....	J .....	8
C509 .....	Reversing forbidden solenoid valves .....	Gr .....	4



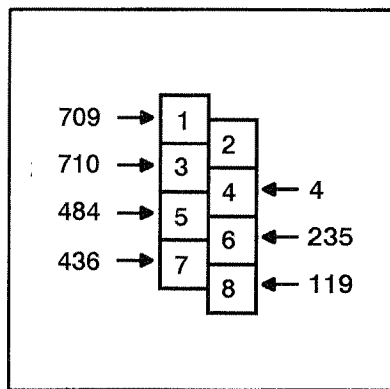
C141



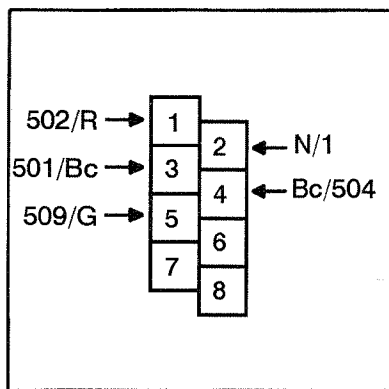
C142



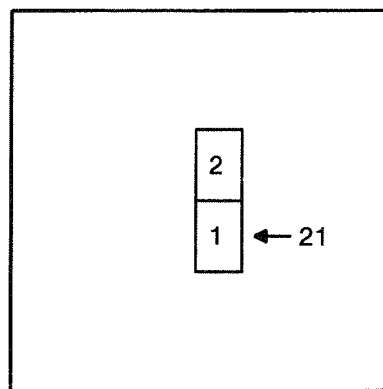
C152



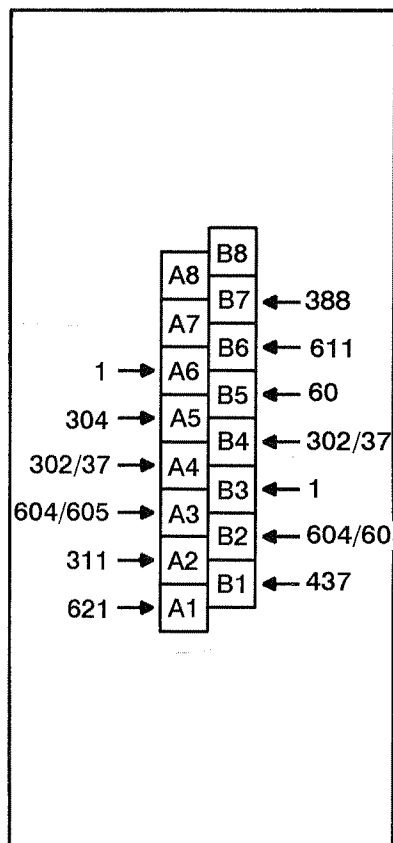
C154



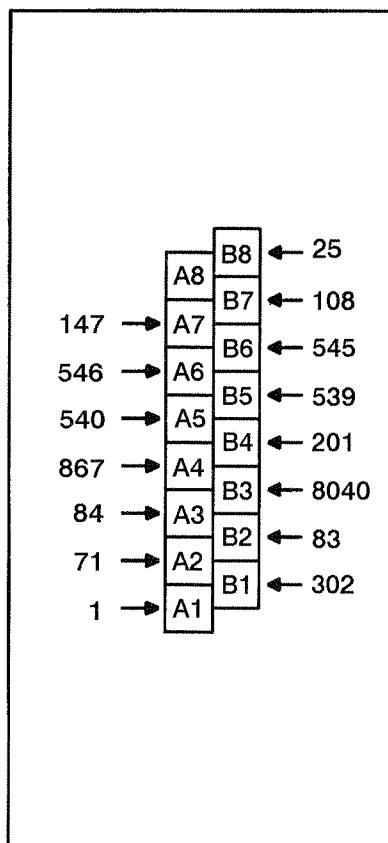
C155



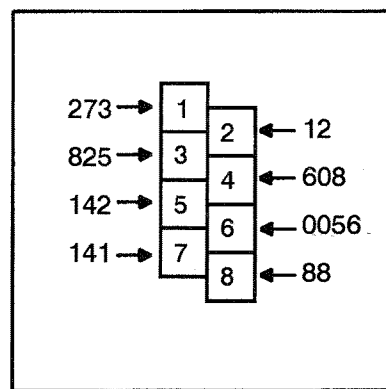
C162



C160

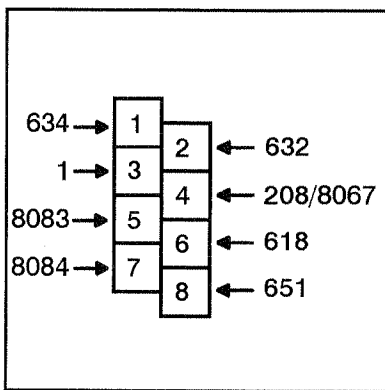


C161

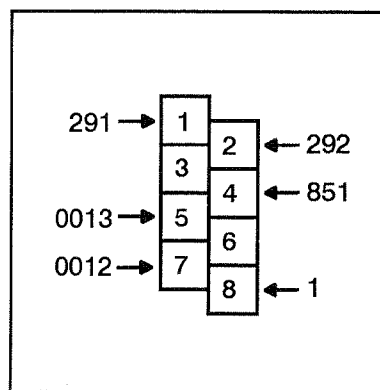


C163

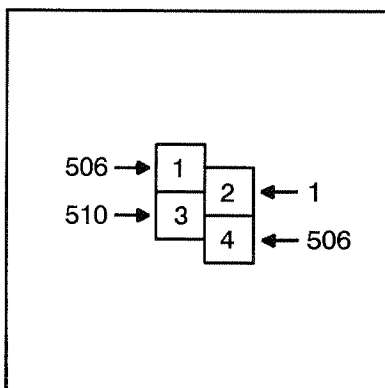
700912



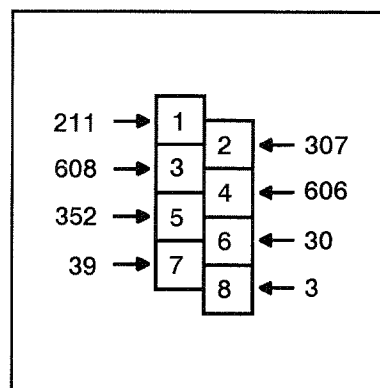
C164



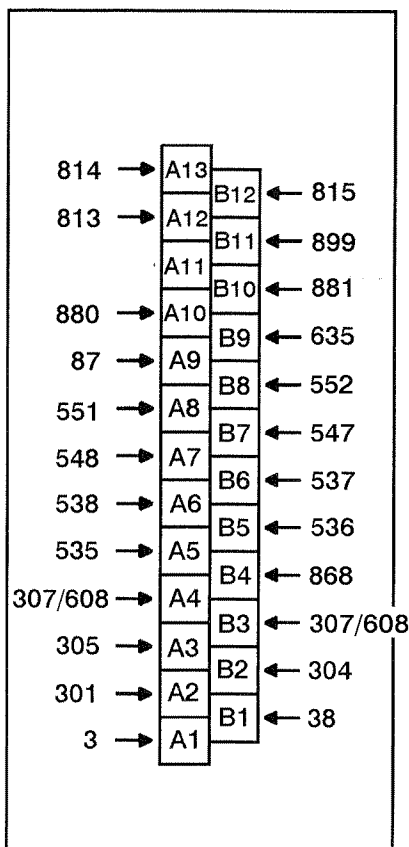
C165



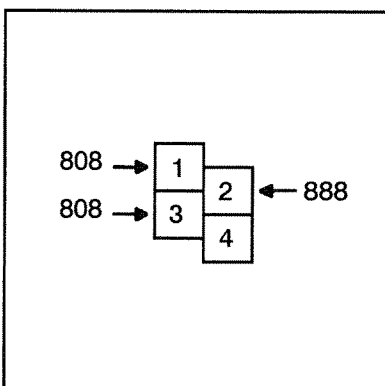
C167



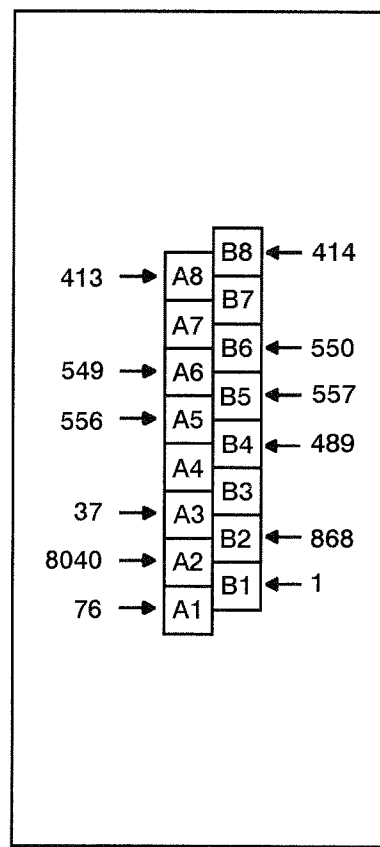
C168



C166

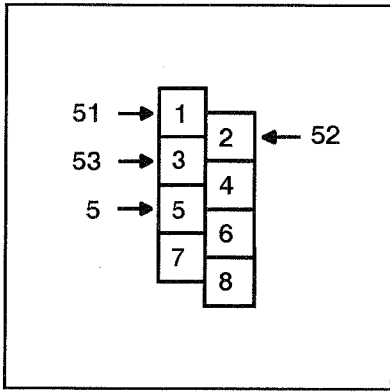


C169

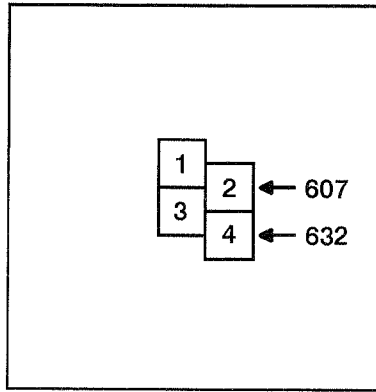


C170

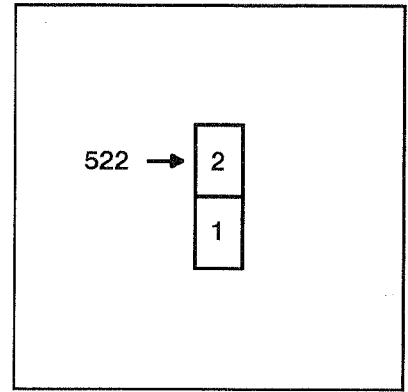
70 0914



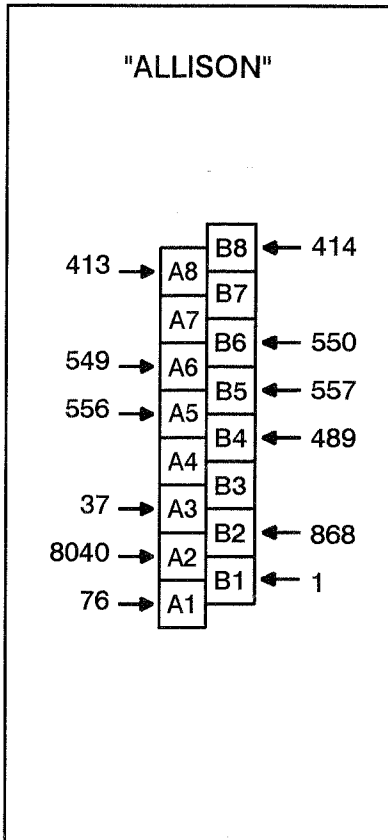
C171



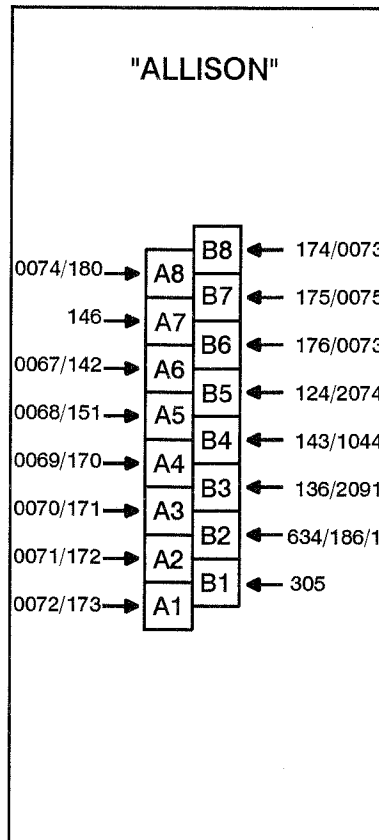
C173



C176



C443



C401

70 0915

**WIRES – CONNECTORS LINKS**

**Bulkhead grommet**

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
1	0.6	2	155
1	0.6	A6	160
1	2	B3	160
1	1	A1	161
1	0.6	8	165
1	0.6	3	164
1	0.6	A11	166
1	2	2	167
1	1	B1	170
1	1	B2	401
3	1	A1	166
3	1	8	168
4	1	4	154
5	1	5	171
12	0.6	2	163
21	3	1	162
25	0.6	B8	161
30	0.6	B5	160
30	0.6	6	168
37	0.6	A4	160
37	0.6	B4	160
37	0.6	A3	170
37	0.6	A3	443
38	0.6	B1	166
39	0.6	7	168
48	2	2	152
51	1	1	171
52	1	2	171
53	1	3	171
60	1	B5	160
71	0.5	A2	161
76	0.5	A1	170
76	0.5	A1	443
83	0.6	B2	161
84	0.5	A3	161
88	0.6	8	163
108	0.6	B7	161
119	0.6	8	154
124	1	B5	401
136	1	B3	401



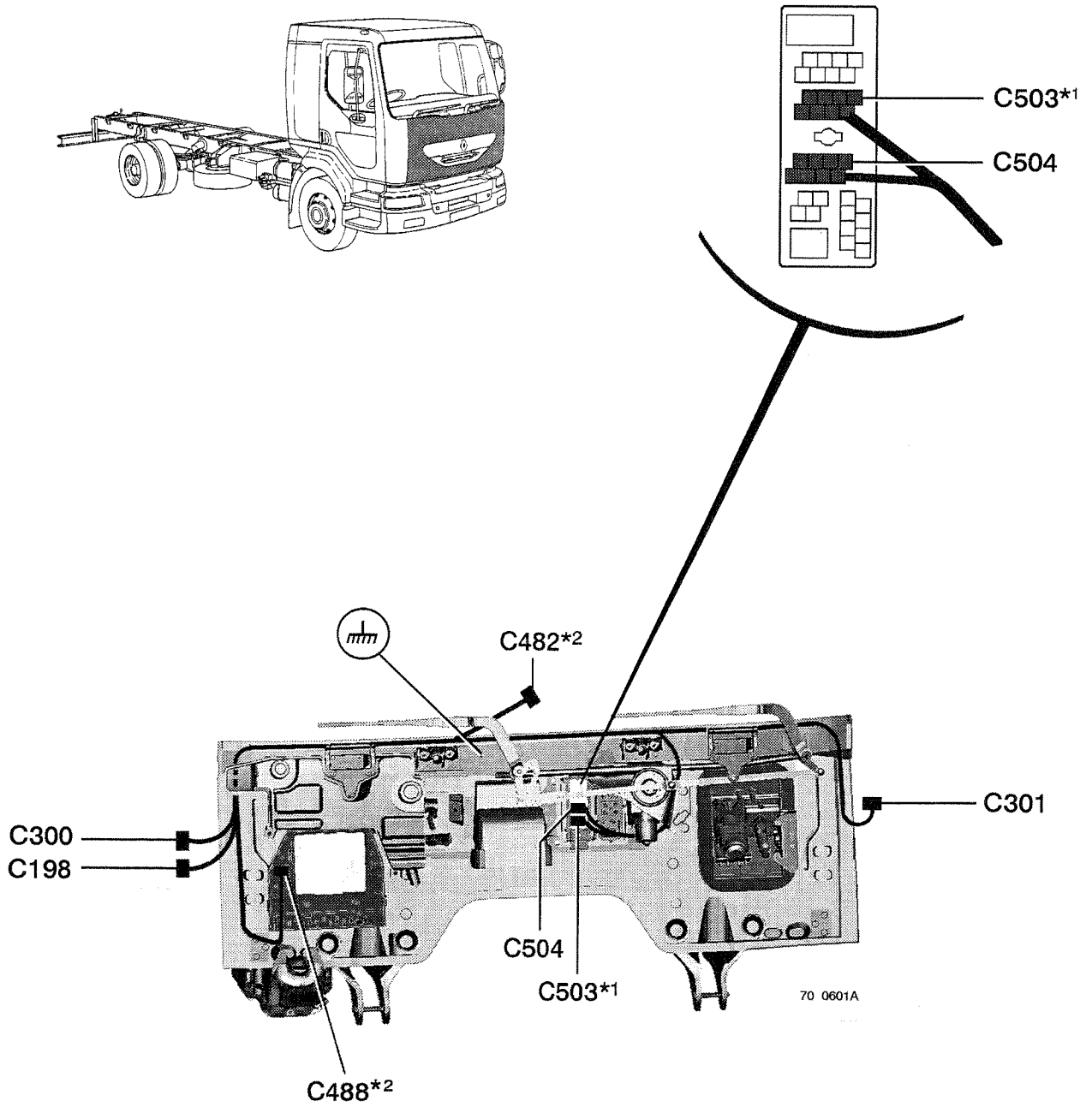
Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
141	0.6	7	163
142	0.6	5	163
142	1	A6	401
143	0.6	A2	401
143	0.6	B4	401
146	0.6	A7	401
147	0.6	A7	161
151	1	A5	401
170	1	A4	401
171	1	A3	401
172	1	A2	401
173	1	A1	401
174	1	B8	401
175	1	B7	401
176	1	B6	401
180	1	A8	401
186	1	B2	401
201	2	B4	161
208	1	4	164
211	1	1	168
213	1	4	142
235	2	6	154
273	1	A1	163
274	2	4	141
291	2	1	165
292	2	2	165
301	0.6	A2	166
302	0.6	A4	160
302	0.6	B4	160
302	0.6	B1	161
304	0.6	A5	160
304	0.6	B2	166
305	0.6	4	152
305	0.6	A3	166
305	0.6	B1	401
307	1	A4	166
307	1	B3	166
307	1	2	168
311	0.6	A2	160

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
352	0.5	5	168
388	0.6	B7	160
413	1	A8	170
413	1	A8	443
414	1	B8	170
414	1	B8	443
436	0.6	7	154
437	0.6	B1	160
484	0.6	5	154
489	1	B4	170
489	1	B4	443
501	1	3	155
502	1	1	155
504	1	4	155
506	1	1	167
506	1	4	167
509	1	5	155
510	1	3	167
522	5	2	176
535	0.6	A5	166
536	0.6	B5	166
537	0.6	B6	166
538	0.6	A6	166
539	0.6	B5	161
540	0.6	A5	161
545	0.6	B6	161
546	0.6	A6	161
547	0.6	B7	166
548	0.6	A7	166
549	0.6	A6	170
549	0.6	A6	443
550	0.6	B6	170
550	0.6	B6	443
551	0.6	A8	166
552	0.6	B8	166
556	0.6	A5	170
556	0.6	A5	443
557	0.6	B5	170
557	0.6	B5	443

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
604	0.6	A3	160
604	0.6	B2	160
605	0.6	A3	160
605	0.6	B2	160
606	2	4	168
607	0.5	2	173
608	1	4	163
608	1	A4	166
608	1	B3	166
608	1	3	168
611	1	B6	160
618	2	6	164
621	1	A1	160
632	1	2	164
634	1	4	173
634	1	B2	401
635	0.6	B9	166
651	0.5	8	164
709	0.6	1	154
710	0.6	3	154
808	3	2	169
808	3	3	169
813	0.6	A12	166
814	0.6	A13	166
815	0.6	B12	166
825	0.6	3	163
828	0.6	3	164
851	0.6	4	165
868	0.6	B4	166
868	0.6	B2	170
880	0.6	A10	166
881	0.6	B10	166
888	0.6	2	169
899	0.6	B11	166
1044	0.6	B4	401
2074	0.6	B5	401
2091	0.6	B3	401
5026	0.6	2	141

Wire N°	Wire section (mm <sup>2</sup> )	Connectors	
		Terminal	Number
5026	0.6	1	221
5027	0.6	1	141
8040	0.6	B3	401
8040	0.6	A2	401
8067	1	4	164
0067	0.6	A6	401
0068	0.6	A5	401
0069	0.6	A4	401
0070	0.6	A3	401
0071	0.6	A2	401
0072	0.6	A1	401
0073	0.6	B8	401
0074	0.6	A8	401
0075	0.6	B7	401
0056	0.6	6	163
0012	0.5	7	165
0013	0.5	5	165

**FRONT END WIRING HARNESSES**



70 0602

**Front end wiring harnesses**

## Front end wiring harnesses

### Connectors

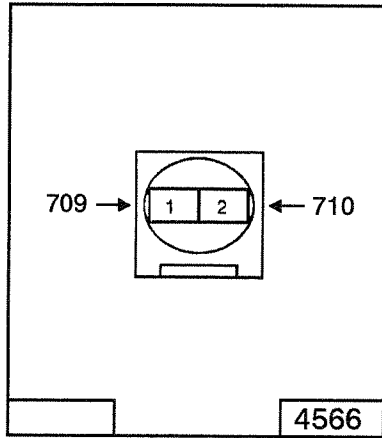
### Assignments

C198	.....	4566	– External temperature sensor
C482 <sup>*1</sup>	.....	4137	– Windscreen defrosting resistor
C488 <sup>*1</sup>	.....	4138	– Windscreen defrosting time–delay relay

### Links between harnesses

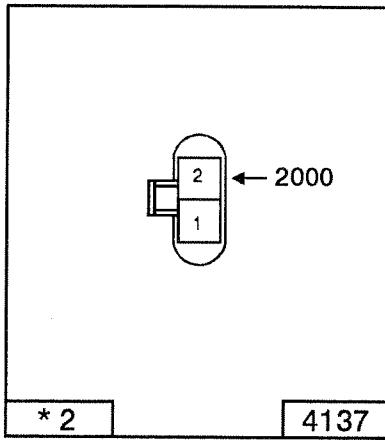
C300	→	C249	(Gb7)
C301	→	C250	(Gb3)
C503	→	C152	(F24)
C504	→	C154	(F24)

**Option 1** (\*1) includes : C482\*1, C488\*1, C503\*1



C198

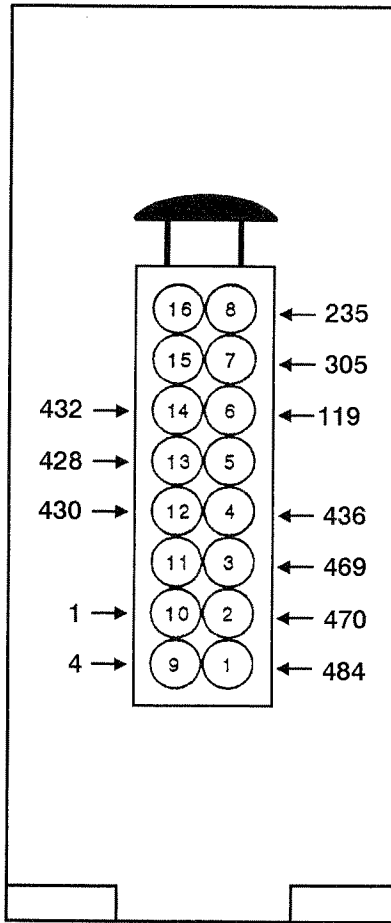
4566



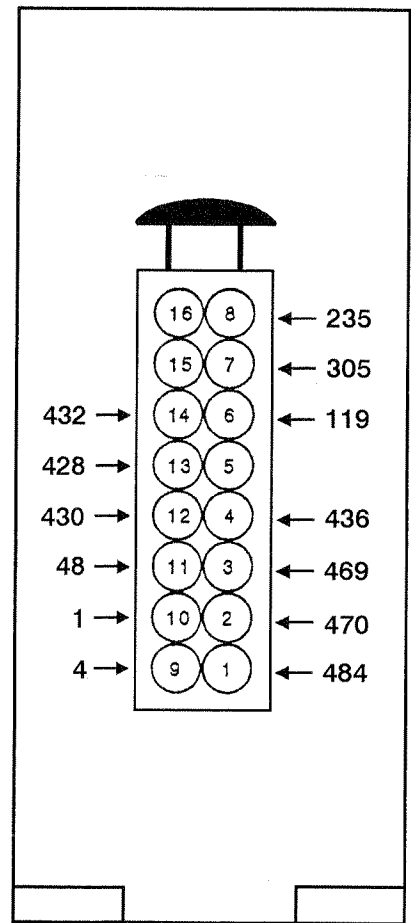
C482

\* 2

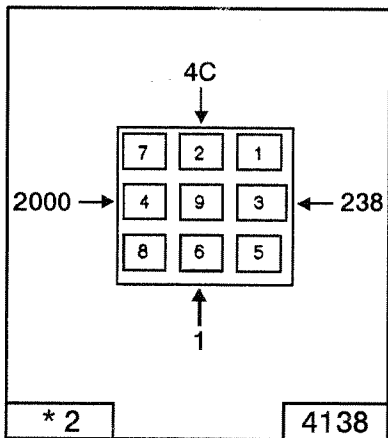
4137



C300



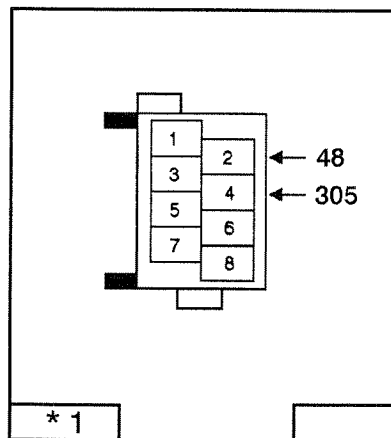
C301



C488

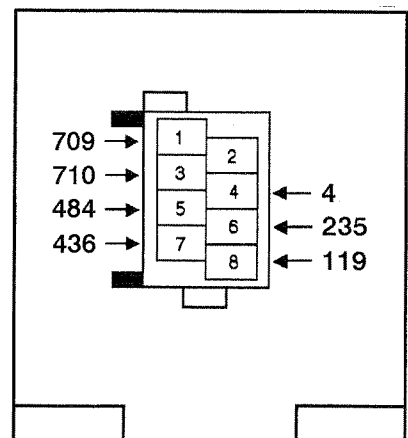
\* 2

4138



C503

\* 1

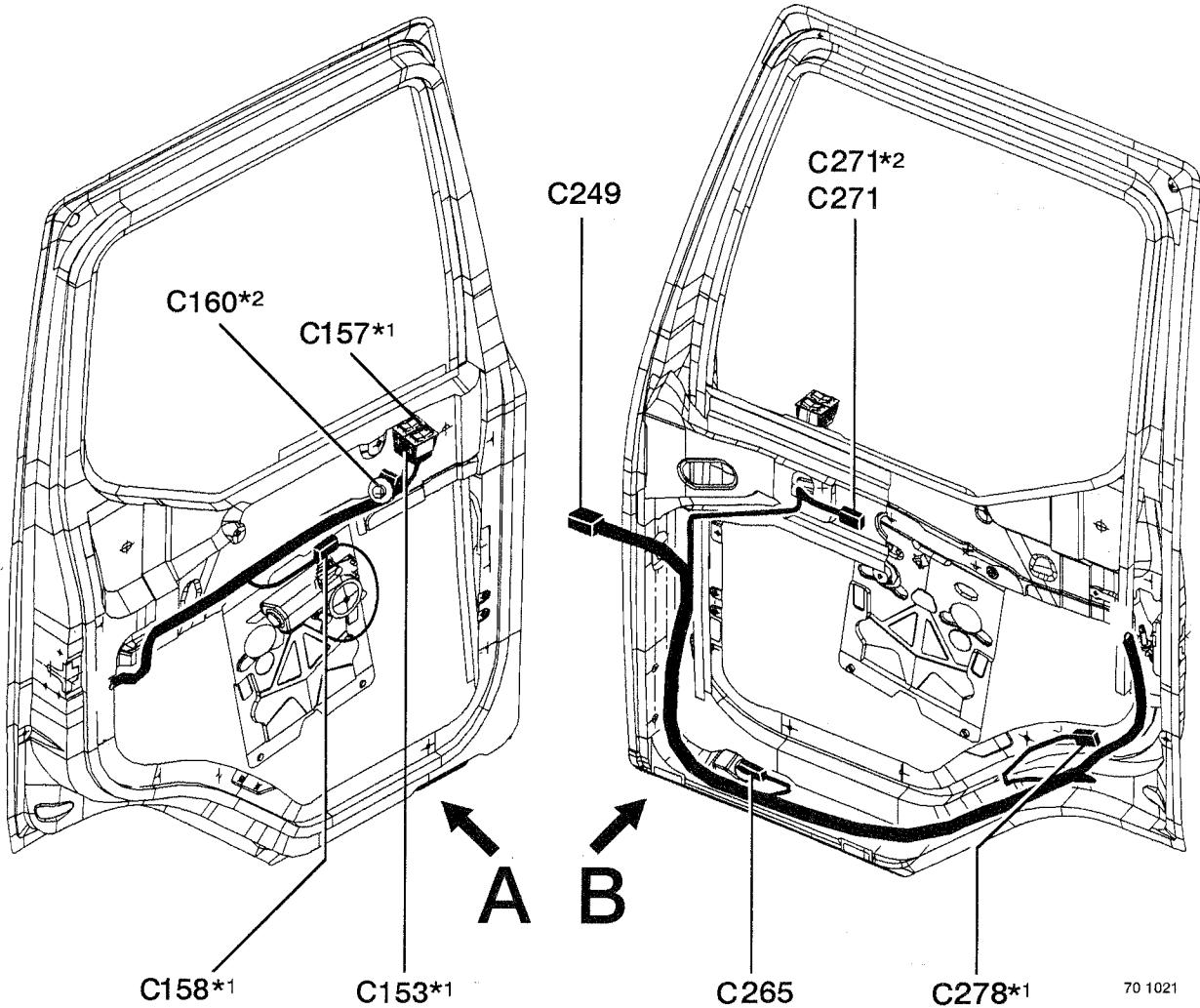
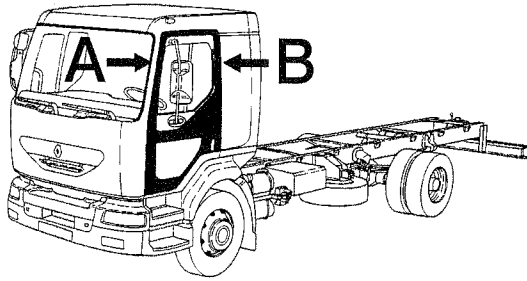


C504

70 0930



**DOORS WIRING HARNESSES**



70 1021

**Driver's door wiring harnesses**

## Driver's door wiring harnesses

### Connectors

### Assignments

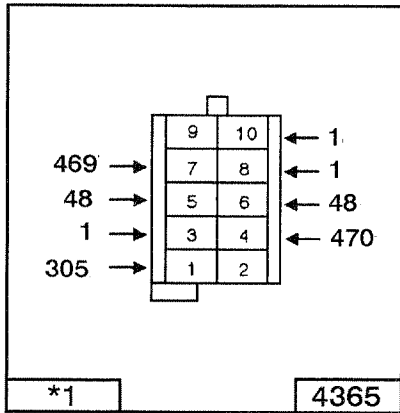
C157	.....	4365	– Passenger's window winder control (driver's side)
C278	.....	4048	– Driver's side electric door striker
C158	.....	4311	– Driver's window winder motor
C153	.....	4361	– Driver's window winder control
C160	.....	4161	– External rearview mirrors swivelling control
C265	.....	4650	– Driver's step lighting
C271	.....	4122	– LH swivelling defrosting rearview mirror
C271	.....	4122	– LH swivelling defrosting rearview mirror

### Links between harnesses

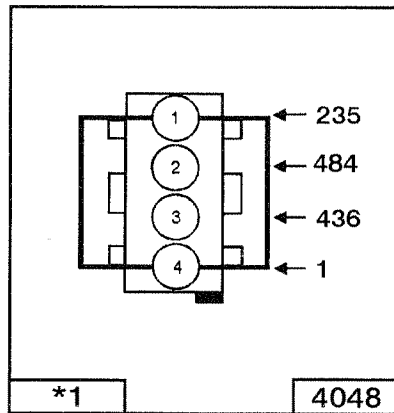
C259 → C301 (Ga4)

**Option 1** (\*1) includes : C157\*1,C153\*1,C158\*1,C278\*1

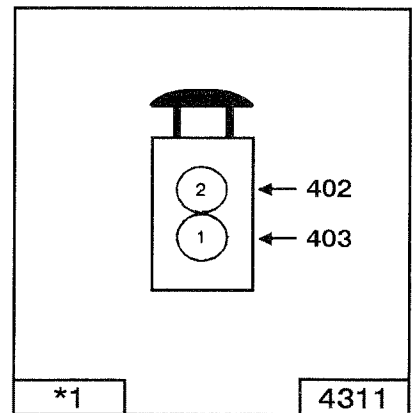
**Option 2** (\*2) includes : C171\*2,C160\*2



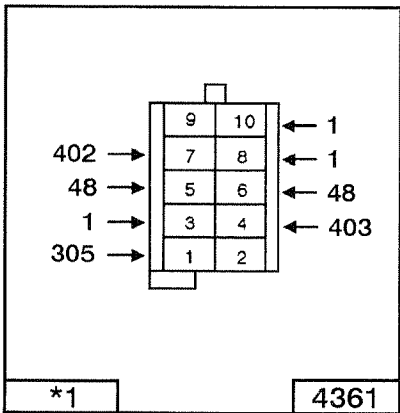
C157



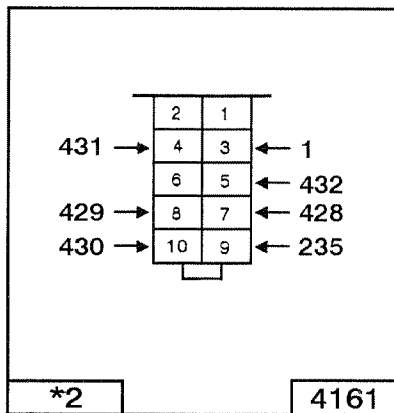
C278



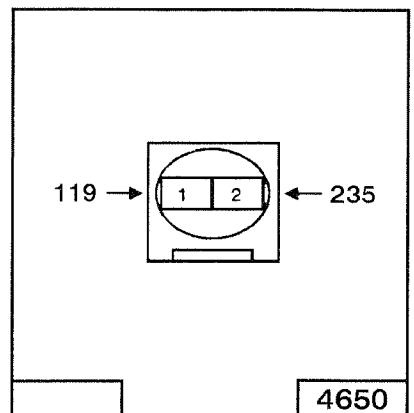
C158



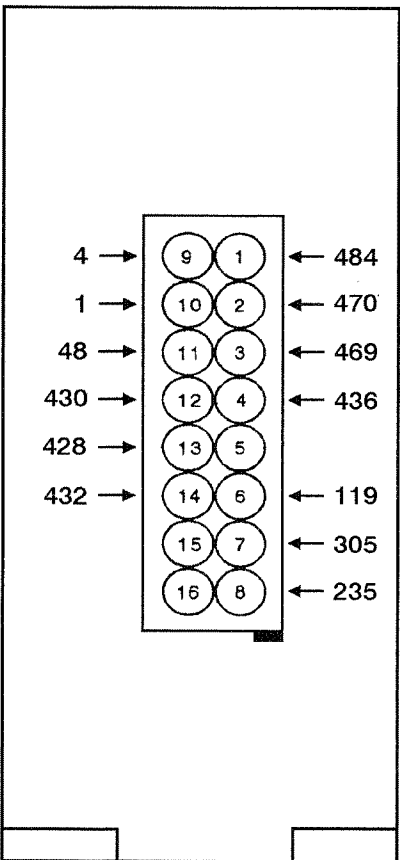
C153



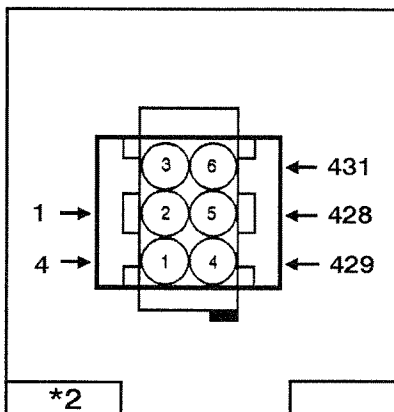
C160



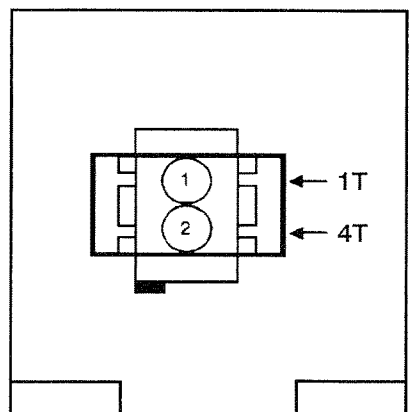
C265



C249



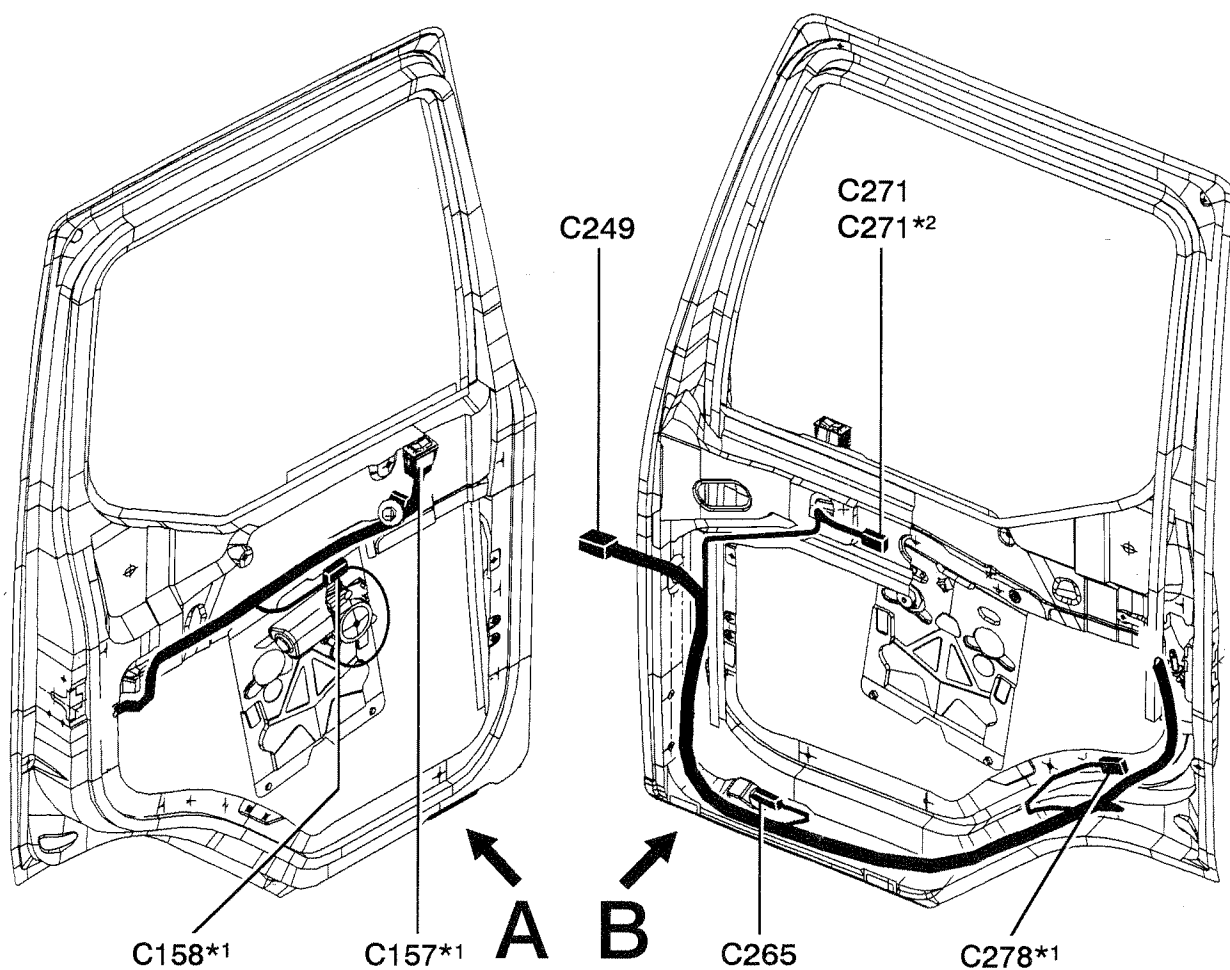
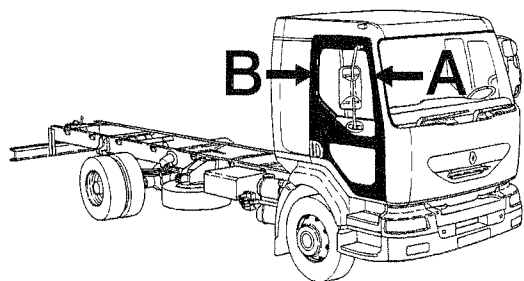
C271



C271

70 0932





70 0603A

Passenger's door wiring harnesses

## Passenger's door wiring harnesses

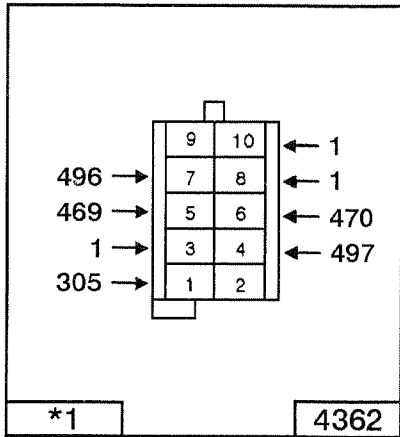
Connectors	Assignments
C157 .....	4362 – Passenger's window winder control
C158 .....	4312 – Passenger's window winder motor
C265 .....	4651 – Passenger's step lighting
C271 .....	4123 – RH swivelling defrosting rearview mirror
C271 .....	4123 – RH swivelling defrosting rearview mirror
C278 .....	4047 – Passenger's side electric door striker

### Links between harnesses

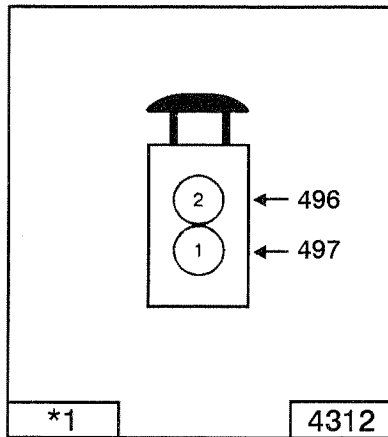
C249 → C300 (Ga3)

**Option 1** (\*1) includes : C157\*1,C158\*1,C278\*1

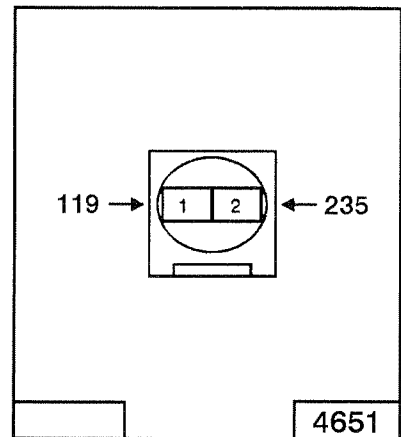
**Option 2** (\*2) includes : C271\*2



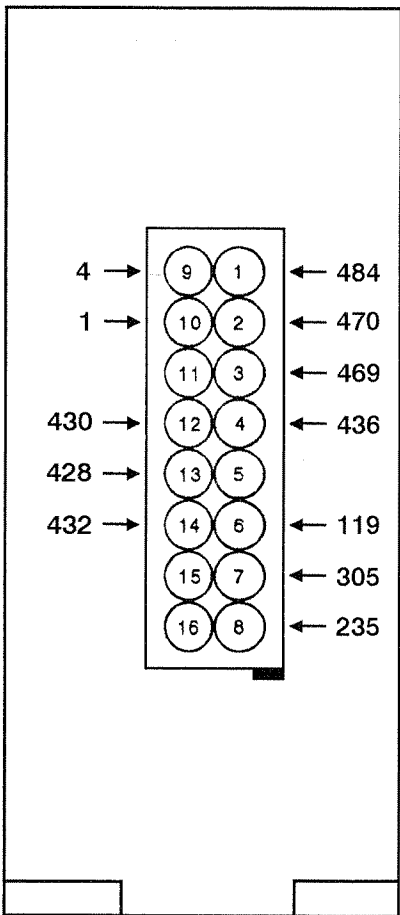
C157



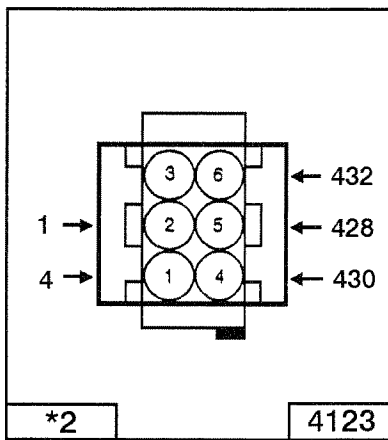
C158



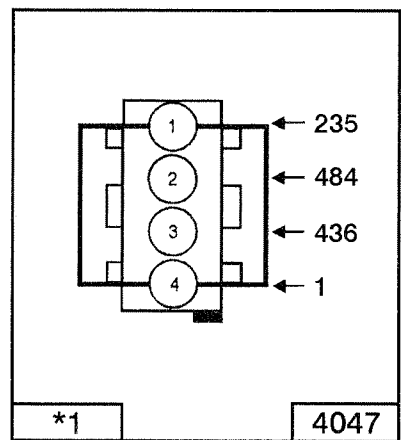
C265



C249

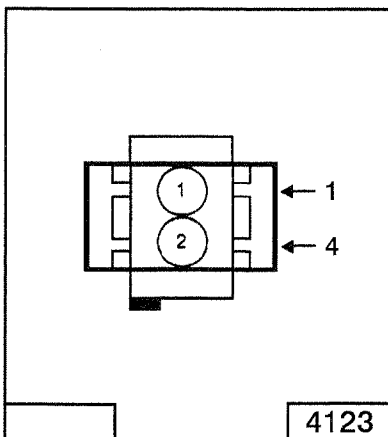


C271



C278

70 0931

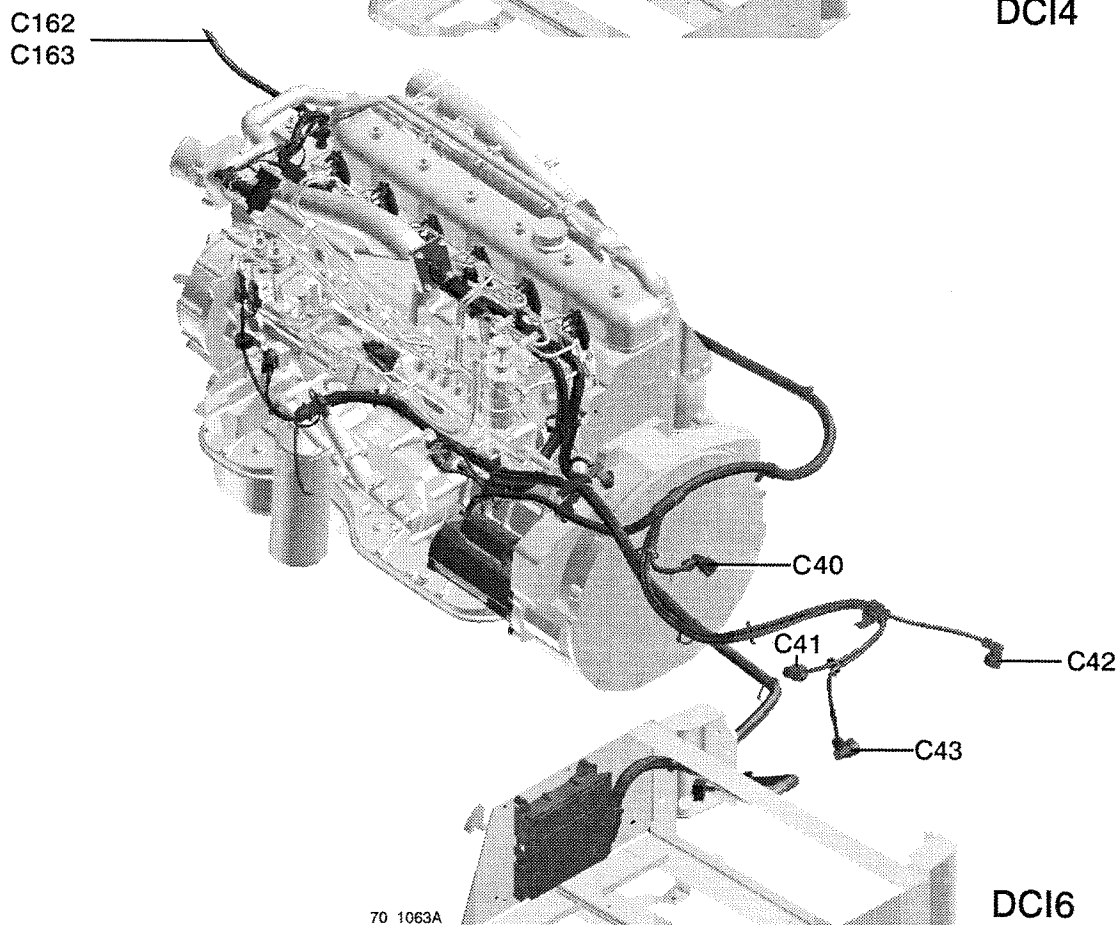
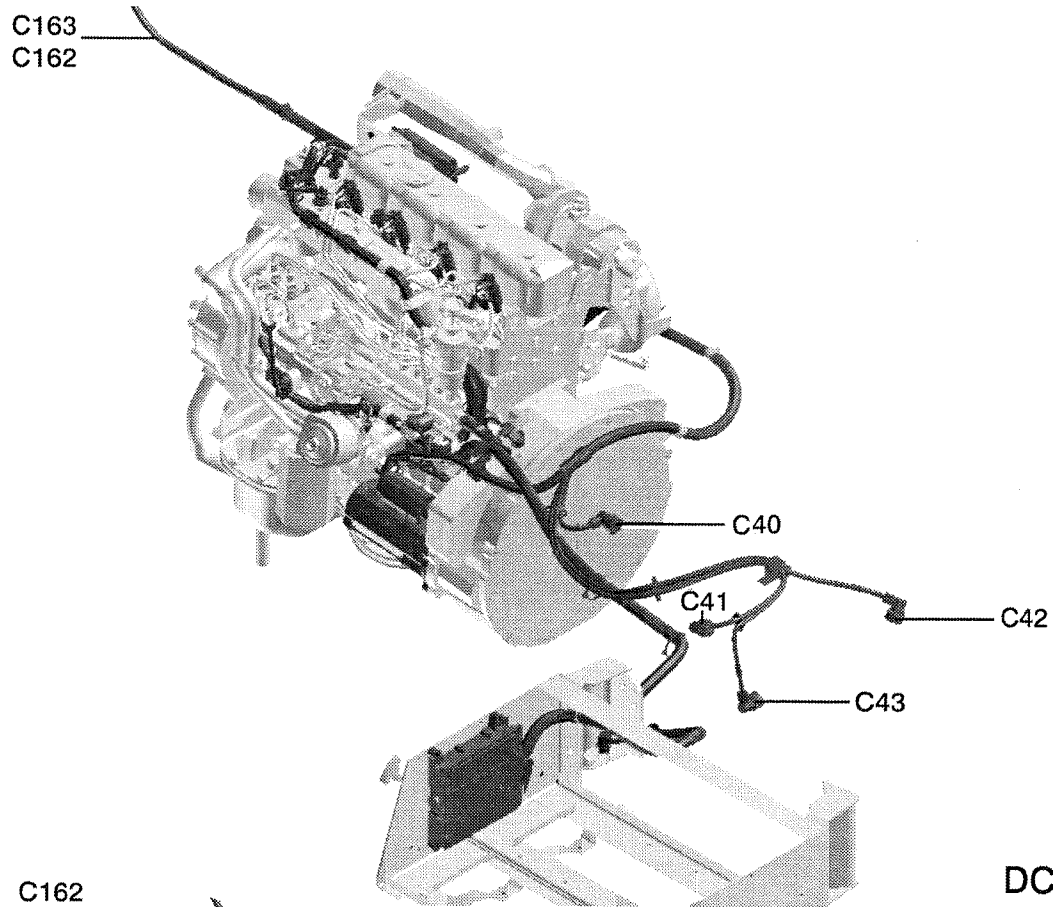


C271

4123

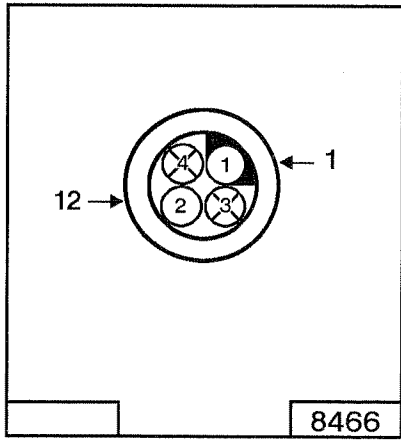


**ENGINE WIRING HARNESSES**



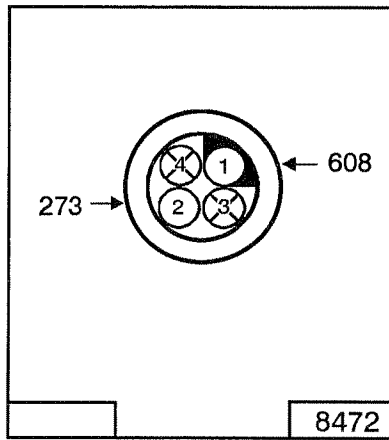
**DC4 / DCI6 wiring harnesses****Engine wiring harnesses**

<b>Connectors</b>	<b>Assignments</b>
C40 .....	8466 – Neutral switch contact sensor
C41 .....	8472 – Reverse gear switch contact sensor
C42 .....	8300 – Power take-off switch contact sensor
C43 .....	8461 – Vehicle speed sensor



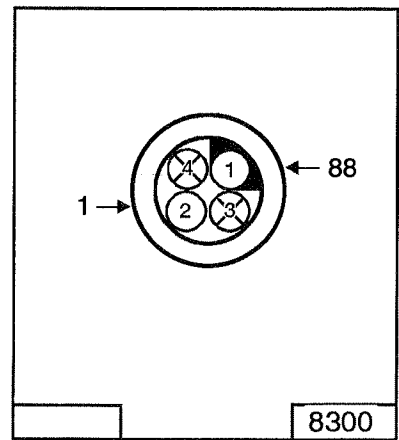
C40

8466



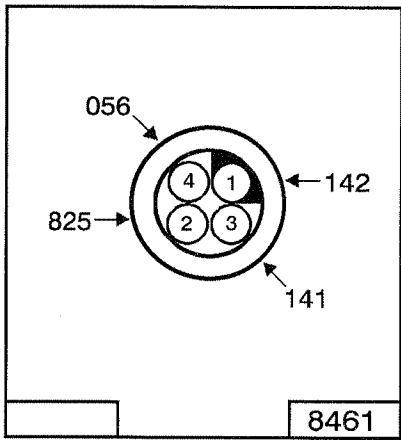
C41

8472



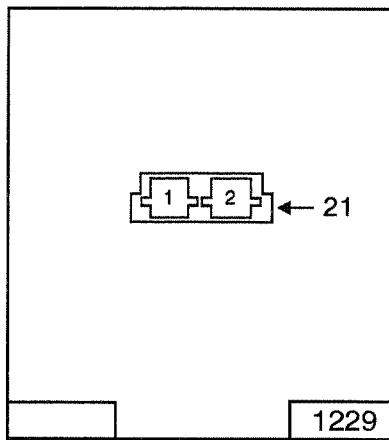
C42

8300



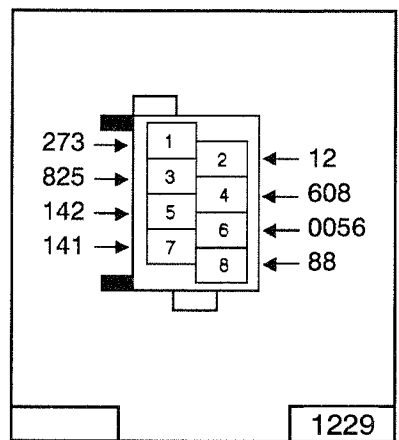
C43

8461



C162

1229

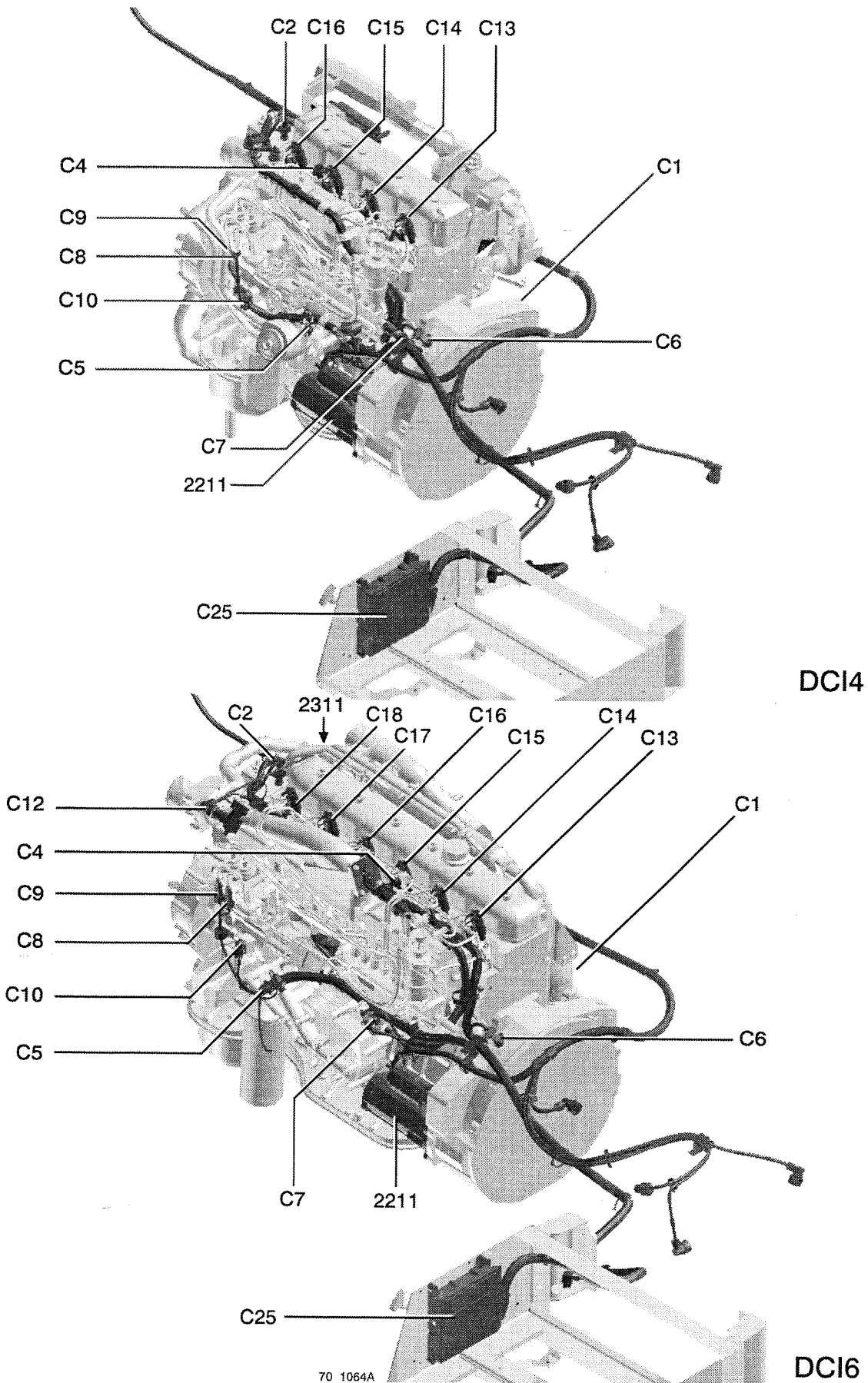


C163

1229

70 0917

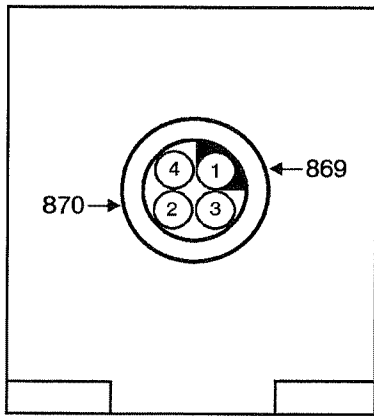
**FUEL-INJECTION ELECTRONIC MANAGEMENT WIRING HARNESSES**



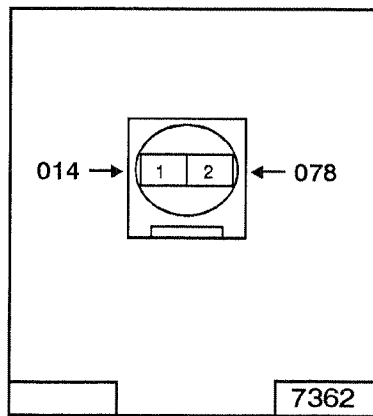
70 1064A

**DC4 / DCI6 wiring harnesses****Fuel-injection wiring harnesses**

<b>Connectors</b>	<b>Assignments</b>
C2	7362 – Coolant temperature sensor
C5	7368 – Oil pressure sensor
C12	8150 – Exhaust brake electrovalve
C1	8275 – Engine oil level sensor
C4	9200 – Boost air temperature and pressure sensor
C25	9202 – Engine master ECU “EECU”
C7	9208 – Fuel high pressure sensor
C8	9212 – Cylinder solenoid valve high pressure pump
C9	9213 – Cylinder solenoid valve high pressure pump
C14	9220 – Injection control solenoid valve N° 1
C15	9221 – Injection control solenoid valve N° 2
C16	9222 – Injection control solenoid valve N° 3
C16	9223 – Injection control solenoid valve N° 4
C18	9224 – Injection control solenoid valve N° 5
C19	9225 – Injection control solenoid valve N° 6
C6	9228 – Engine flywheel speed sensor
C10	9230 – Camshaft speed sensor

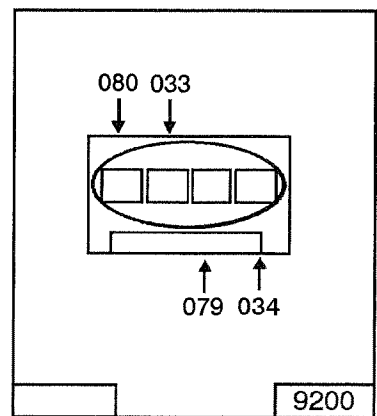


C1



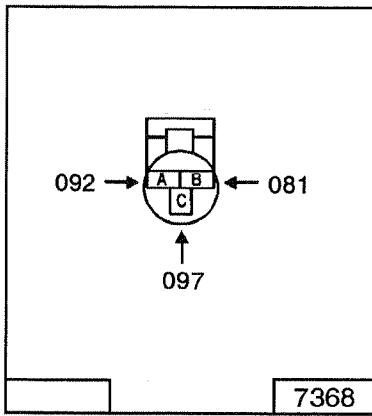
C2

7362



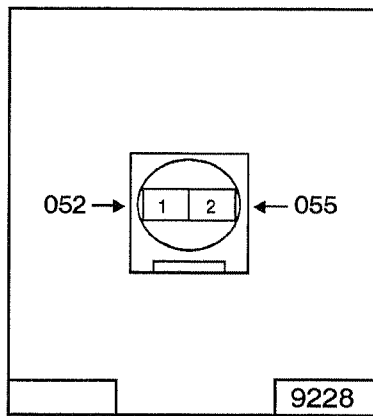
C4

9200



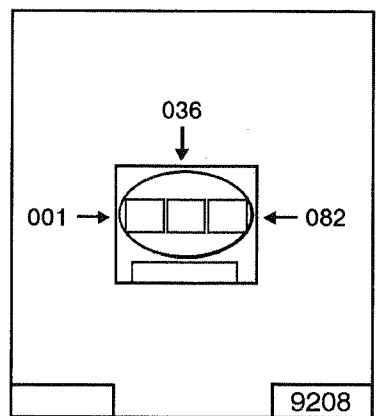
C5

7368



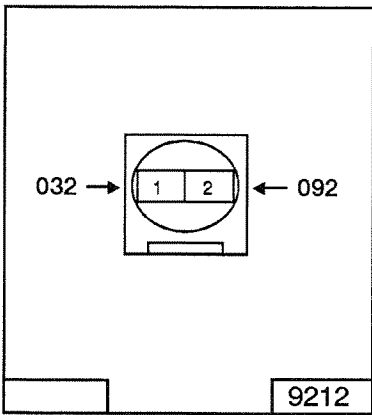
C6

9228



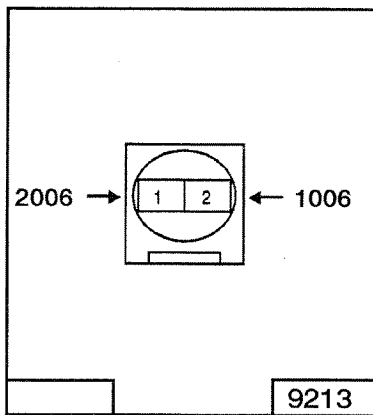
C7

9208



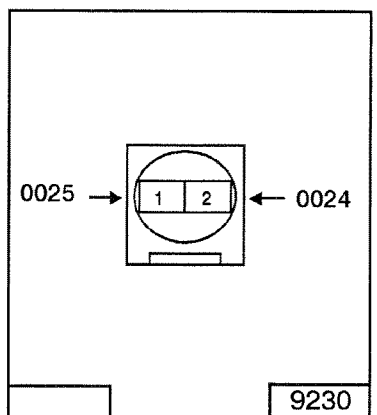
C8

9212



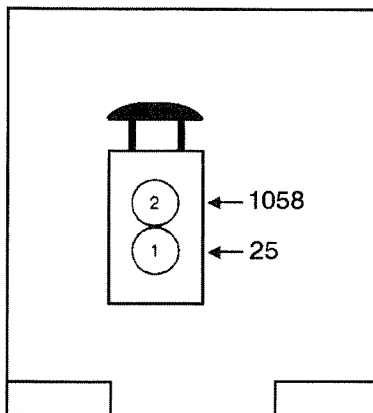
C9

9213

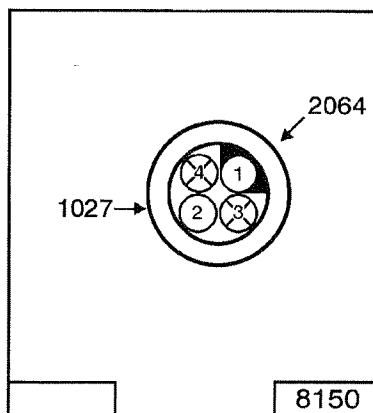


C10

70 0918



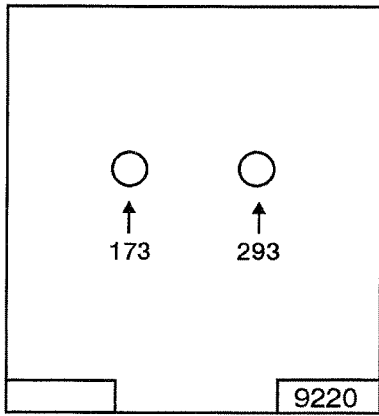
C11



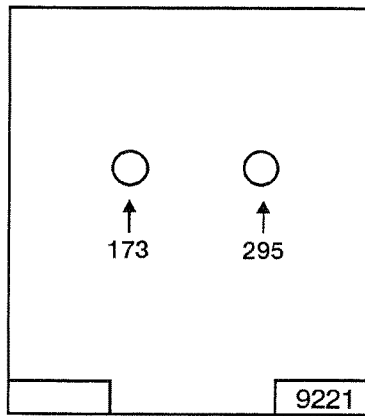
C12

8150

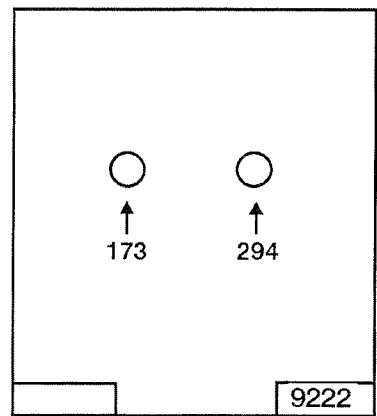




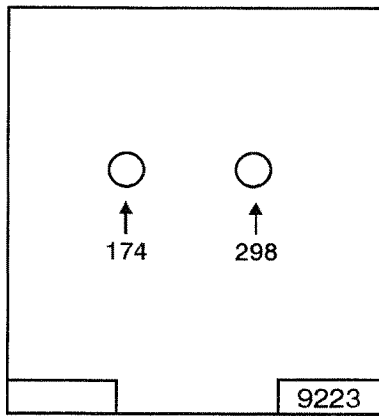
C13



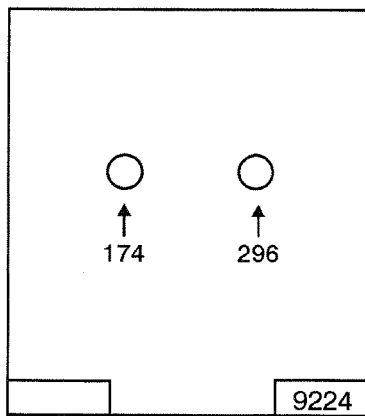
C14



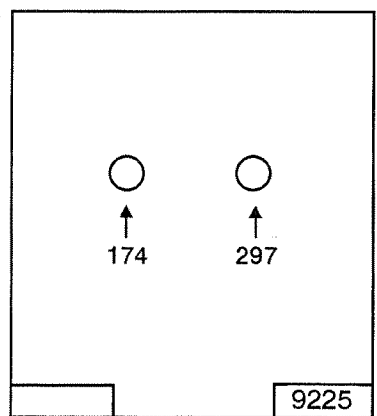
C15



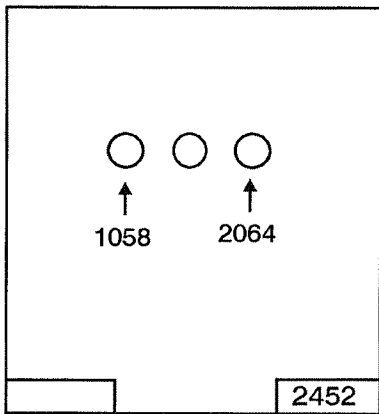
C16



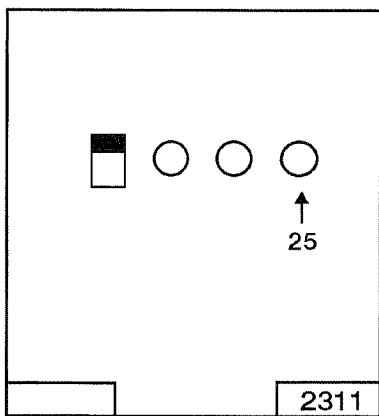
C17



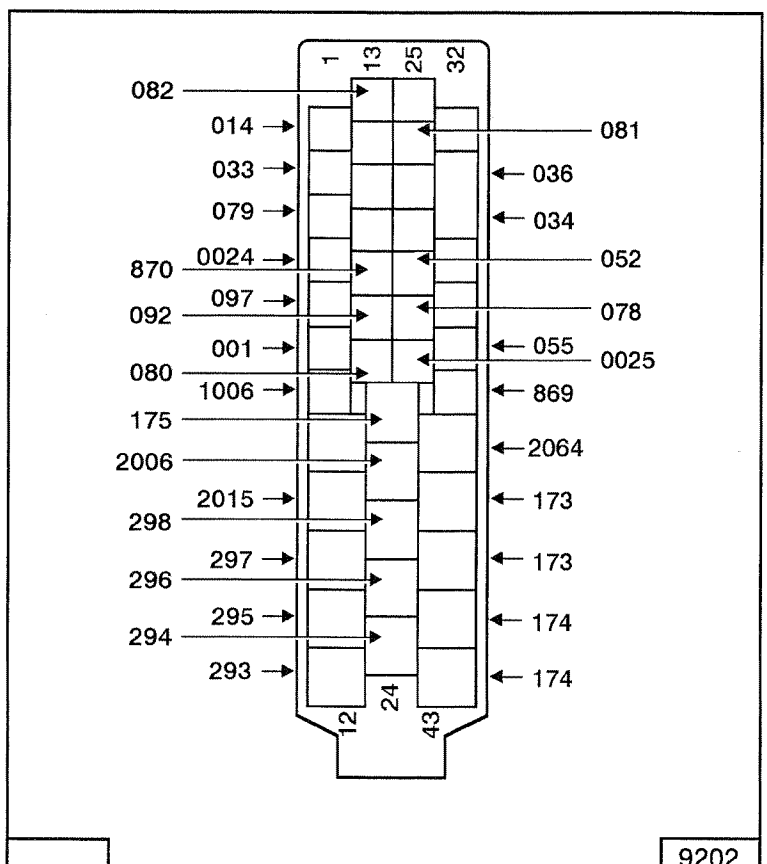
C18



2452



2311



9202

C25

70 0916