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# Repair Manual

## *911 Carrera* (993)

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## Preface

### Structure

The "Technical Literature" for the "911 Carrera (993)" model is basically structured as before, i.e. the structure follows the familiar repair groups.

A new feature is that the structure includes the main groups **0 to 9** and the main group **D**.

Main groups:	0	Complete vehicle – General
	1	Engine
	2	Fuel, exhaust, engine electrical system
	3	Transmission
	4	Chassis
	5	Body
	6	Body equipment, outside
	7	Body equipment, interior
	8	Air conditioning
	9	Electrical system
	D	Diagnosis

### Layout

The layout in the below items remains unchanged throughout the repair manual

1. Table of tightening torques
2. Special tools required
3. Exploded views
4. Legends for the exploded views
5. Assembly notes / use of special tools

As a new feature, however, the former item 6 (Repair group diagnosis) is no longer filed in the volume corresponding to the respective repair group. The **Diagnosis test plans / diagnosis procedures** have been combined in a **separate Diagnosis volume** broken down according to the main groups 0 to 9.

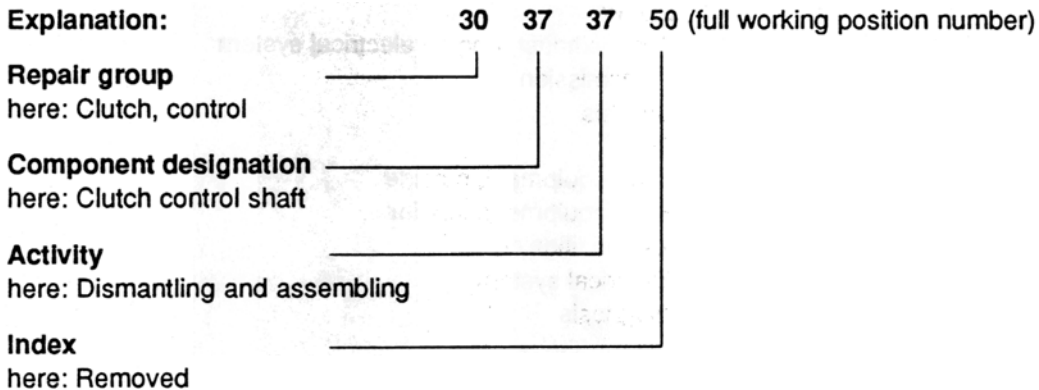
Another new feature is that the contents of the "Service Information Technik" are indicated in the Repair Manual. This brochure concentrates on a description of the design and function of components and of the new features introduced for a particular model year.

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**Service Number**

All major repair procedures and repair descriptions are identified by a two- or four-digit **Service Number** completed by two additional digits to identify the work that corresponds to the first six digits of the working position number in the Working Times and Damage Catalog.

**Example:**                    30 37 37    Dismantling and assembling clutch control shaft



**Presentation in the various documents**

- 30 37 37 50                    Working position no. from **Working Times and Damage Catalog**, consisting of repair group, component designation, activity and index
- 30 37 37                    Six-digit number in **Repair Manual**, consisting of repair group, component designation and activity
- 30 37                    Service number in **Service Information**, consisting of repair group and component designation

**Goal**

The introduction of a service number in the "technical literature" is intended to facilitate standardization and positive identification to allow direct cross-referencing among the various documents. This is of particular importance with regard to the use of electronic media.

## VII Wiring Diagrams

The Repair Manual of the 911 Carrera (993) also includes the 911 Carrera 4 manual (993 four-wheel drive). The 911 Carrera (993) is the basic model covered by the repair operations described in this Manual. "911 Carrera (993)" is also indicated in the header of each page.

Descriptions of repair operations that deviate for the 911 Carrera 4 will be included after the respective 911 Carrera section. The repair descriptions of both models are separated by a cover page. All pages included after the cover page (separation sheet) have the "911 Carrera 4" heading. To facilitate distinction, the page numbering will start with 100.

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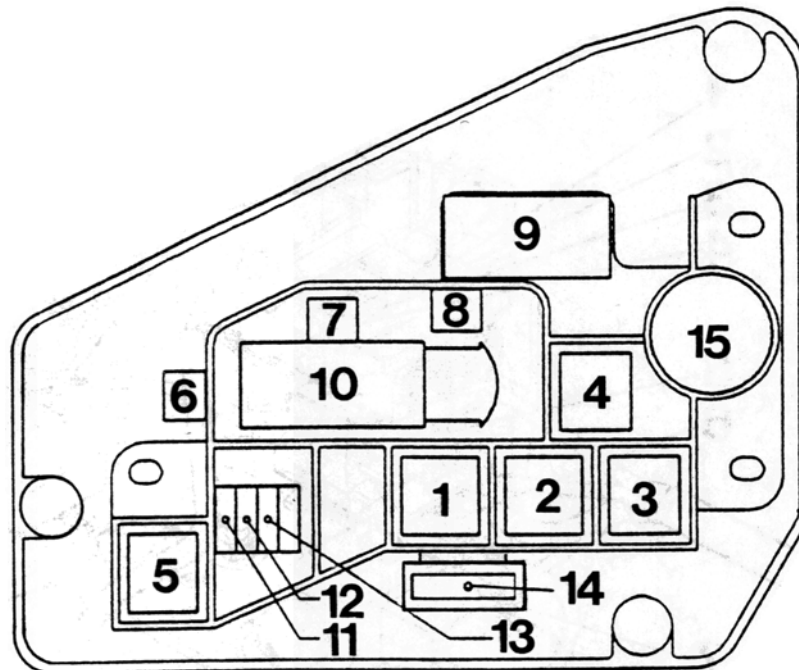
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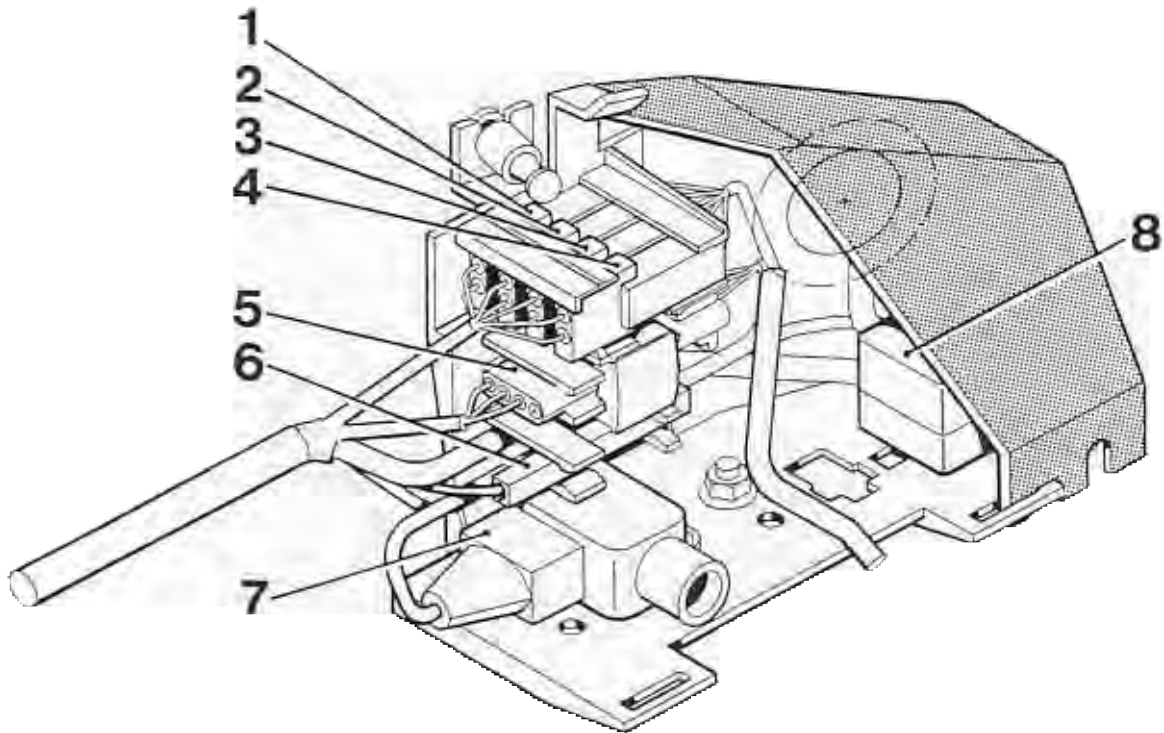
## 97 90 Support, left-hand engine compartment side



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- |   |                                     |
|---|-------------------------------------|
| 1 - Not used                                    | 9 - Connector, DME X 4/2, engine X3 |
| 2 - Relay, auxiliary air pump (USA/Canada only) | 10 - Connector, DME X 60            |
| 3 - Relay, AC compressor                        | 11 - Fuse, heater blower 30 A       |
| 4 - Relay, heated rear window                   | 12 - Fuse, rear window 25 A         |
| 5 - Relay, heater blower                        | 13 - Fuse, AC compressor 7,5 A      |
| 6 - Not used                                    | 14 - Fuse, auxiliary air pump 40 A  |
| 7 - Connector, suppression capacitor            | 15 - Suppression capacitor          |
| 8 - Not used                                    |                                     |

97 97 Support, right-hand engine compartment side



Oil level sender

AC compressor

Micro switch (link)

CO potentiometer, for vehicle not fitted with catalytic converter

Temperature sensor (catalytic converter)

Rear lights

Not

Oxygen sensor (CO potentiometer (vehicles fitted with catalytic converter))

## 97 09 Passenger compartment wiring harness

Only one wiring harness is supplied worldwide for service. The following modifications are therefore required when replacing the wiring harness:

### LHD vehicles

1. Connect jumper adapter 928. 615. 125. 00 to relay base R 34 on the Central Electrical System (not for Japan and USA/Canada vehicles).  
The foglight relay is retained on Japan and USA/Canada vehicles.
2. Disconnect coding jumper (in front of speedometer) on vehicles with 72-liter tank (wire color orange).
3. On vehicles fitted with anti-drive-off feature (M 530), the wires (0.5 sq.mm br/gn) for the driver door (X 11/1, pin 12) and passenger door (X 12/1, pin 11) connections must be unlatched, cut off and insulated.
4. On Tiptronic vehicles **without anti-drive-off feature**, the yellow-black wire (0.75 sq.mm) for the DME connection (X 4/1, pin 13) must be unlatched and soldered to pin 2 along with the black wire (2.5 sq.mm) (i.e. both wires soldered to pin 2).
5. On manual transmission vehicles **without anti-drive-off feature**, the jumper adapter 964. 610. 184. 00 must be connected on the relay base R 61 of the Central Electrical System.
6. On vehicles **without four-wheel drive**, the brown wire (0.5 sq.mm) must be unlatched from connector II (white) of the Central Information System (pin 24) and insulated.

7. On vehicles **without sound package**, radio connector II (speaker wires) must be separated from the booster adapter (8-pin connector ahead of radio) and connected to the radio.

8. Instead of the buzzer (443. 951. 307 B) of the light reminder, the gong relay (928. 618. 102. 03) must be fitted (already fitted on USA / Canada and Saudi-Arabia vehicles)

### RHD vehicles

1. Connect jumper adapter 928. 615. 125. 00 to relay base R 34 on the Central Electrical System (not for Japan and USA/Canada vehicles).  
The foglight relay is retained on Japan and USA/Canada vehicles.
2. On vehicles **without four-wheel drive**, the brown wire (0.5 sq.mm) must be unlatched from connector II (white) of the Central Information System (pin 24) and insulated.
3. On vehicles **without sound package**, radio connector II (speaker wires) must be separated from the booster adapter (8-pin connector ahead of radio) and connected to the radio.

## 97 09 41 Repairing the passenger compartment wiring harness

### Note

The ABS and brake pad wear indicator combination wires are integral parts of the wiring harness. When repairing damaged sections, the integral wires can be cut off and replaced with repair wires.

The passenger compartment wiring harness includes the rear left and right wires.

Run the following operational checks after completing the repair:

ABS: Check with system tester 9288.

Brake pad wear indicator: The lamp must go dim when the engine is running, provided that the pads are in good condition.

### Joints

The joints for disconnecting the wiring are located inside the emergency seat pan on the left and right-hand sides ahead of the wire exit towards the outside.

1. Disconnect battery.
2. Fold emergency seat backrests forward.
3. Remove rear panel trim.
4. Tie damping mat out of the way with a strip of self-adhesive tape.

### Note

Undo soft top motors on cabriolet vehicles (4 bolts).

5. Starting at the rubber grommets, cut insulating hose open along a length of approx. 20 mm towards the right.
6. Remove PVC insulating tape.
7. Remove shrink-fit caps from joints.

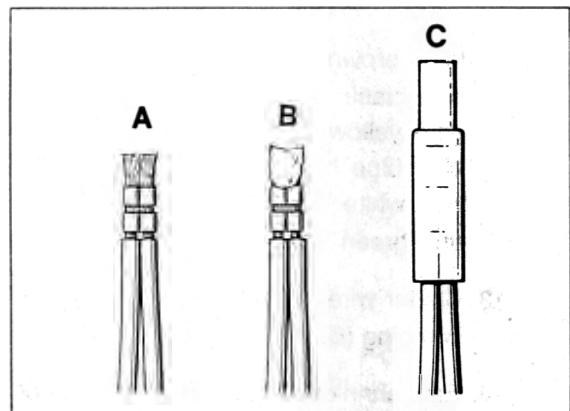
8. Cut off connectors.

9. Remove combination wires.

10. Fit repair wires from wheel carriers towards seat pan.

11. Strip wires along a length of 10 mm.

12. Connect wires according to table with crimp connectors and standard crimping tool (A).



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Combination wire		Wiring harness
Color	Length	Color
		<b>Rear left</b>
br/sw	30 mm	br/sw
br/gn	60 mm	br/gn
br/ws	90 mm	ws*
br/bl	120 mm	shield
br	150 mm	br

\* shielded wires

Combination wire		Wiring harness
Color	Length	Color
		<b>Rear right</b>
br/sw	30 mm	br/sw
br/gn	60 mm	br/gn
br/ws	90 mm	ge*
br/bl	120 mm	shield
br	150 mm	br

\* shielded wires

br - brown  
 sw - black  
 ge - yellow  
 bl - blue  
 ws - white  
 gn - green

13. Solder wire tips after crimping (B).
14. Refit shrink-fit caps and shrink into place with hot air gun (C).
15. Wrap entire joint area with standard PVC tape.

## 97 16 41 Repairing the front-end wiring harness

### Note

1916 - 97

The ABS and brake pad wear indicator combination wires are integral parts of the wiring harness. When repairing damaged sections, the integral wires can be cut off and replaced with repair wires.

The front-end wiring harness includes the front left and right wires.

Run the following operational checks after completing the repair:

ABS: Check with ABS tester.

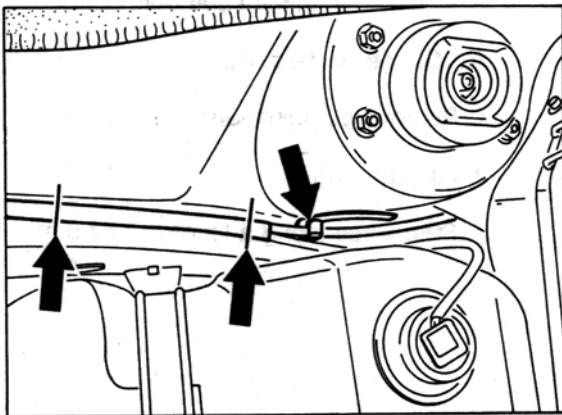
Brake pad wear indicator: The lamp must go dim when the engine is running, provided that the pads are in good condition.

### Joints

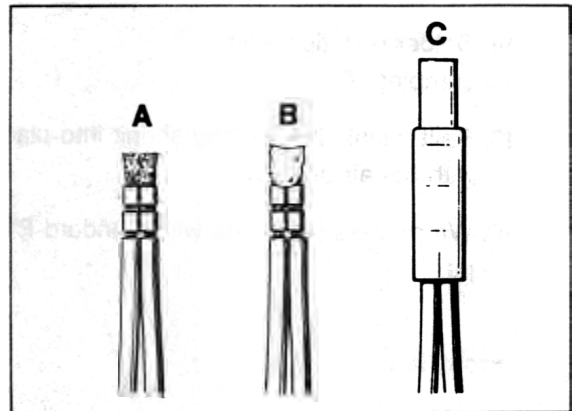
The joints for disconnecting the wiring are located on the right and left sides inside the luggage compartment above the side member near the strut towers.

### Front right

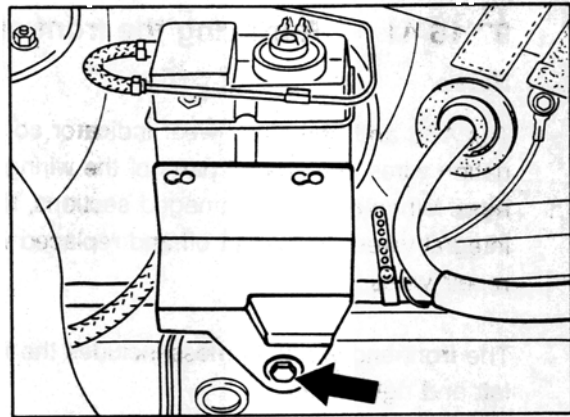
1. Disconnect battery.
2. Remove right-hand front wheel
3. Remove rear wheel housing liner.
4. Undo tie-wrap in wheel housing area.
5. Undo tie-wrap in luggage compartment.



6. Cut insulating hose open at the wiring harness.
7. Remove PVC insulating tape.
8. Remove shrink-fit caps from joints.
9. Cut off connectors.
10. Remove combination wire.
11. Fit repair wire.
12. Strip wire along a length of 10 mm.
13. Connect wires according to table with crimp connectors and standard crimping tool (A).



Combination wire		Wiring harness
Color	Length	Color
		Front right
br/sw	30 mm	br/sw
br/gn	60 mm	br/gn
br/ws	90 mm	gn*
br/bl	120 mm	shield
br	150 mm	br



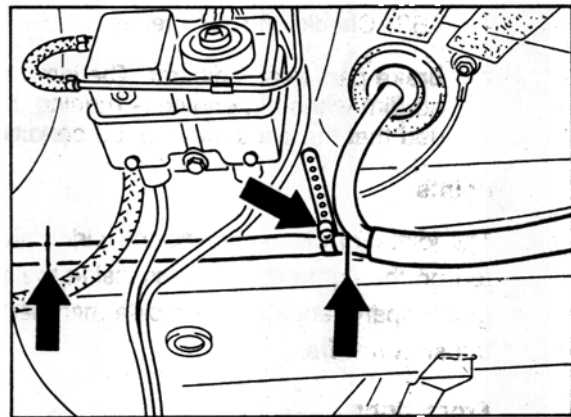
1917 - 97

\* shielded wire

- br - brown
- sw - black
- bl - blue
- ws - white
- gn - green

6. Undo tie-wrap in luggage compartment.

14. Solder wire tips after crimping (B).
15. Refit shrink-fit caps and shrink into place with hot air gun (C).
16. Wrap entire joint area with standard PVC tape.



**Front left**

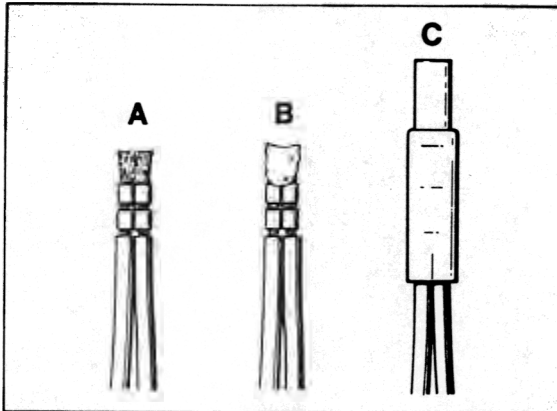
1. Disconnect battery.
2. Remove left-hand front wheel
3. Remove rear wheel housing liner.
4. Undo tie-wrap in wheel housing area.
5. Remove bracket for brake fluid reservoir.

7. Cut insulating hose open at the wiring harness.
8. Remove PVC insulating tape.
9. Remove shrink-fit caps from joints.
10. Cut off connectors.
11. Remove combination wire.
12. Fit repair wire.
13. Strip wires along a length of 10 mm.



14. Connect wires according to table with crimp connectors and standard crimping tool (A).

17. Wrap entire joint area with standard PVC tape.



Combination wire		Wiring harness
Color	Length	Color
		<b>Front left</b>
br/sw	30 mm	br/sw
br/gn	60 mm	br/gn
br/ws	90 mm	rt*
br/bl	120 mm	shield
br	150 mm	br

\* shielded wire

br - brown  
 sw - black  
 rt - red  
 bl - blue  
 ws - white  
 gn - green

15. Solder wire tips after crimping (B).

16. Refit shrink-fit caps and shrink into place with hot air gun (C).

**97 09 Spare part - passenger compartment wire harness for Model '95**

World-wide, 8 wire harnesses are available as spare parts. When using this wire harness, the following modifications must therefore be made:

**Left-hand drive vehicles, model '95**

1. Insert jumper adapter 964.610.184.00 in relay socket R 34 on the central electrical system (not for Japan and USA/Canada vehicles).  
On Japan and USA/Canada vehicles, the foglight relay remains in position.
2. On Tiptronic vehicles **without immobilizer**, the wire (0.75 mm<sup>2</sup> yellow/black) on the immobilizer relay (R 61), pin 7, must be cut off about 80 mm ahead of the relay socket. The lead from relay pin 7 must then be crimped to the lead (4 mm<sup>2</sup>, yellow) from pin 3 (double connection).  
See wiring diagram - section N 49 line (0.75 mm<sup>2</sup> yellow) "M 249 not M 530"
3. On manual vehicles **without immobilizer**, jumper adapter 964.610.184.00 must be inserted in relay socket R 61 on the central electrical system.
4. On vehicles **with immobilizer**, the lead (0.5 mm<sup>2</sup> orange/black) at connector X 4/2 pin 12 (double connection), must be cut off at the contact, insulated and tied up.
5. On vehicles **without four-wheel drive**, the lead (0.5 mm<sup>2</sup> brown) from connector II (white) on the central informer (Pin 24) must be unclipped and insulated.
6. On vehicles with small fuel tanks (approx. 71 l) the lead (0.5 mm<sup>2</sup> orange/black) from connector II (white) on the central informer (pin 26) must be unclipped and insulated.
7. On vehicles without **sound package**, radio connector II (loudspeaker lines) must be disconnected from the booster adapter (8-pin connector ahead of radio) and connected to the radio.
8. Instead of the buzzer (443.951.307 B) for the light warning, the gong relay (928.618.102.03) must be installed (already installed on vehicles for USA/Canada and Saudi Arabia).

## 97 09 Spare part - passenger compartment wire harness for Model '95

World-wide, 8 wire harnesses are available as spare parts. When using this wire harness, the following modifications must therefore be made:

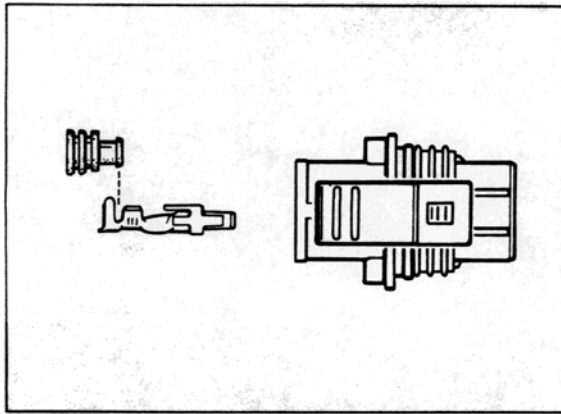
### Right-hand drive vehicles, model '95

1. Insert jumper adapter 964.610.184.00 in relay socket R 34 on the central electrical system.  
(not for Japan and USA/Canada vehicles).  
On Japan and USA/Canada vehicles, the foglight relay remains in position.
2. On Tiptronic vehicles **without immobilizer**, the wire (0.75 mm<sup>2</sup> yellow/black) on the immobilizer relay (R 61), pin 7, must be cut off about 80 mm ahead of the relay socket.  
The lead from relay pin 7 must then be crimped to the lead (4 mm<sup>2</sup>, yellow) from pin 3 (double connection).  
See wiring diagram - section N 49 line (0.75 mm<sup>2</sup> yellow) "M 249 not M 530"
3. On manual vehicles **without immobilizer**, jumper adapter 964.610.184.00 must be inserted in relay socket R 61 on the central electrical system.
4. On vehicles **with immobilizer**, the lead (0.5 mm<sup>2</sup> orange/black) at connector X 4/2 pin 12 (double connection), must be cut off at the contact, insulated and tied up.
5. On vehicles **without four-wheel drive**, the lead (0.5 mm<sup>2</sup> brown) from connector II (white) on the central informer (Pin 24) must be unclipped and insulated.
6. On vehicles **without sound package**, radio connector II (loudspeaker lines) must be disconnected from the booster adapter (8-pin connector ahead of radio) and connected to the radio.
7. On vehicles **with sound package**, channels VR and VL and channels HR and HL must be interchanged at radio connector II (socket contact).  
1.5 mm<sup>2</sup> brown/black (Pin 6) must be interchanged with  
1.5 mm<sup>2</sup> brown/white (Pin 4)  
  
1.5 mm<sup>2</sup> black (Pin 5) must be interchanged with  
1.5 mm<sup>2</sup> white (Pin 3)  
  
1.5 mm<sup>2</sup> brown/red (Pin 2) must be interchanged with  
1.5 mm<sup>2</sup> brown/yellow (Pin 8)  
  
1.5 mm<sup>2</sup> red (Pin 1) must be interchanged with  
1.5 mm<sup>2</sup> yellow (Pin 7)

**97 50 41 Repairing wire harness no. 173 (DME)****Note**

As of model year 1996, knock sensors, speed senders and temperature sensors with optimized plug connections will be installed. In this case, the connector housing of older wire harnesses must be modified.

1. Cut wires right next to the old connector housing.
2. Push new sheaths onto each individual wire and insulate wires on a length of approx. 5 mm.
3. Use a crimping tool to crimp the connector contact and the sheath.



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4. As for the terminal assignment in the connector housing, the wiring diagram and the following table must be observed.

**Knock sensors 1 and 2**

Term. 1 - WS (white)  
 Term. 2 - BR (brown)  
 Term. 3 - Sheath

**Speed sender**

Term. 1 - WS (white)  
 Term. 2 - BR (brown)  
 Term. 3 - Sheath

**Engine temperature sensor (NTC II)**

Term. 1 - SW/RT (black/red)  
 Term. 2 - Dummy plug  
 Term. 3 - BR (brown)

5. Terminal 2 on the temperature sensor is not used and has to be fitted with a dummy plug.

**Note**

These optimized parts can also be installed in the 911 Carrera (964) as of model year 1989. The old connector housings of the DME wire harness must be replaced.

**97 52 Engine wire harness****Note**

The injection valves for cylinders 1 to 6 are no longer marked on the wire harness. Assignment is now based on the different colors of the connector housings.

Cylinder	Color of connector housing
1 and 4	white
2 and 5	brown
3 and 6	blue

## 97 09 Spare part - passenger compartment wire harness for Model '96

### Remark

On Cabriolet and Targa vehicles, removing or installing the cable for the interior light and the passenger compartment monitoring sensor **below the A-pillar is impossible with the windshield installed**. In this case, cut off the passenger compartment wire harness (marked with yellow adhesive tape) before the instruments and as close to the main wire harness as possible.

When installing a new passenger compartment wire harness, cut off the wires behind the yellow adhesive tape and connect them to the vehicle's wires of the same color by soldering or crimping. Then insulate the wires thoroughly. New passenger compartment wire harness delivered by After-Sales always include lines for the passenger compartment monitoring system. Insulate these wires thoroughly if they are not used.

**If the windshield has been removed or if the wire harness is installed in the A-pillar** on vehicles without passenger compartment monitoring, cut off the 6-pin plug connection in the cutout for the light in the windshield frame. Then fit a flat receptacle N 17 480.5 and an insulating bushing 111.971.921 B to the brown, the brown/white and the red wire and connect these wires to the interior light. Insulate the yellow/red wire and the yellow/black wire thoroughly and tie them to the wire harness using tie-wraps.

### Left-hand drive vehicles, model '96

1. Insert jumper adapter 964.610.184.00 in relay socket R 34 on the central electrical system (not for Japan and USA/Canada vehicles).

On Japan and USA/Canada vehicles, the foglight relay remains in position.

2. On Tiptronic vehicles **without immobilizer**, the wire (0.75 mm<sup>2</sup> yellow/black) on the immobilizer relay (R 61), pin 7, must be cut off about 80 mm ahead of the relay socket. The lead from relay pin 7 must then be crimped to the lead (4 mm<sup>2</sup>, yellow) from pin 3 (double connection).

See wiring diagram - section N 49 line (0.75 mm<sup>2</sup> yellow) "M 249 not M 530"

3. On manual vehicles **without immobilizer**, jumper adapter 964.610.184.00 must be inserted in relay socket R 61 on the central electrical system.
4. On vehicles **with immobilizer**, the lead (0.5 mm<sup>2</sup> orange/black) at connector X 4/2 pin 12 (double connection), must be cut off at the contact, insulated and tied up.
5. On vehicles **without four-wheel drive**, the lead (0.5 mm<sup>2</sup> brown) from connector II (white) on the central informer (Pin 24) must be unclipped and insulated.
6. On vehicles with small fuel tanks (approx. 71 l) the lead (0.5 mm<sup>2</sup> orange/black) from connector II (white) on the central informer (pin 26) must be unclipped and insulated.
7. On vehicles without **sound package**, radio connector II (loudspeaker lines) must be disconnected from the booster adapter (8-pin connector ahead of radio) and connected to the radio.
8. Instead of the buzzer (443.951.307 B) for the light warning, the gong relay (928.618.102.03) must be installed (already installed on vehicles for USA/Canada and Saudi Arabia).

## 97 09 Spare part - passenger compartment wire harness for Model '96

### Right-hand drive vehicles, model '96

1. Insert jumper adapter 964.610.184.00 in relay socket R 34 on the central electrical system.  
(not for Japan and USA/Canada vehicles).  
On Japan and USA/Canada vehicles, the foglight relay remains in position.
2. On Tiptronic vehicles **without immobilizer**, the wire (0.75 mm<sup>2</sup> yellow/black) on the immobilizer relay (R 61), pin 7, must be cut off about 80 mm ahead of the relay socket. The lead from relay pin 7 must then be crimped to the lead (4 mm<sup>2</sup>, yellow) from pin 3 (double connection).  
See wiring diagram - section N 49 line (0.75 mm<sup>2</sup> yellow) "M 249 not M 530"
3. On manual vehicles **without immobilizer**, jumper adapter 964.610.184.00 must be inserted in relay socket R 61 on the central electrical system.
4. On vehicles **with immobilizer**, the lead (0.5 mm<sup>2</sup> orange/black) at connector X 4/2 pin 12 (double connection), must be cut off at the contact, insulated and tied up.
5. On vehicles **without four-wheel drive**, the lead (0.5 mm<sup>2</sup> brown) from connector II (white) on the central informer (Pin 24) must be unclipped and insulated.
6. On vehicles without **sound package**, radio connector II (loudspeaker lines) must be disconnected from the booster adapter (8-pin connector ahead of radio) and connected to the radio.
7. On vehicles **with sound package**, channels VR and VL and channels HR and HL must be interchanged at radio connector II (socket contact).  
1.5 mm<sup>2</sup> brown/black (Pin 6) must be interchanged with  
1.5 mm<sup>2</sup> brown/white (Pin 4)  
  
1.5 mm<sup>2</sup> black (Pin 5) must be interchanged with  
1.5 mm<sup>2</sup> white (Pin 3)  
  
1.5 mm<sup>2</sup> brown/red (Pin 2) must be interchanged with  
1.5 mm<sup>2</sup> brown/yellow (Pin 8)  
  
1.5 mm<sup>2</sup> red (Pin 1) must be interchanged with  
1.5 mm<sup>2</sup> yellow (Pin 7)

**97 09 Spare part - passenger compartment wire harness for Model '96****Note**

Supplement to Spare part-passenger compartment wire harness for Model '96, on Page 97 - 015 for left-hand drive vehicles or Page 97 - 016 for right-hand drive vehicles.

**Left-hand drive vehicles, '96 model**

1. In general, all unneeded tie-outs and connectors must be carefully tied in and secured against rattling when replacement harnesses are used.
2. On **Targa vehicles with telephone (M615)**, the telephone antenna must be subsequently pulled through the central electrical system flange (toward luggage compartment). Excess length is accommodated in front of right-hand A-pillar.
3. On **Coupe vehicles with naturally aspirated engine**, the tie-out for the interior light and passenger compartment monitoring (left-hand A-pillar for Targa) must be tied back or cut off and insulated.
4. On **Targa vehicles**, the sliding-roof switch plug (2.5 sq. mm wire) – or the two plugs for glass roof and roller sun blind (each 3 x 0.5 sq. mm wire) on Coupe vehicles – must be tied back and secured against rattling.
5. Tie back excess length at rear spoiler switch (required on Targa with rear window wiper) if not used.
6. On **Coupe vehicles**, the excess length must be carefully tied back at the rear-wiper motor.
7. On **UST vehicles**, the rear-spoiler tie-out must be tied back at the right in the engine compartment.
8. On **Targa vehicles with manual transmission for the USA**, the two tied-in wires 0.5 YE/BK and 0.5 YE/RD on plug II of the alarm system control module must be swapped with the two wires of the same colour in ports II 24 and II 8.
9. On **Coupe and Targa vehicles with naturally aspirated engines for the USA**, the combination wire (ABS - BVA) must be routed through the heel plate at the rear left instead of through the seat well (like Turbo). Close off seat well bore with the old wiring harness grommet and sealant.
10. On **RS vehicles (M003)** with battery disconnection switch, the tied-in red 2.0 sq. mm wire must be swapped with the wire of the same colour at terminal 30 in the plug of the hazard warning light switch. Cut off contact at former wire and carefully insulate and tie in the wire.
11. On **UST vehicles** with large tank (90 l = M 545), the wire (0.5 BN) must be disconnected from pin 26 of plug II (white) in the central information system and insulated.



**Right-hand drive vehicles, '96 model**

1. In general, all unneeded tie-outs and connectors must be carefully tied in and secured against rattling when replacement harnesses are used.
2. On **Coupe vehicles with naturally aspirated engine**, the tie-out for the interior light and passenger compartment monitoring (left-hand A-pillar for Targa) must be tied back or cut off and insulated.
3. On **Targa vehicles**, the sliding-roof switch plug (2.5 sq. mm wire) – or the two plugs for glass roof and roller sun blind (each 3 x 0.5 sq. mm wire) on Coupe vehicles – must be tied back and secured against rattling.
4. Tie back excess length at rear spoiler switch (required on Targa with rear-window wiper) if not used.
5. On **Coupe vehicles**, the excess length must be carefully tied back at the rear-wiper motor.
6. On **UST vehicles**, the rear-spoiler tie-out must be tied back at the right in the engine compartment.
7. On **Targa vehicles with manual transmission for the USA**, the two tied-in wires 0.5 YE/BK and 0.5 YE/RD on plug II of the alarm system control module must be swapped with the two wires of the same colour in ports II 24 and II 8.
8. On **Coupe and Targa vehicles with naturally aspirated engine for the USA**, the combination wire (ABS - BVA) must be routed through the heel plate at the rear left instead of through the seat well (like Turbo). Close off seat well bore with the old wiring harness grommet and sealant.
9. On **RS vehicles (M003)** with battery disconnection switch, the tied-in red 2.0 sq. mm wire must be swapped with the wire of the same colour at terminal 30 in the plug of the hazard warning light switch. Cut off contact at former wire and carefully insulate and tie in the wire.

**97 09 Spare part - passenger compartment wire harness for Model '97****Note**

All conversion work described on Pages 97 - 015 to 97 - 018 for the spare part - passenger compartment wire harness for Model '96 also must be performed on the spare part - passenger compartment wire harness for Model '97. Four further conversion work steps are necessary for the model year '97.

**Left-hand drive vehicles, '97 model**

1. On **vehicles with DSP** (M680), the wire 0.5 WT/RD must be removed from port 1 of radio plug A (black) and insulated.
2. On **vehicles with telephone** (M615 or M618) in combination with sound package, the 2-pole connection wire BU and BU/BN in the centre console is connected to the amplifier instead of the loudspeaker.
3. On **LHD UST vehicles** (not 553), the plug interlock must be cut off and the two wires BN and BN/WT crimped or soldered together. Then insulate them carefully and tie in (starter function!!).

**Right-hand drive vehicles, '97 model**

1. On **vehicles with DSP** (M680), the wire 0.5 WT/RD must be removed from port 1 of radio plug A (black) and insulated.

# Wiring Diagram Type 911 Carrera (993) Model 95

	Coordinates	
Sheet 1	1 - 10	Lights
Sheet 2	11 - 20	Alarm System, Central Locks, Mirror, Power Window Regulator, Inside Lights
Sheet 3	21 - 30	Heater, AC, Coolant Fan, Rear Window Defogger
Sheet 4	31 - 40	ABS, ABD
Sheet 5	41 - 50	Motor, Ignition, Cruise Control
Sheet 6	51 - 60	Instruments, Sensor, Central Informer, On-board computer
Sheet 7	61 - 70	Seats
Sheet 8	71 - 80	Rear Spoiler, Two-Tone Horns, Wipe- and Wash Cleaners, Sun Roof, Convertible Top
Sheet 9	81 - 90	Radio, Telephone
Sheet 10	91 - 100	Fog Light, Rear Fog Light
Sheet 11		Central Electric
Sheet 12	111 - 120	Airbag
Sheet 13	121 - 130	Tiptronic
Sheet 14	131 - 140	Ground Points
Sheet 15		Construction Components
Sheet 16		Plug Connections, M-Numbers, Abbreviations
Sheet 17	141 - 150	Code Lock

# Wiring Diagram Type 911 Carrera (993) Model 95

The wiring diagram consists of 14 *individual wiring diagrams*, 1 sheet *construction components*, 1 sheet *plug connections* and 1 sheet *ground points*. These are divided into coordinate fields.

Each individual wiring diagram contains a part of the central-electrics box in a dashdotted frame.

This part of the central-electrics box shows all the lines and relays necessary for the individual wiring diagram.

The earth/ground points are identified by "GP" and their location is shown in a vehicle diagram.

The 10-pin connectors on the central-electrics box are clipped together out of 3 parts, the 20-pin connectors are clipped together out of 5 parts.

Part 1, with the moduled-on fastening lug, is the "starting element".

Parts 2,3 and 4 are "module elements".

The 10-pin connectors only contents one "module element".

Start- and module elements are identified by the numbers 1.....5.

Part 5 ist a "coding element".

The designations of the plug connections in the wiring diagram refer to the "starting element" from, for example, A 11.....15, and to the first module element from A 21.....25.

The connectors are identified by an X and a number.

Wherever wires branch to another page, the coordinates and, in certain cases, the terminal markings are indicated.

The input and output signals of control units are indicated by arrows.

The feed wire of wire joints is indicated by an arrow.

# Wiring Diagram 911 Carrera (993) Model 95/2

## Coordinates

<b>Sheet 1</b>	1 - 10	
<b>Sheet 2</b>	11 - 20	Alarm System, Central Locks, Mirror, Power Window Regulator, Inside Lights
<b>Sheet 3</b>	21 - 30	Heater, AC, Coolant Fan, Rear Window Defogger
<b>Sheet 4 A</b>	31 - 40	
<b>Sheet 4 B</b>	31 - 40	ABS (RS)
<b>Sheet 5 A</b>	41 - 50	Motor, Ignition, Cruise Control
<b>Sheet 6</b>	51 - 60	Instruments, Sensor, Central Informer, On-board computer
<b>Sheet 7</b>	61 - 70	
<b>Sheet 8</b>	71 - 80	Rear Spoiler, Two-Tone Horns, Wipe- and Wash Cleaners, Sun Roof, Convertible Top
<b>Sheet 9</b>	81 - 90	Radio, Telephone
<b>Sheet 10</b>	91 - 100	Fog Light, Rear Fog Light
<b>Sheet 11</b>	101 - 110	Code Lock
<b>Sheet 12</b>	111 - 120	Airbag
<b>Sheet 13</b>	121 - 130	Tiptronic
<b>Sheet 14</b>	131 - 140	Ground Points
<b>Sheet 15</b>		Construction Components
<b>Sheet 16</b>		Plug Connections, M-Numbers, Abbreviations
<b>Sheet 17</b>		Central Electric

**For vehicles with V.I.N.s from WP0 AA2 99 1SS3 21454 and from WP0 CA2 99 8SS3 41225**

# Wiring Diagram 911 Carrera (993) Model 95/2

The wiring diagram consists of 15 *individual wiring diagrams*, 1 sheet *construction components*, 1 sheet *plug connections* and 1 sheet *ground points*. These are divided into coordinate fields.

Each individual wiring diagram contains a part of the central-electrics box in a dashdotted frame.

This part of the central-electrics box shows all the lines and relays necessary for the individual wiring diagram.

The earth/ground points are identified by "GP" and their location is shown in a vehicle diagram.

The 10-pin connectors on the central-electrics box are clipped together out of 3 parts, the 20-pin connectors are clipped together out of 5 parts.

Part 1, with the moduled-on fastening lug, is the "starting element".

Parts 2,3 and 4 are "module elements".

The 10-pin connectors only contents one "module element".

Start- and module elements are identified by the numbers 1 .5.

Part 5 ist a "coding element".

The designations of the plug connections in the wiring diagram refer to the "starting element" from, for example, A 11.....15, and to the first module element from A 21.....25.

The connectors are identified by an X and a number.

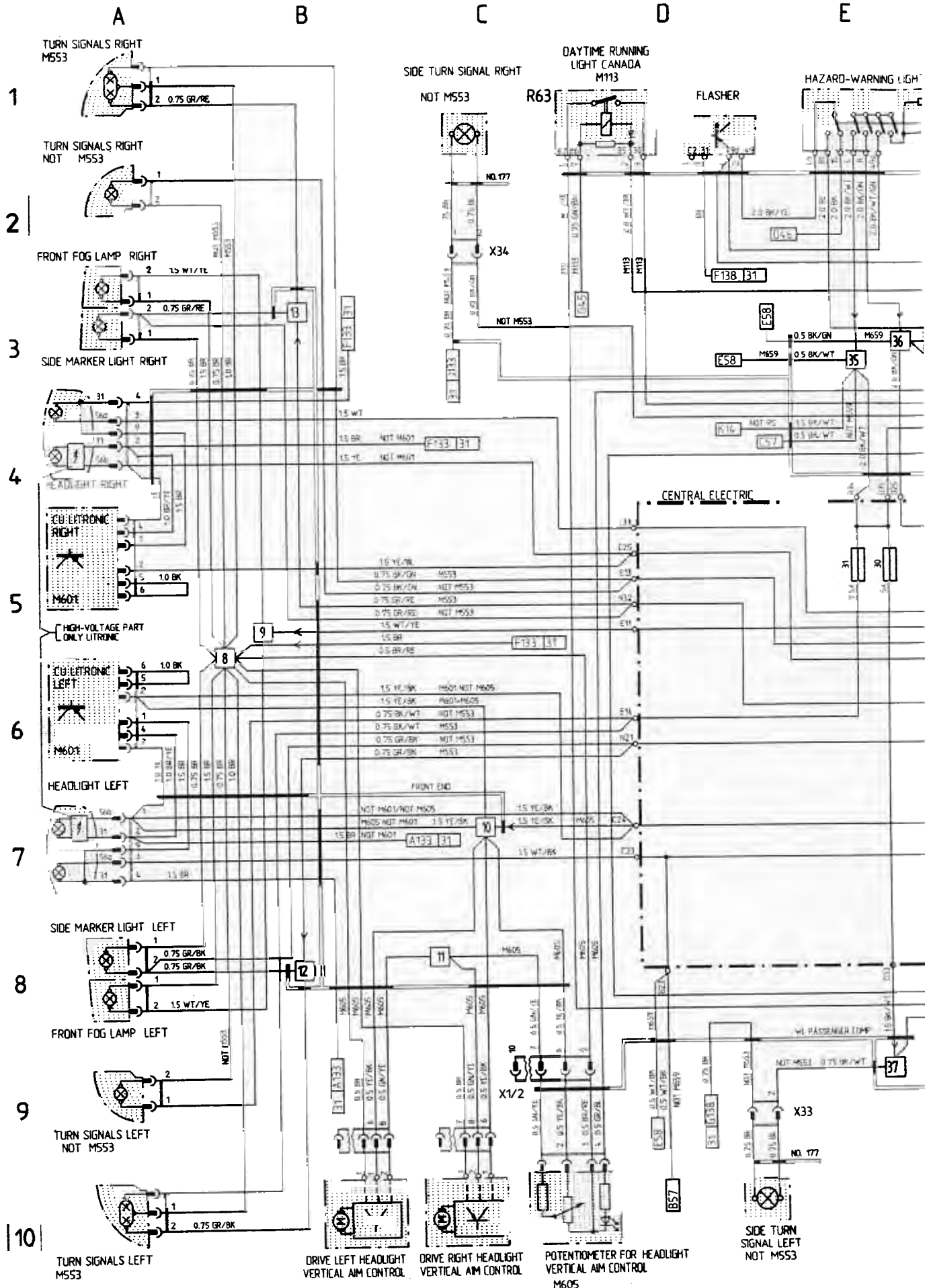
Wherever wires branch to another page, the coordinates and, in certain cases, the terminal markings are indicated.

The input and output signals of control units are indicated by arrows.

The feed wire of wire joints is indicated by an arrow.

# 911 Carrera (1993) MODEL 95/2 SHEET 1

## LIGHTS



F

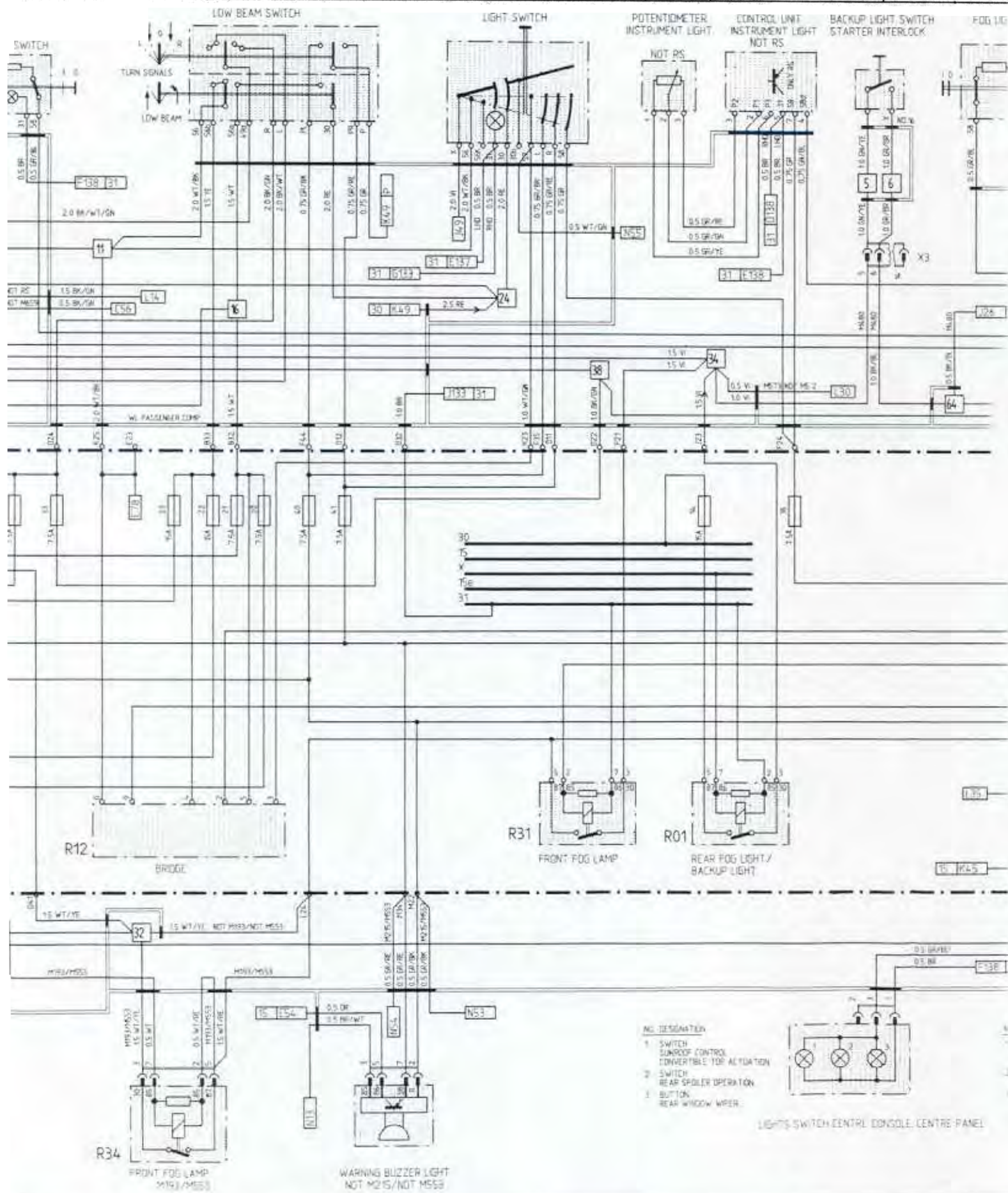
G

H

J

K

L



F

G

H

J

K

L

BK = BLACK

WT = WHITE

RE = RED

GN = GREEN

YE = YELLOW

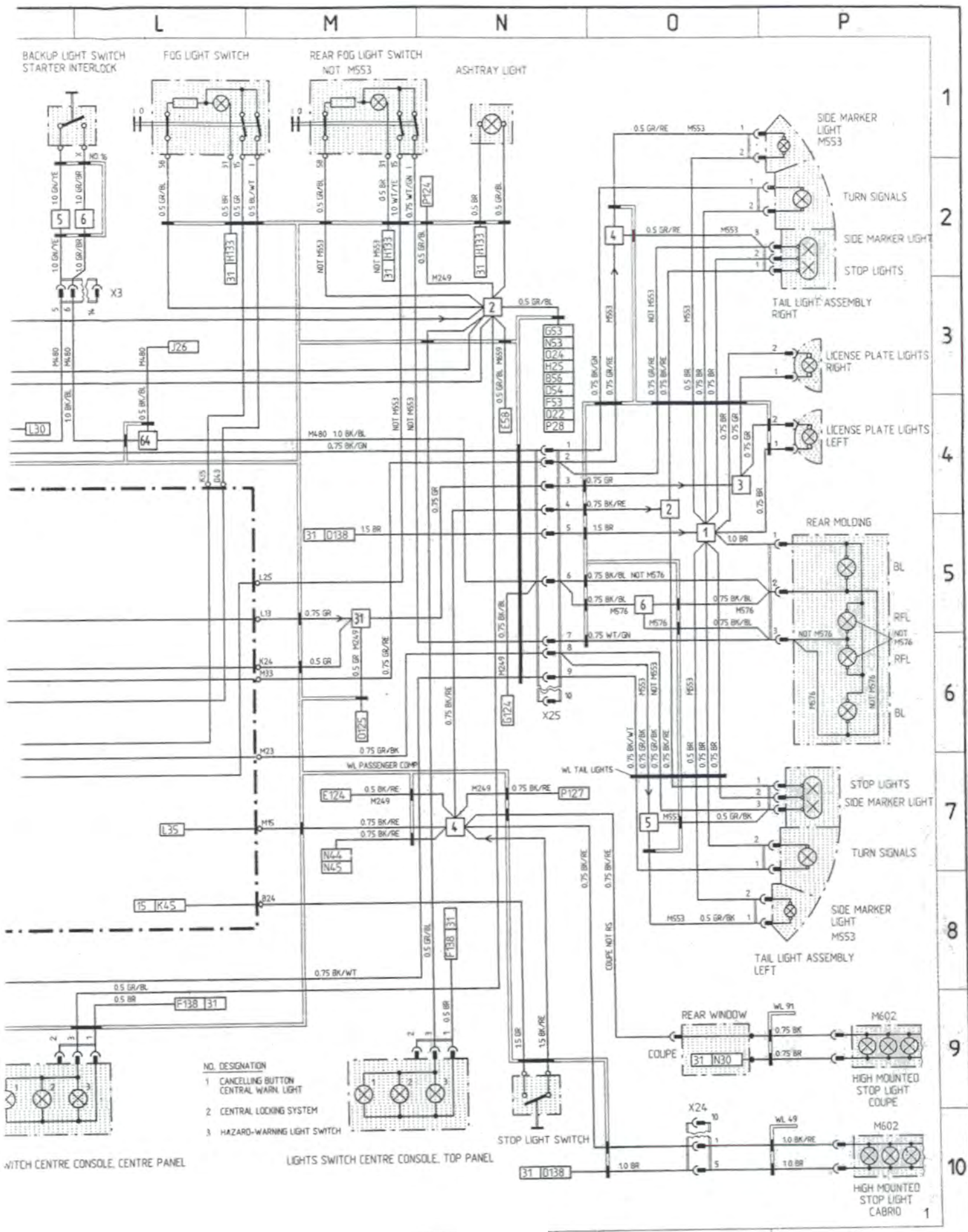
GR = GREY

BR = BROWN

BL = BLUE

V = VIOLET





- NO. DESIGNATION
- 1 CANCELLING BUTTON CENTRAL WARN LIGHT
  - 2 CENTRAL LOCKING SYSTEM
  - 3 HAZARD-WARNING LIGHT SWITCH

SWITCH CENTRE CONSOLE, CENTRE PANEL

LIGHTS SWITCH CENTRE CONSOLE, TOP PANEL

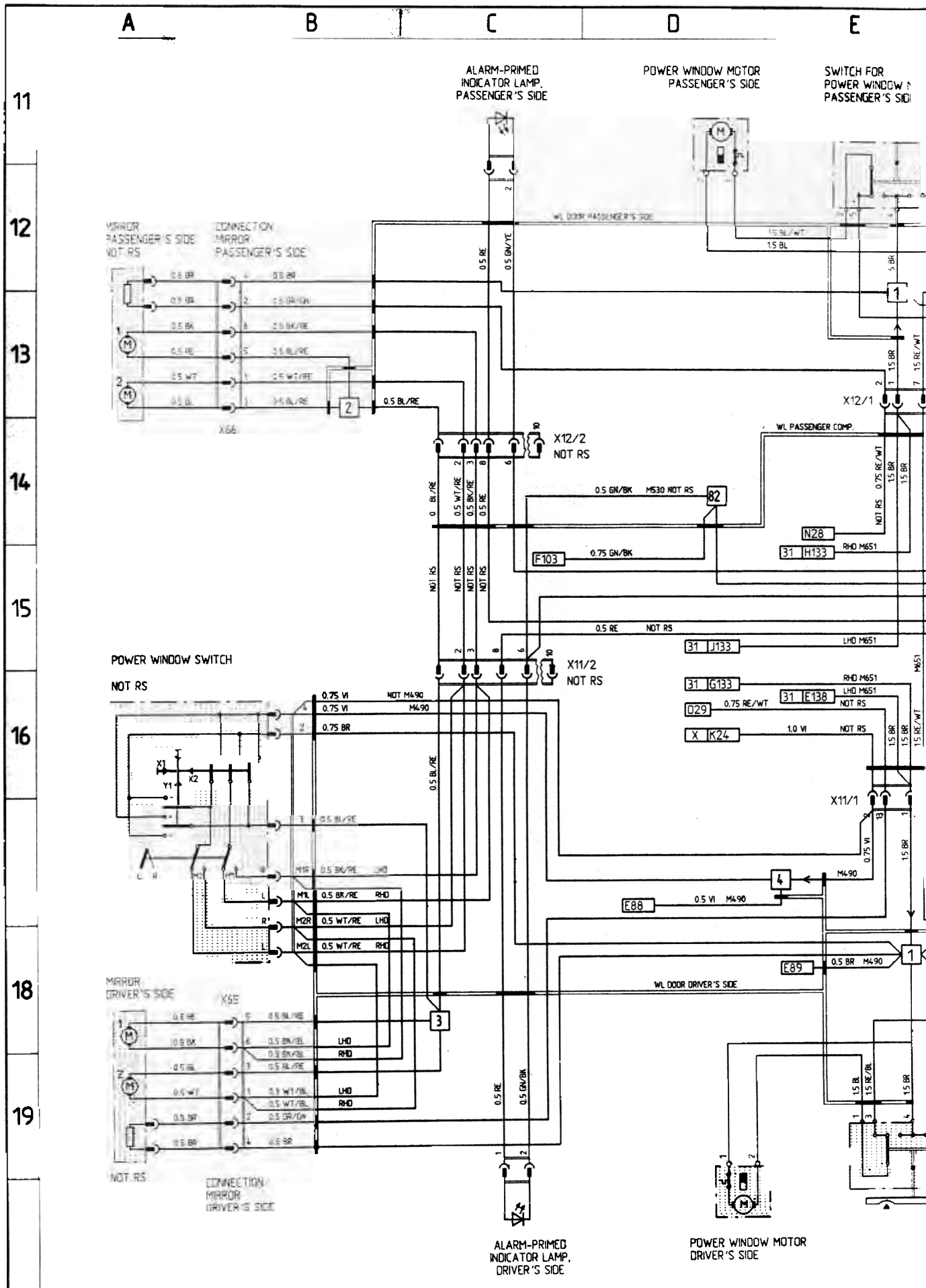
STOP LIGHT SWITCH

HIGH MOUNTED STOP LIGHT CABRIO

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
1

# 911 Carrera (1993) MODEL 95/2 SHEET 2

SEATS, ALARM SYSTEM, CENTRAL LOCKS, MIRROR, POWER WINDOW REGULATOR, INSIDE LIGHTS



F

G

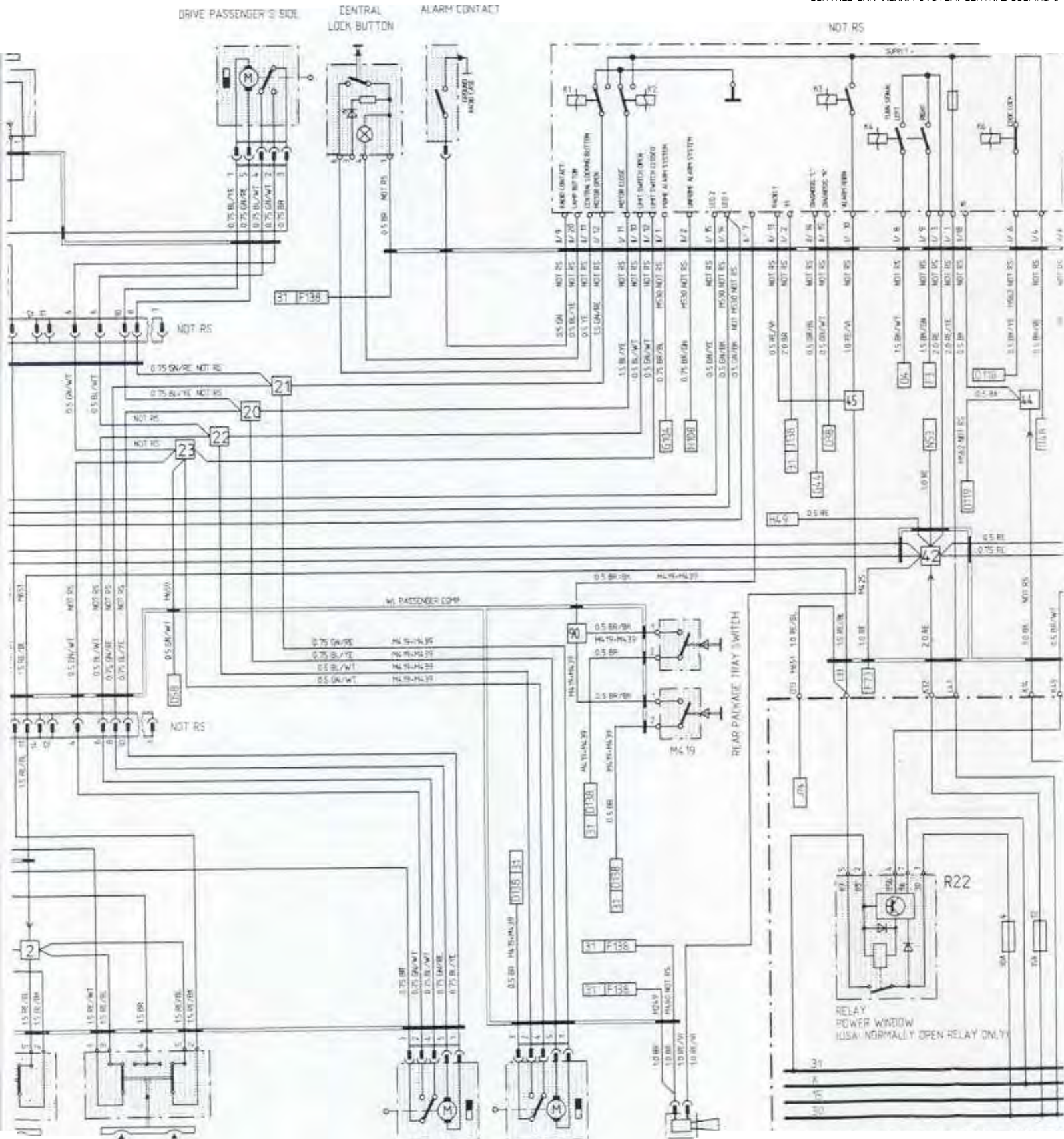
H

J

K

L

## CONTROL UNIT ALARM SYSTEM/CENTRAL LOCKING S



MOTOR

SWITCH FOR  
POWER WINDOW  
PASSENGER'S SIDE

DRIVE DRIVER'S SIDE

DRIVE REAR  
PACKAGE TRAY

F

G

H

J

K

L

BK = BLACK

WT = WHITE

RE = RED

GN = GREEN

YE = YELLOW

GR = GREY

BR = BROWN

BL = BLUE

VI = VIOLE

L

M

N

O

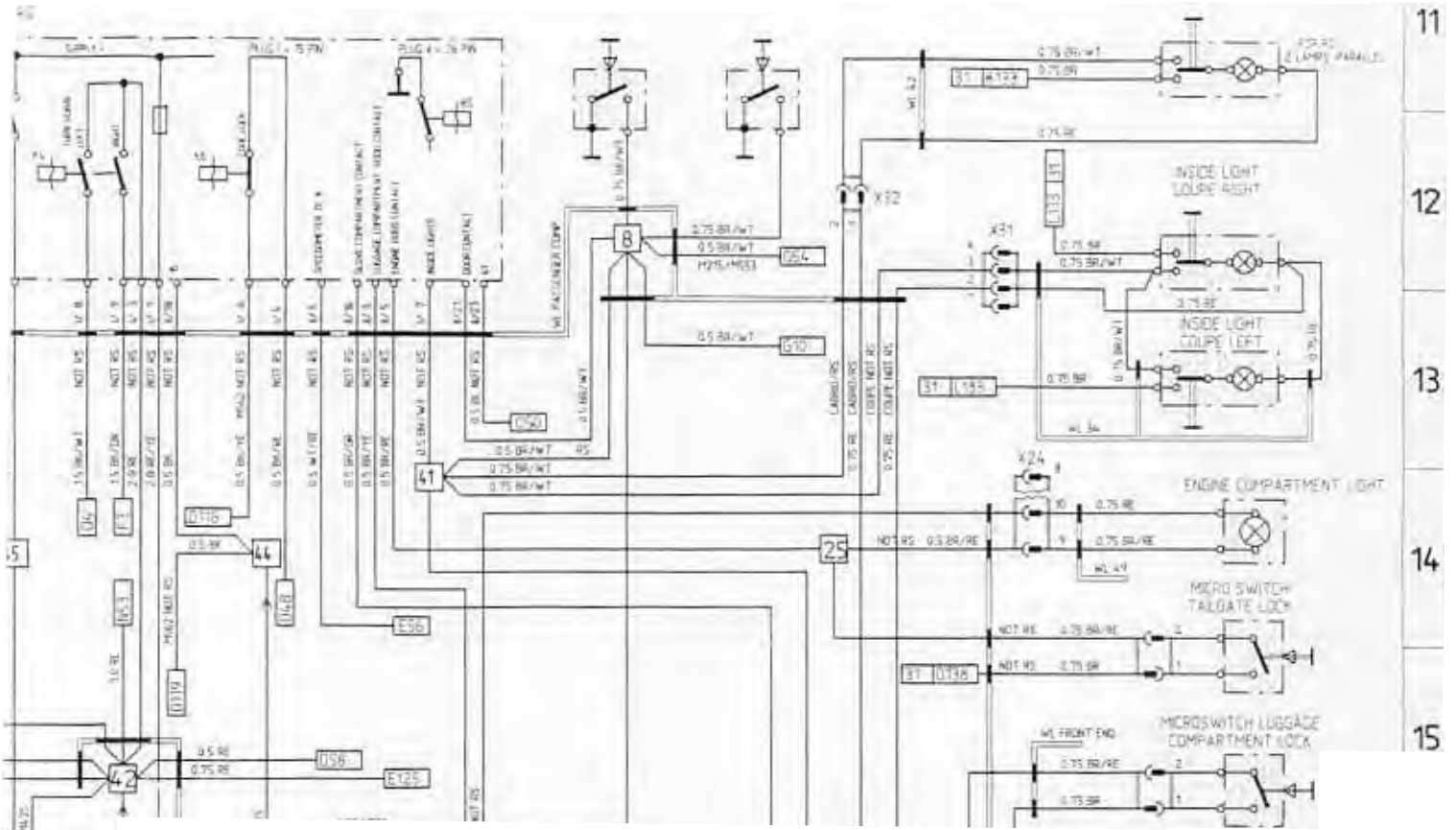
P

UNIT ALARM SYSTEM/CENTRAL LOCKING SYSTEM

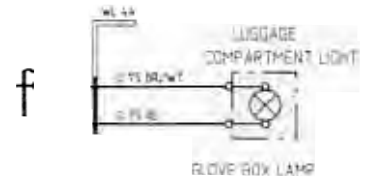
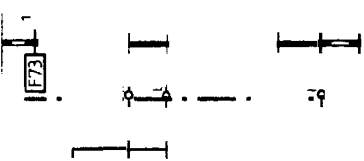
DOOR CONTACT SWITCH LEFT

DOOR CONTACT SWITCH RIGHT

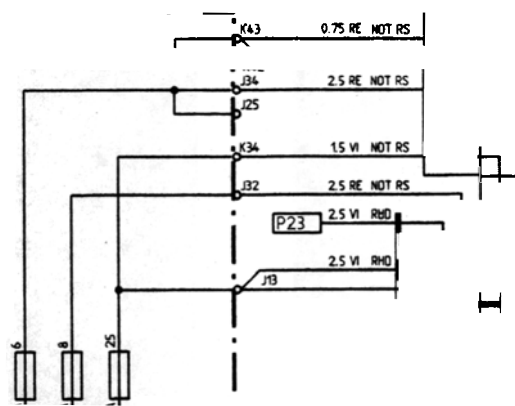
INSIDE LIGHTS CONVERTIBLE



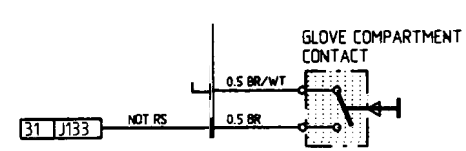
11  
12  
13  
14  
15



16



NOT RS



18

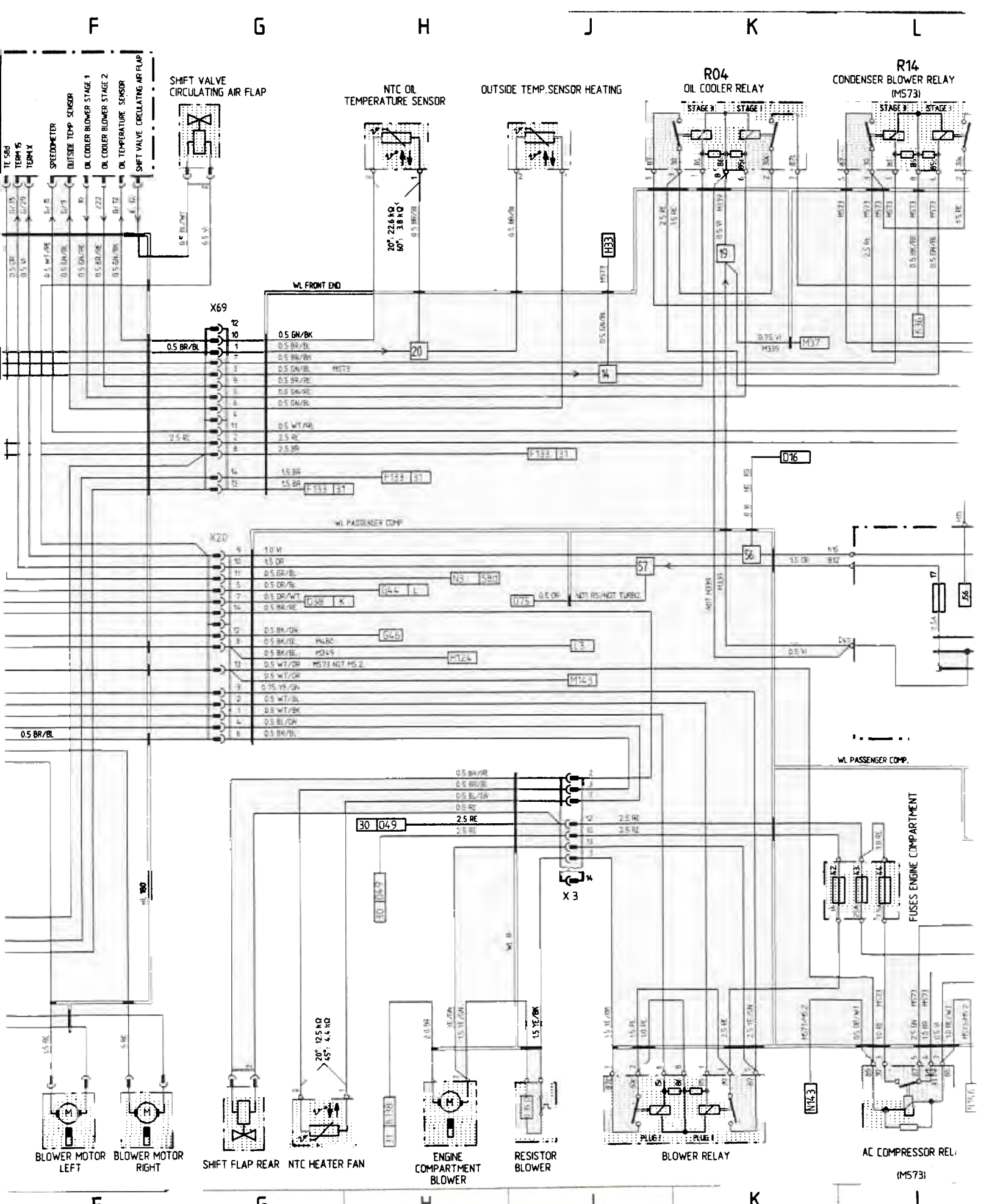
LAY  
IWER WINDOW  
SA: NORMALLY OPEN RELAY ONLY



19

CENTRAL ELECTRIC





F

G

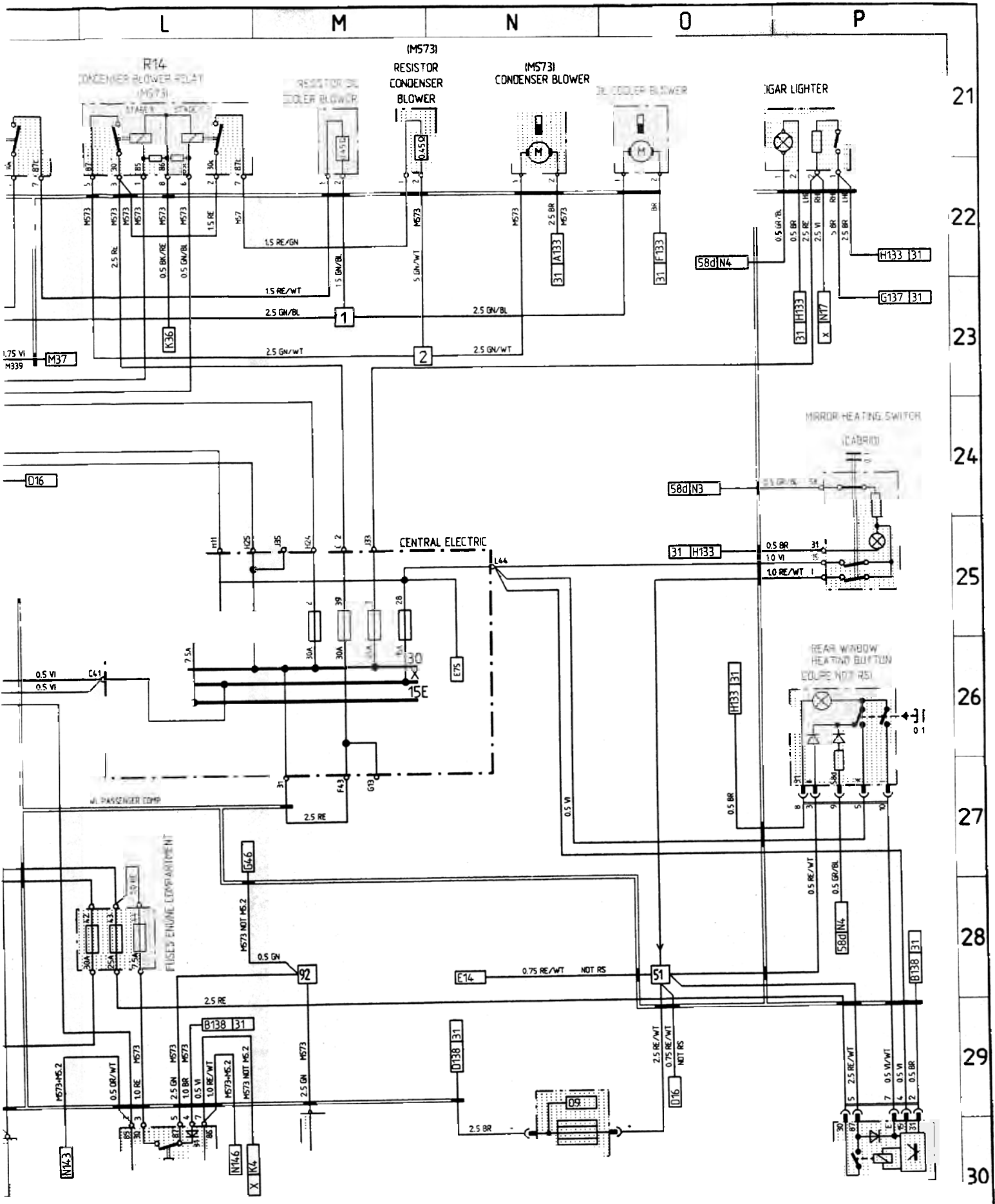
H

J

K

L

GR = GRFY    BR = BROWN    BL = BLUE    VI = VIOLE    PK



ABS

A

B

D

E

31

32

33

34

35

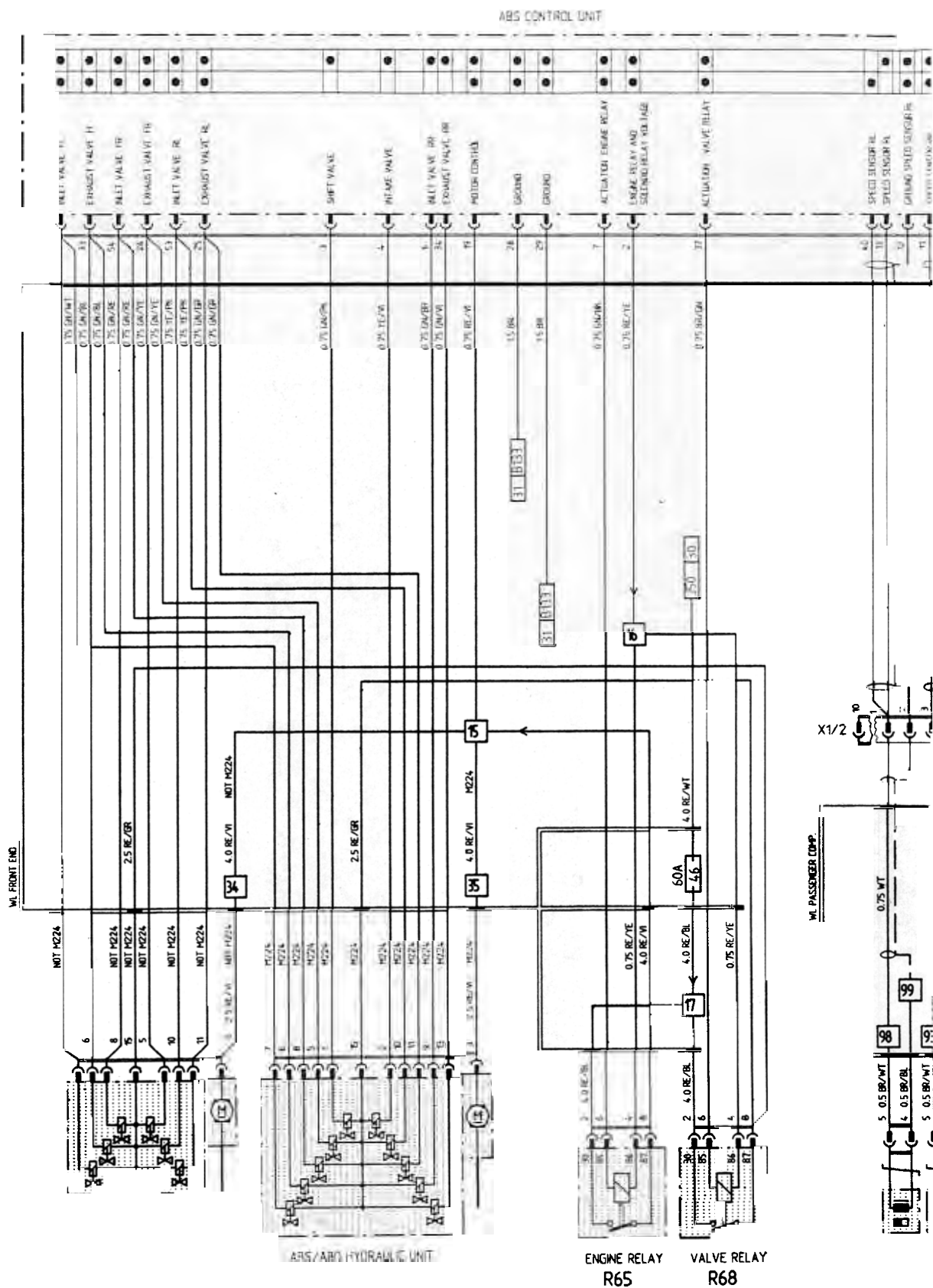
36

37

38

39

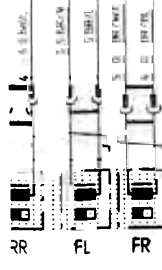
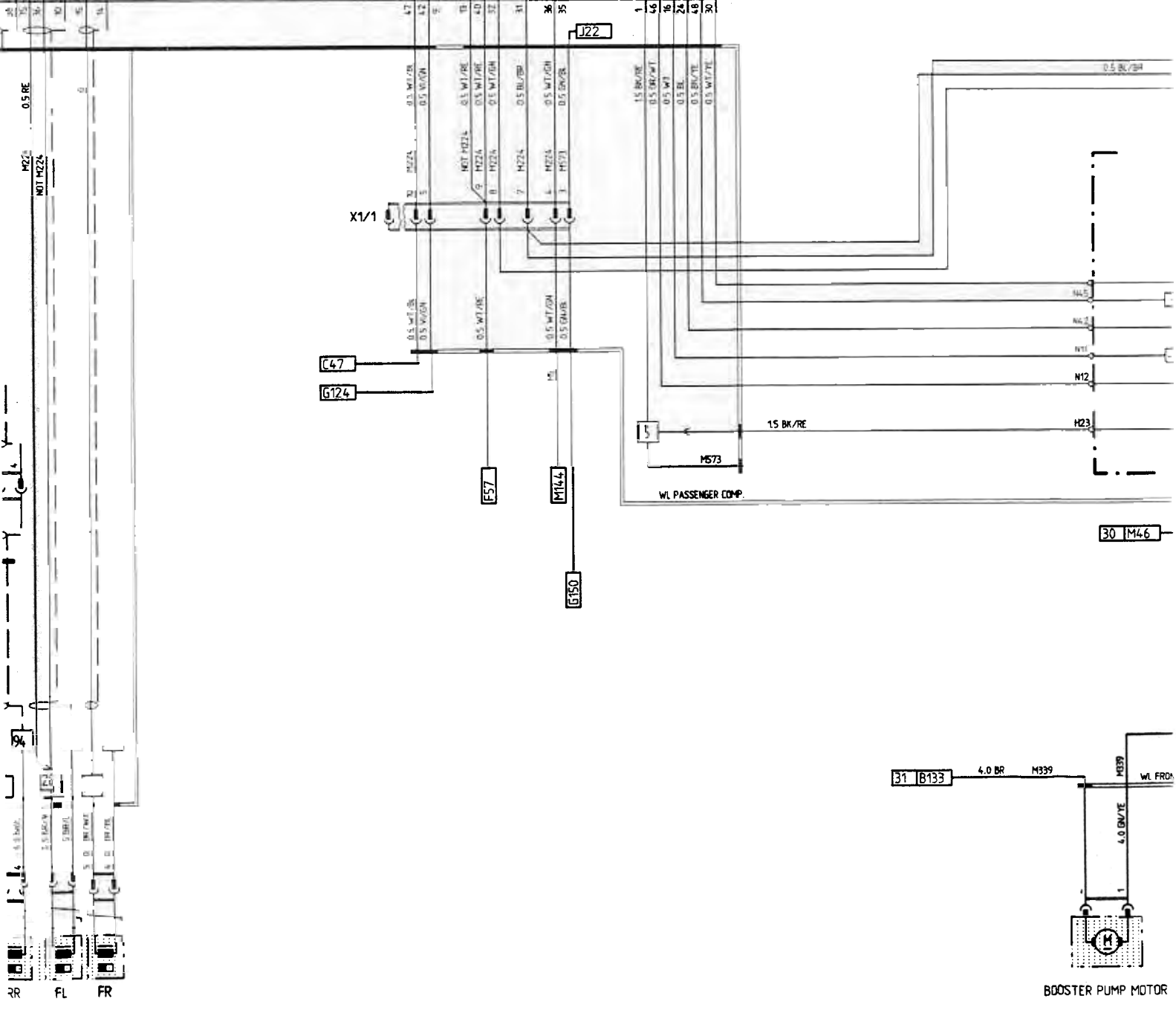
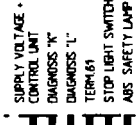
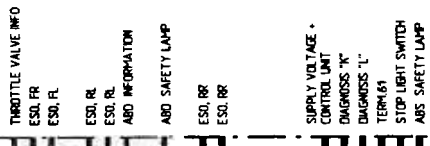
40





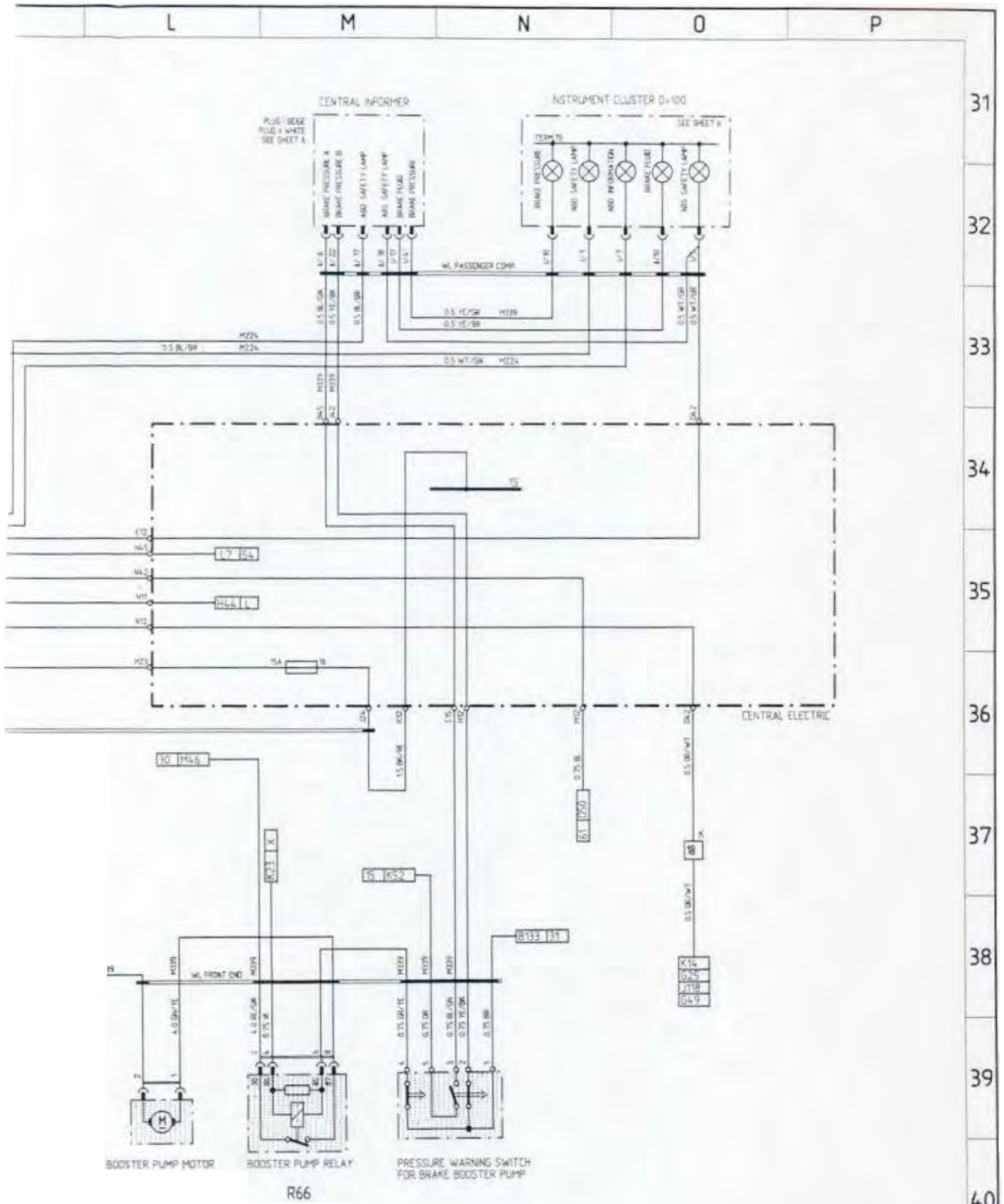
FWD OR ABD  
ABS ONLY

K



ED SENSOR

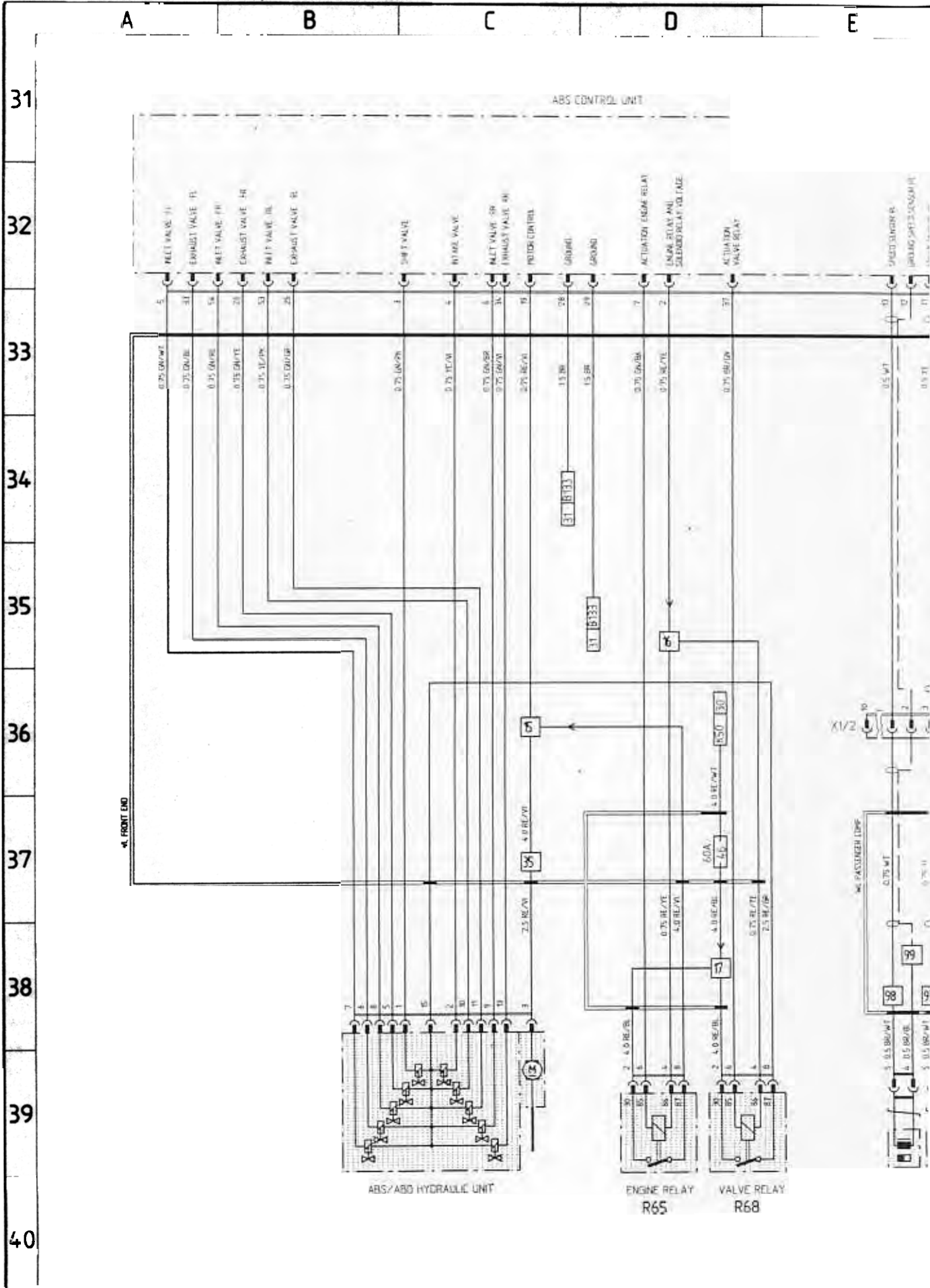
BOOSTER PUMP MOTOR

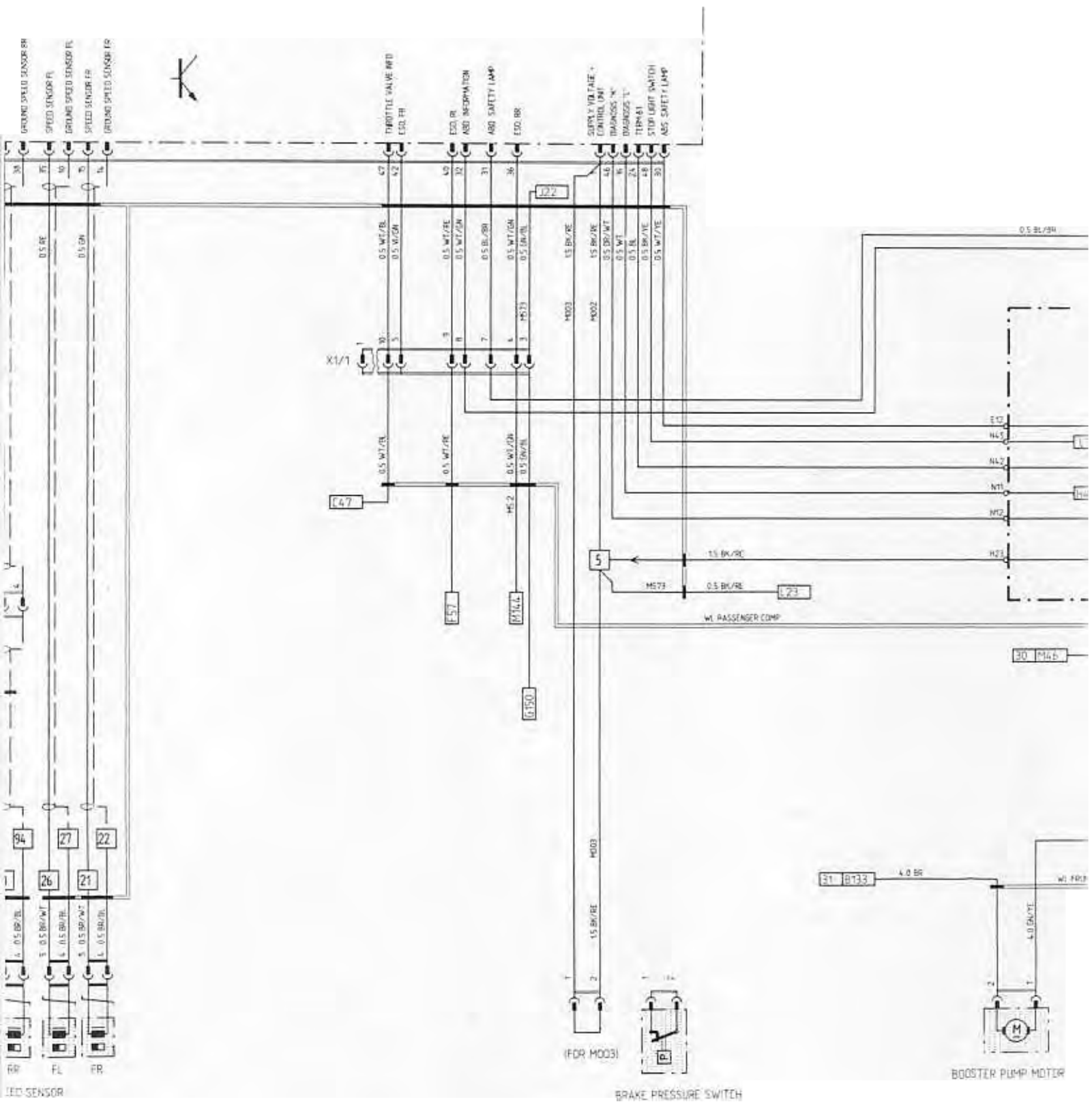


R66

# 911 Carrera (1993) MODEL 95/2 SHEET 4 B

ABS (RS)

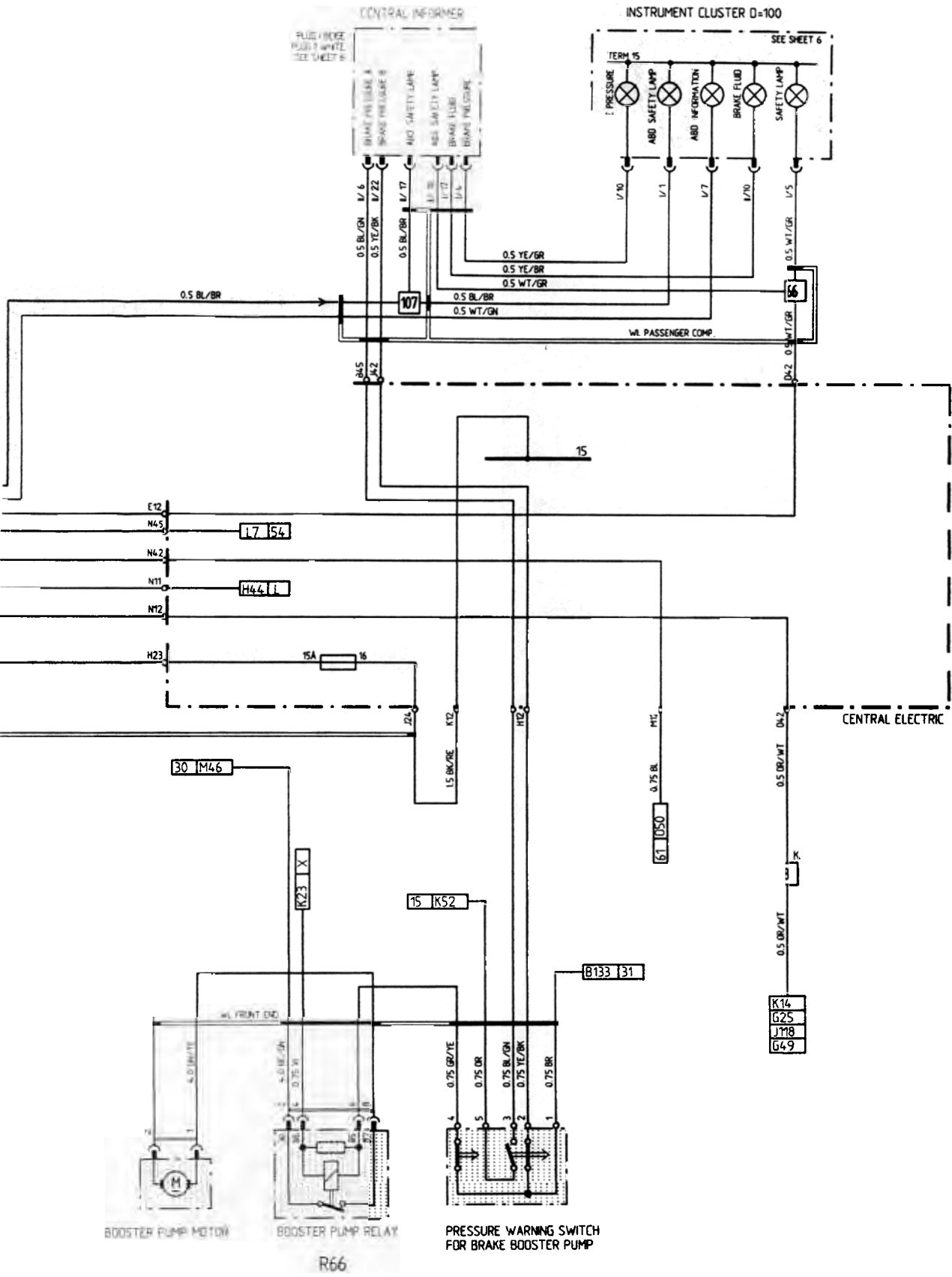




F	G	H	J	K	L
BK = BLACK	WT = WHITE	RE = RED	GN = GREEN	YE = YELLOW	GR = GREY
				BR = BROWN	BL = BLUE
					VI = VIOLET

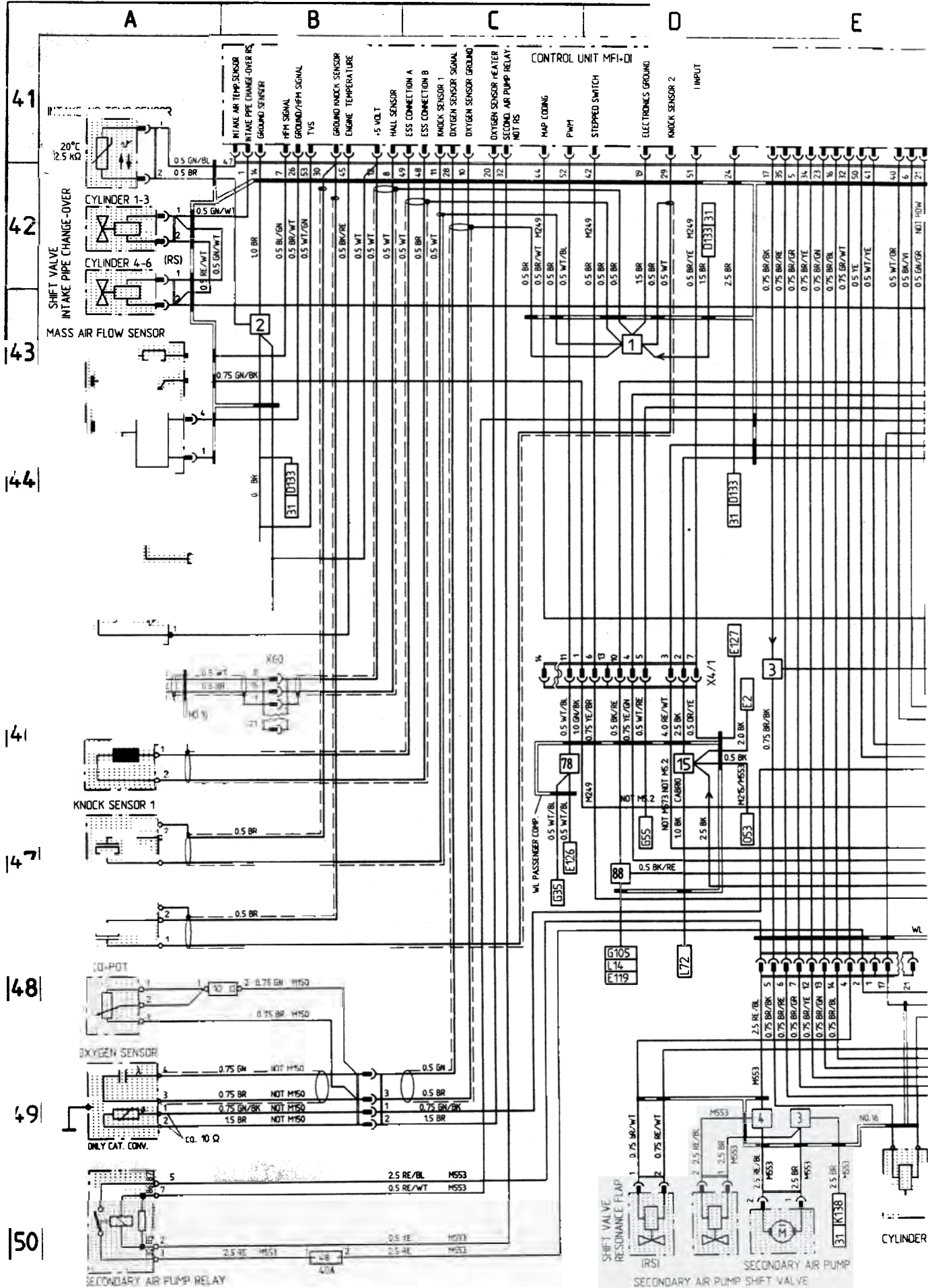
L M N O P

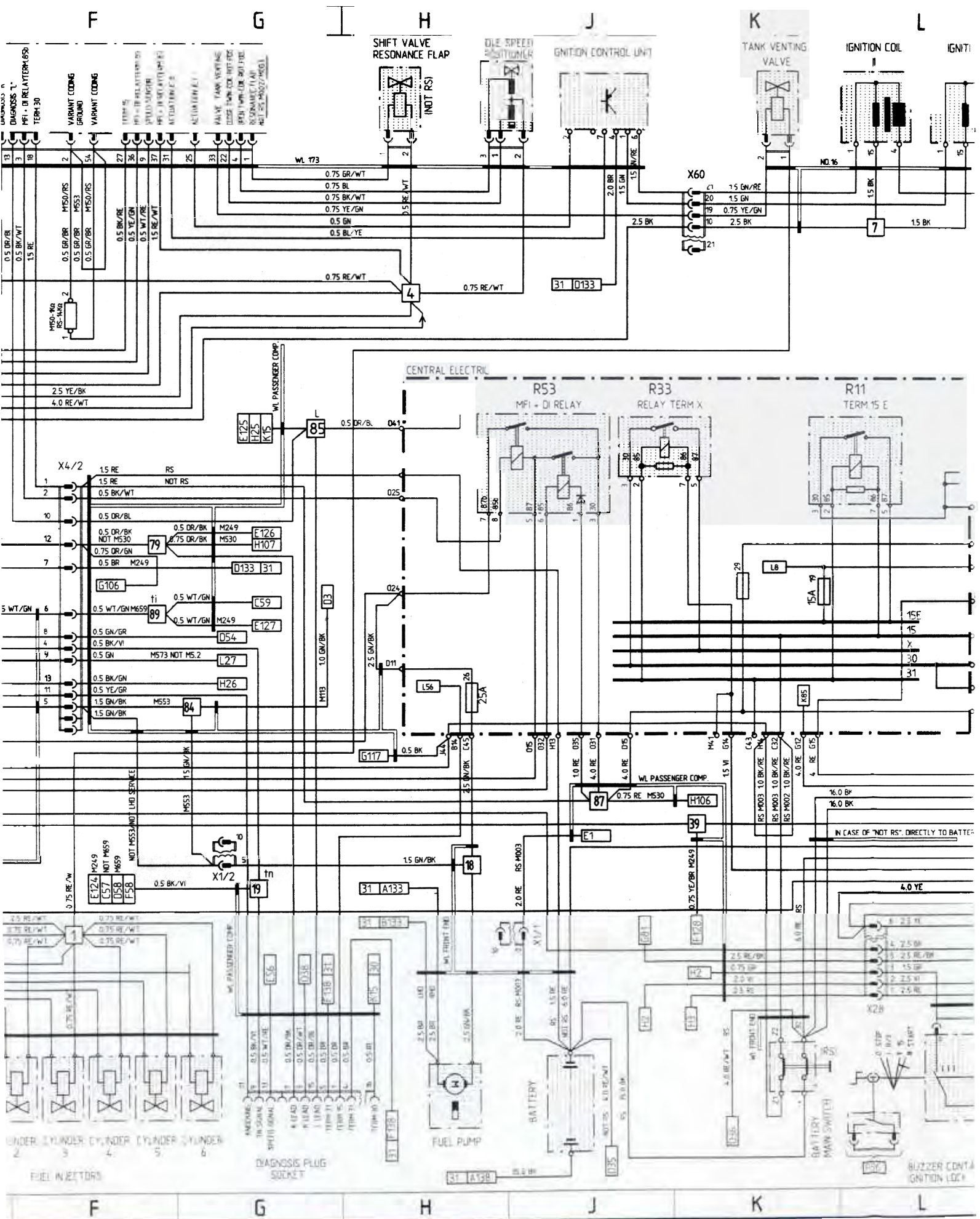
31  
32  
33  
34  
35  
36  
37  
38  
39  
40



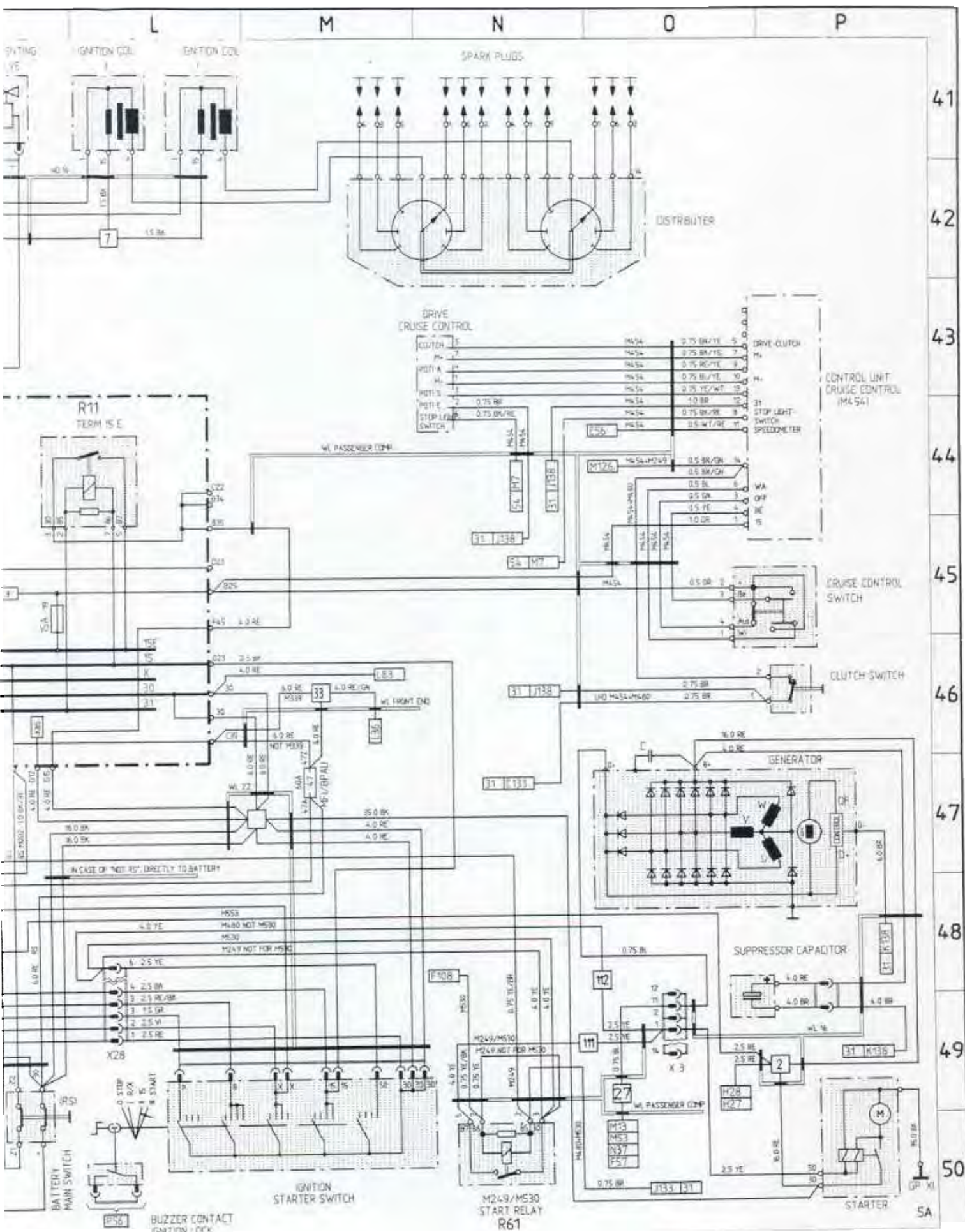
# 911 Carrera (1993) MODEL 95/2 SHEET 5 A

## ENGINE ELECTRICS M2.10, FUEL, IGNITION SYSTEM, CRUISE CONTROL





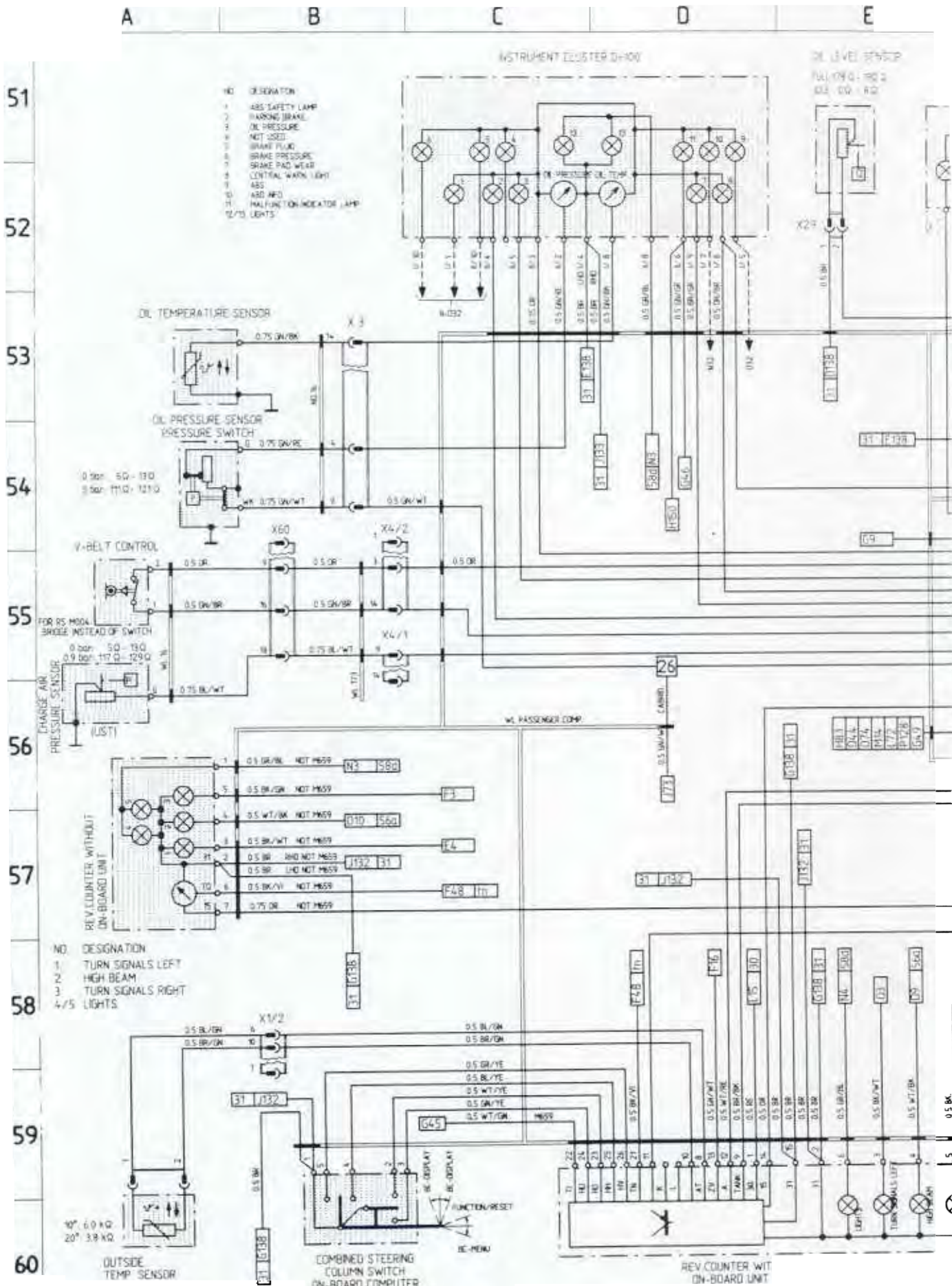
WHITE RE = RED GN = GREEN YELLOW GR = GREY BR = BROWN VIOLET





# 911 Carrera (1993) MODEL 95/2 SHEET 6

## INSTRUMENTS AND SENSOR



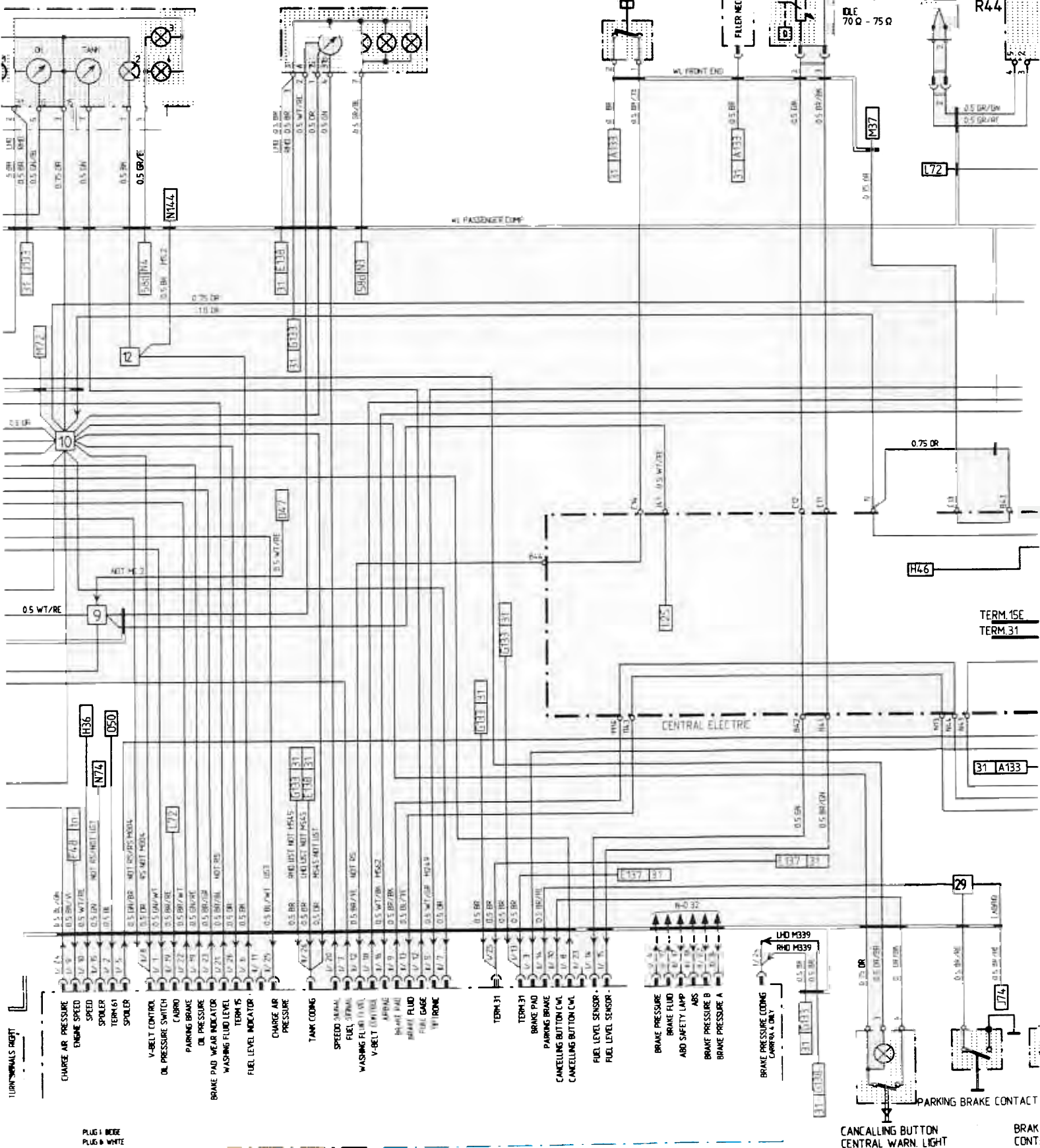
STRUMENT CLUSTER D=80  
 NO. DESIGNATION  
 1 WASHING FLUID LEVEL  
 2 FUEL LEVEL INDICATOR  
 3/4 LIGHTS

SPEEDOMETER

WASHING FLUID LEVEL SWITCH

FUEL TANK SENSOR  
 FULL 0.70 - 2.1Ω  
 OLE 70 Ω - 75 Ω

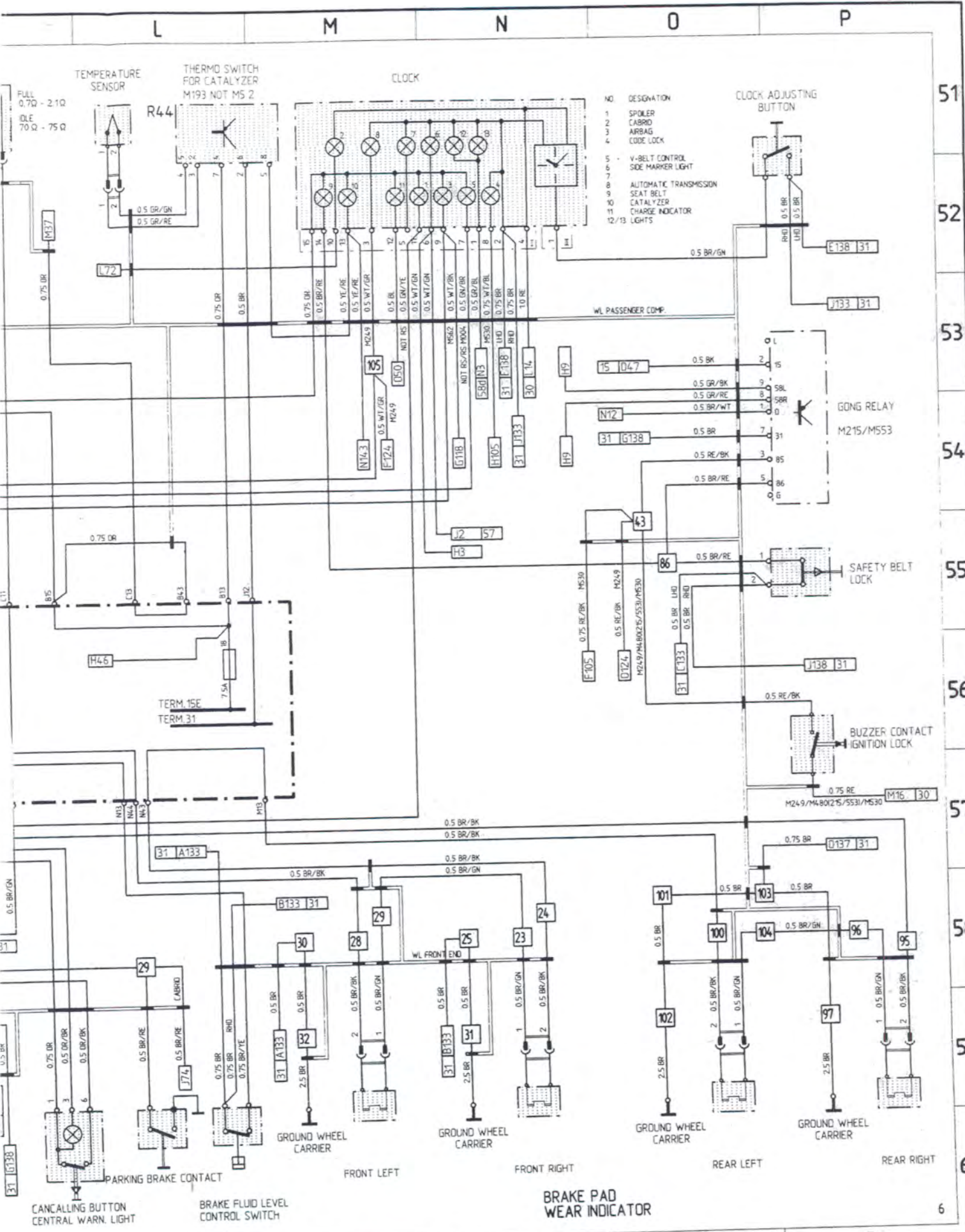
TEMPERATURE SENSOR  
 R44



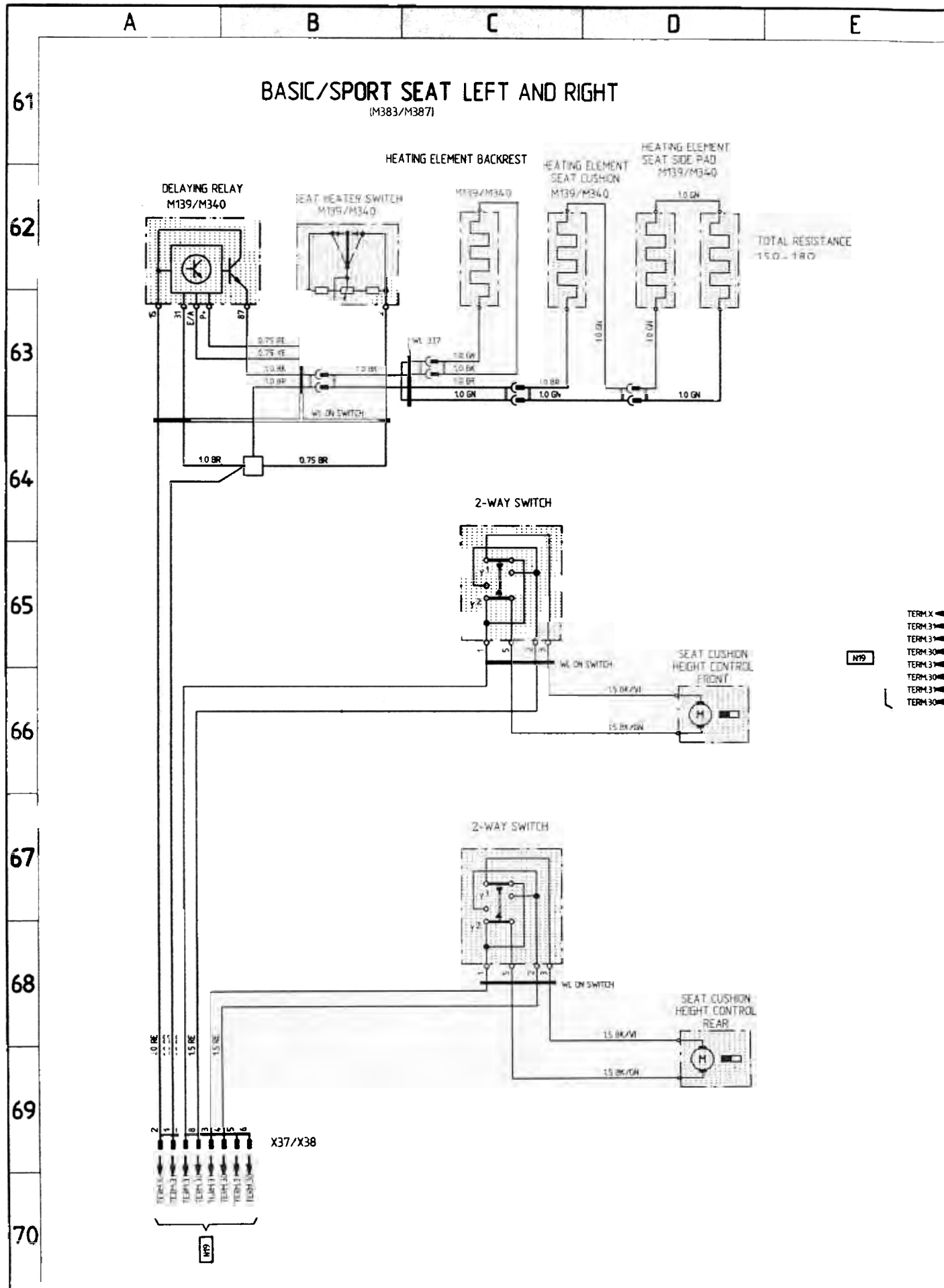
- TURN SIGNALS RIGHT
- U/1 0.5 BR/WH CHARGE AIR PRESSURE
  - U/2 0.5 WT/RE ENGINE SPEED
  - U/3 0.5 WT/RE SPEED
  - U/4 0.5 WT/RE SPIDER
  - U/5 0.5 WT/RE SPIDER
  - U/6 0.5 WT/RE SPIDER
  - U/7 0.5 WT/RE V-BELT CONTROL
  - U/8 0.5 WT/RE OIL PRESSURE SWITCH
  - U/9 0.5 WT/RE CABRIO
  - U/10 0.5 WT/RE PARKING BRAKE
  - U/11 0.5 WT/RE OIL PRESSURE
  - U/12 0.5 WT/RE BRAKE PAD WEAR INDICATOR
  - U/13 0.5 WT/RE WASHING FLUID LEVEL
  - U/14 0.5 WT/RE TEMPERATURE
  - U/15 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/16 0.5 WT/RE CHARGE AIR PRESSURE
  - U/17 0.5 WT/RE PRESSURE
  - U/18 0.5 WT/RE TANK CODING
  - U/19 0.5 WT/RE SPEED SERIAL
  - U/20 0.5 WT/RE FUEL SERIAL
  - U/21 0.5 WT/RE WASHING FLUID LEVEL
  - U/22 0.5 WT/RE V-BELT CONTROL
  - U/23 0.5 WT/RE BRAKE PAD
  - U/24 0.5 WT/RE BRAKE FLUID
  - U/25 0.5 WT/RE FUEL GAGE
  - U/26 0.5 WT/RE WASHING FLUID LEVEL
  - U/27 0.5 WT/RE TEMPERATURE
  - U/28 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/29 0.5 WT/RE CHARGE AIR PRESSURE
  - U/30 0.5 WT/RE PRESSURE
  - U/31 0.5 WT/RE TANK CODING
  - U/32 0.5 WT/RE SPEED SERIAL
  - U/33 0.5 WT/RE FUEL SERIAL
  - U/34 0.5 WT/RE WASHING FLUID LEVEL
  - U/35 0.5 WT/RE V-BELT CONTROL
  - U/36 0.5 WT/RE BRAKE PAD
  - U/37 0.5 WT/RE BRAKE FLUID
  - U/38 0.5 WT/RE FUEL GAGE
  - U/39 0.5 WT/RE WASHING FLUID LEVEL
  - U/40 0.5 WT/RE TEMPERATURE
  - U/41 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/42 0.5 WT/RE CHARGE AIR PRESSURE
  - U/43 0.5 WT/RE PRESSURE
  - U/44 0.5 WT/RE TANK CODING
  - U/45 0.5 WT/RE SPEED SERIAL
  - U/46 0.5 WT/RE FUEL SERIAL
  - U/47 0.5 WT/RE WASHING FLUID LEVEL
  - U/48 0.5 WT/RE V-BELT CONTROL
  - U/49 0.5 WT/RE BRAKE PAD
  - U/50 0.5 WT/RE BRAKE FLUID
  - U/51 0.5 WT/RE FUEL GAGE
  - U/52 0.5 WT/RE WASHING FLUID LEVEL
  - U/53 0.5 WT/RE TEMPERATURE
  - U/54 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/55 0.5 WT/RE CHARGE AIR PRESSURE
  - U/56 0.5 WT/RE PRESSURE
  - U/57 0.5 WT/RE TANK CODING
  - U/58 0.5 WT/RE SPEED SERIAL
  - U/59 0.5 WT/RE FUEL SERIAL
  - U/60 0.5 WT/RE WASHING FLUID LEVEL
  - U/61 0.5 WT/RE V-BELT CONTROL
  - U/62 0.5 WT/RE BRAKE PAD
  - U/63 0.5 WT/RE BRAKE FLUID
  - U/64 0.5 WT/RE FUEL GAGE
  - U/65 0.5 WT/RE WASHING FLUID LEVEL
  - U/66 0.5 WT/RE TEMPERATURE
  - U/67 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/68 0.5 WT/RE CHARGE AIR PRESSURE
  - U/69 0.5 WT/RE PRESSURE
  - U/70 0.5 WT/RE TANK CODING
  - U/71 0.5 WT/RE SPEED SERIAL
  - U/72 0.5 WT/RE FUEL SERIAL
  - U/73 0.5 WT/RE WASHING FLUID LEVEL
  - U/74 0.5 WT/RE V-BELT CONTROL
  - U/75 0.5 WT/RE BRAKE PAD
  - U/76 0.5 WT/RE BRAKE FLUID
  - U/77 0.5 WT/RE FUEL GAGE
  - U/78 0.5 WT/RE WASHING FLUID LEVEL
  - U/79 0.5 WT/RE TEMPERATURE
  - U/80 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/81 0.5 WT/RE CHARGE AIR PRESSURE
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  - U/88 0.5 WT/RE BRAKE PAD
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  - U/90 0.5 WT/RE FUEL GAGE
  - U/91 0.5 WT/RE WASHING FLUID LEVEL
  - U/92 0.5 WT/RE TEMPERATURE
  - U/93 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/94 0.5 WT/RE CHARGE AIR PRESSURE
  - U/95 0.5 WT/RE PRESSURE
  - U/96 0.5 WT/RE TANK CODING
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  - U/98 0.5 WT/RE FUEL SERIAL
  - U/99 0.5 WT/RE WASHING FLUID LEVEL
  - U/100 0.5 WT/RE V-BELT CONTROL
  - U/101 0.5 WT/RE BRAKE PAD
  - U/102 0.5 WT/RE BRAKE FLUID
  - U/103 0.5 WT/RE FUEL GAGE
  - U/104 0.5 WT/RE WASHING FLUID LEVEL
  - U/105 0.5 WT/RE TEMPERATURE
  - U/106 0.5 WT/RE FUEL LEVEL INDICATOR
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  - U/116 0.5 WT/RE FUEL GAGE
  - U/117 0.5 WT/RE WASHING FLUID LEVEL
  - U/118 0.5 WT/RE TEMPERATURE
  - U/119 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/120 0.5 WT/RE CHARGE AIR PRESSURE
  - U/121 0.5 WT/RE PRESSURE
  - U/122 0.5 WT/RE TANK CODING
  - U/123 0.5 WT/RE SPEED SERIAL
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  - U/125 0.5 WT/RE WASHING FLUID LEVEL
  - U/126 0.5 WT/RE V-BELT CONTROL
  - U/127 0.5 WT/RE BRAKE PAD
  - U/128 0.5 WT/RE BRAKE FLUID
  - U/129 0.5 WT/RE FUEL GAGE
  - U/130 0.5 WT/RE WASHING FLUID LEVEL
  - U/131 0.5 WT/RE TEMPERATURE
  - U/132 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/133 0.5 WT/RE CHARGE AIR PRESSURE
  - U/134 0.5 WT/RE PRESSURE
  - U/135 0.5 WT/RE TANK CODING
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  - U/139 0.5 WT/RE V-BELT CONTROL
  - U/140 0.5 WT/RE BRAKE PAD
  - U/141 0.5 WT/RE BRAKE FLUID
  - U/142 0.5 WT/RE FUEL GAGE
  - U/143 0.5 WT/RE WASHING FLUID LEVEL
  - U/144 0.5 WT/RE TEMPERATURE
  - U/145 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/146 0.5 WT/RE CHARGE AIR PRESSURE
  - U/147 0.5 WT/RE PRESSURE
  - U/148 0.5 WT/RE TANK CODING
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  - U/152 0.5 WT/RE V-BELT CONTROL
  - U/153 0.5 WT/RE BRAKE PAD
  - U/154 0.5 WT/RE BRAKE FLUID
  - U/155 0.5 WT/RE FUEL GAGE
  - U/156 0.5 WT/RE WASHING FLUID LEVEL
  - U/157 0.5 WT/RE TEMPERATURE
  - U/158 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/159 0.5 WT/RE CHARGE AIR PRESSURE
  - U/160 0.5 WT/RE PRESSURE
  - U/161 0.5 WT/RE TANK CODING
  - U/162 0.5 WT/RE SPEED SERIAL
  - U/163 0.5 WT/RE FUEL SERIAL
  - U/164 0.5 WT/RE WASHING FLUID LEVEL
  - U/165 0.5 WT/RE V-BELT CONTROL
  - U/166 0.5 WT/RE BRAKE PAD
  - U/167 0.5 WT/RE BRAKE FLUID
  - U/168 0.5 WT/RE FUEL GAGE
  - U/169 0.5 WT/RE WASHING FLUID LEVEL
  - U/170 0.5 WT/RE TEMPERATURE
  - U/171 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/172 0.5 WT/RE CHARGE AIR PRESSURE
  - U/173 0.5 WT/RE PRESSURE
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  - U/176 0.5 WT/RE FUEL SERIAL
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  - U/178 0.5 WT/RE V-BELT CONTROL
  - U/179 0.5 WT/RE BRAKE PAD
  - U/180 0.5 WT/RE BRAKE FLUID
  - U/181 0.5 WT/RE FUEL GAGE
  - U/182 0.5 WT/RE WASHING FLUID LEVEL
  - U/183 0.5 WT/RE TEMPERATURE
  - U/184 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/185 0.5 WT/RE CHARGE AIR PRESSURE
  - U/186 0.5 WT/RE PRESSURE
  - U/187 0.5 WT/RE TANK CODING
  - U/188 0.5 WT/RE SPEED SERIAL
  - U/189 0.5 WT/RE FUEL SERIAL
  - U/190 0.5 WT/RE WASHING FLUID LEVEL
  - U/191 0.5 WT/RE V-BELT CONTROL
  - U/192 0.5 WT/RE BRAKE PAD
  - U/193 0.5 WT/RE BRAKE FLUID
  - U/194 0.5 WT/RE FUEL GAGE
  - U/195 0.5 WT/RE WASHING FLUID LEVEL
  - U/196 0.5 WT/RE TEMPERATURE
  - U/197 0.5 WT/RE FUEL LEVEL INDICATOR
  - U/198 0.5 WT/RE CHARGE AIR PRESSURE
  - U/199 0.5 WT/RE PRESSURE
  - U/200 0.5 WT/RE TANK CODING

PLUG 1 BLUE  
 PLUG 2 WHITE

CENTRAL INFORMER



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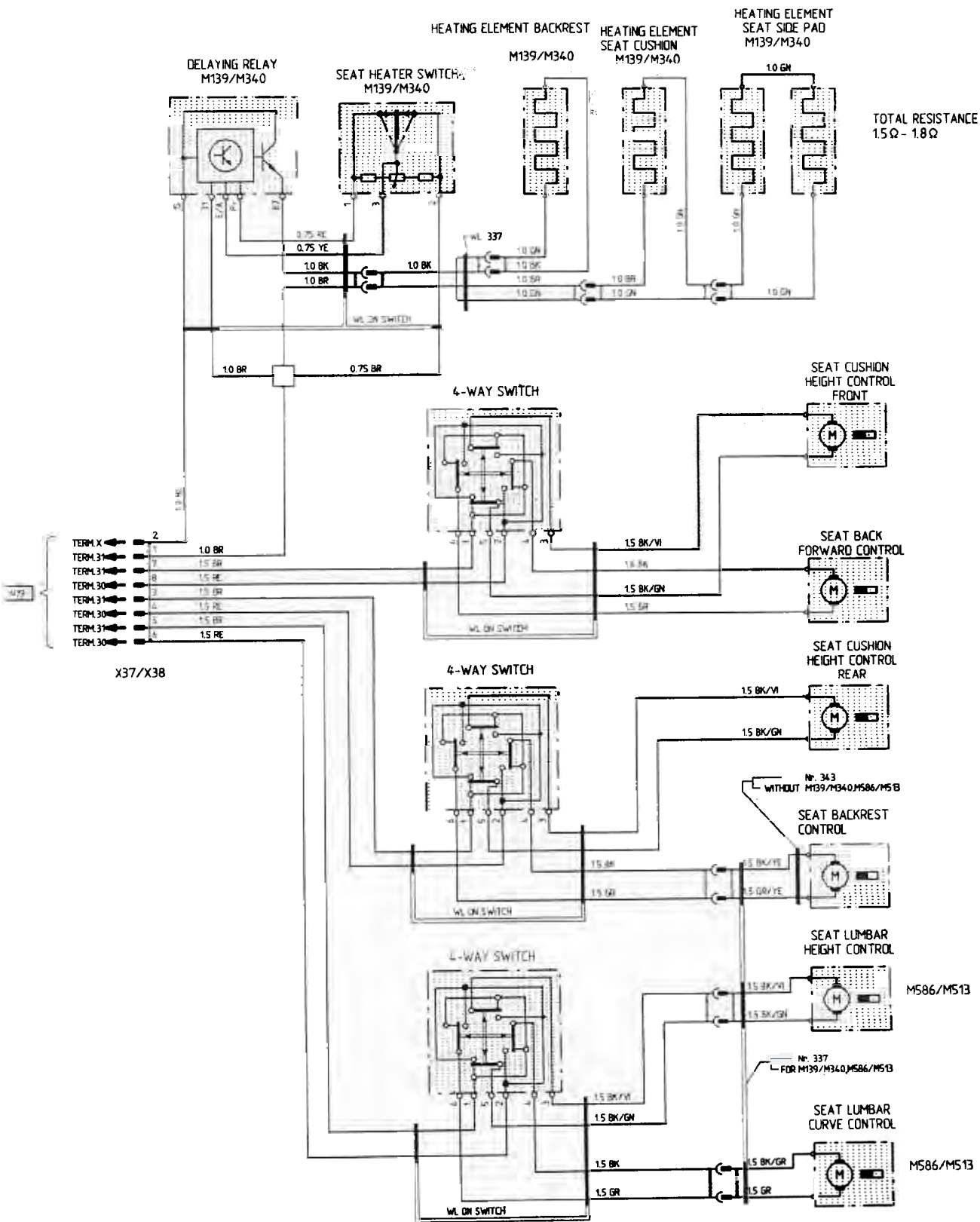
H

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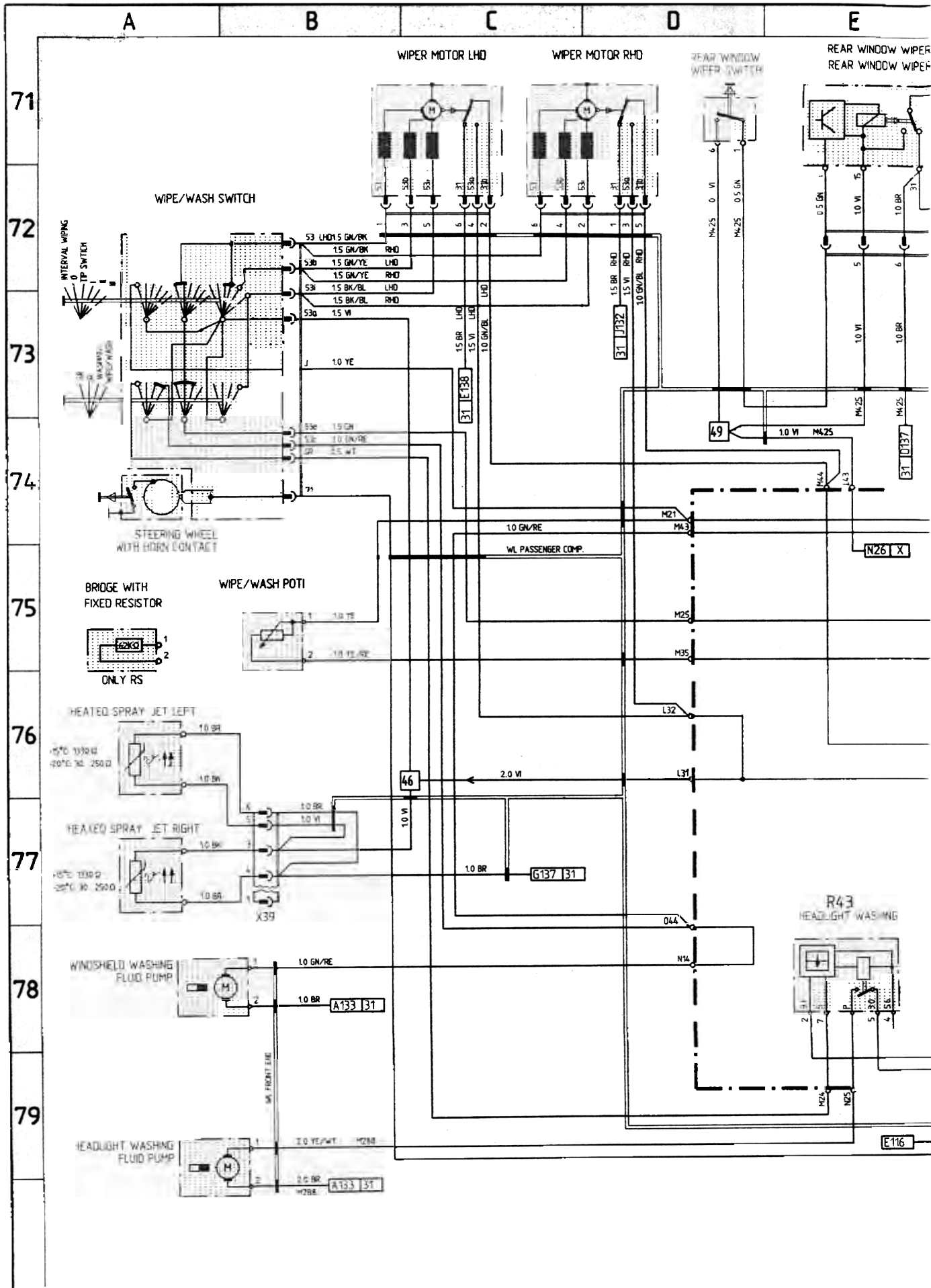
COMFORT SEAT LEFT AND RIGHT  
(M437, M438)

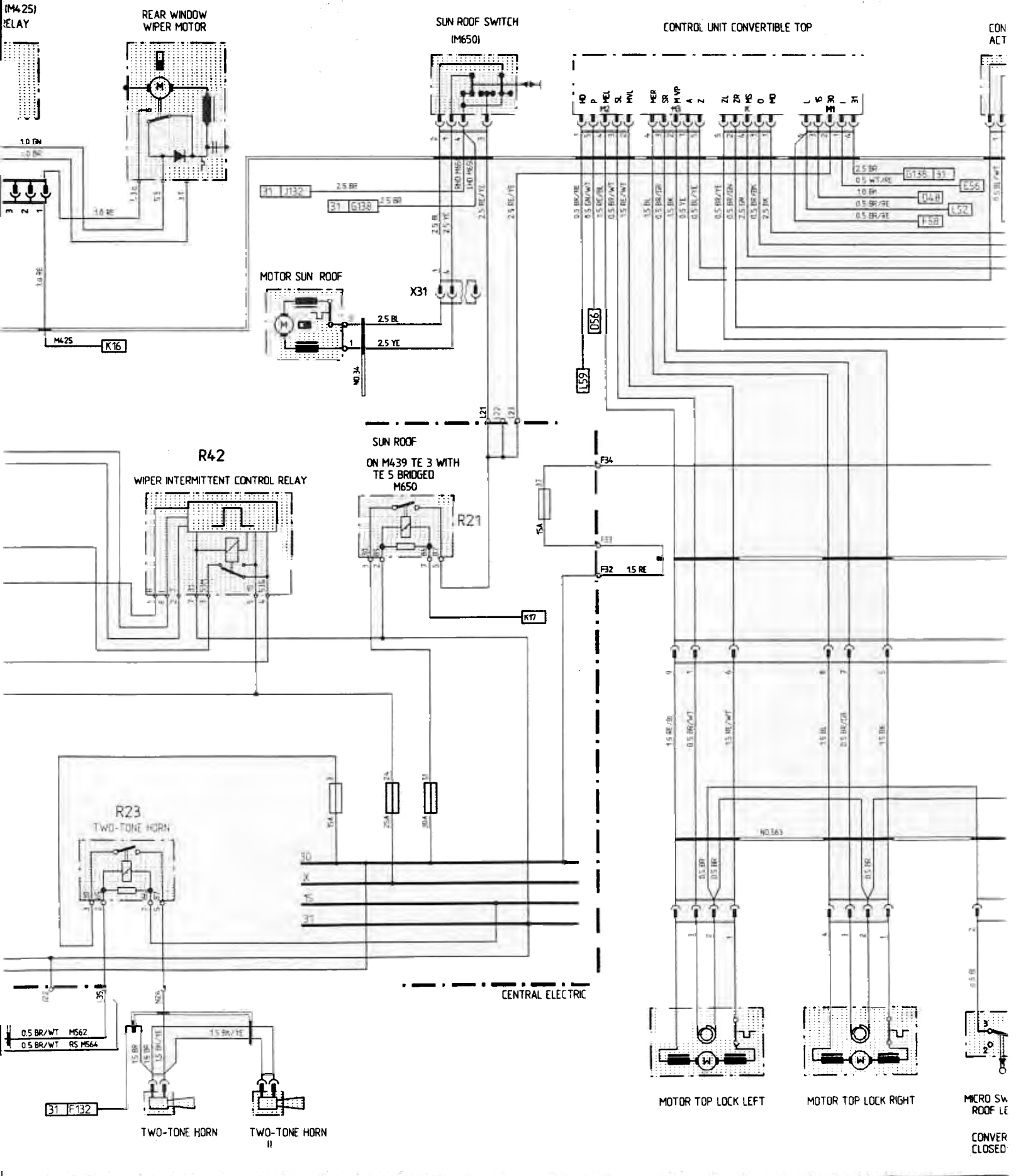
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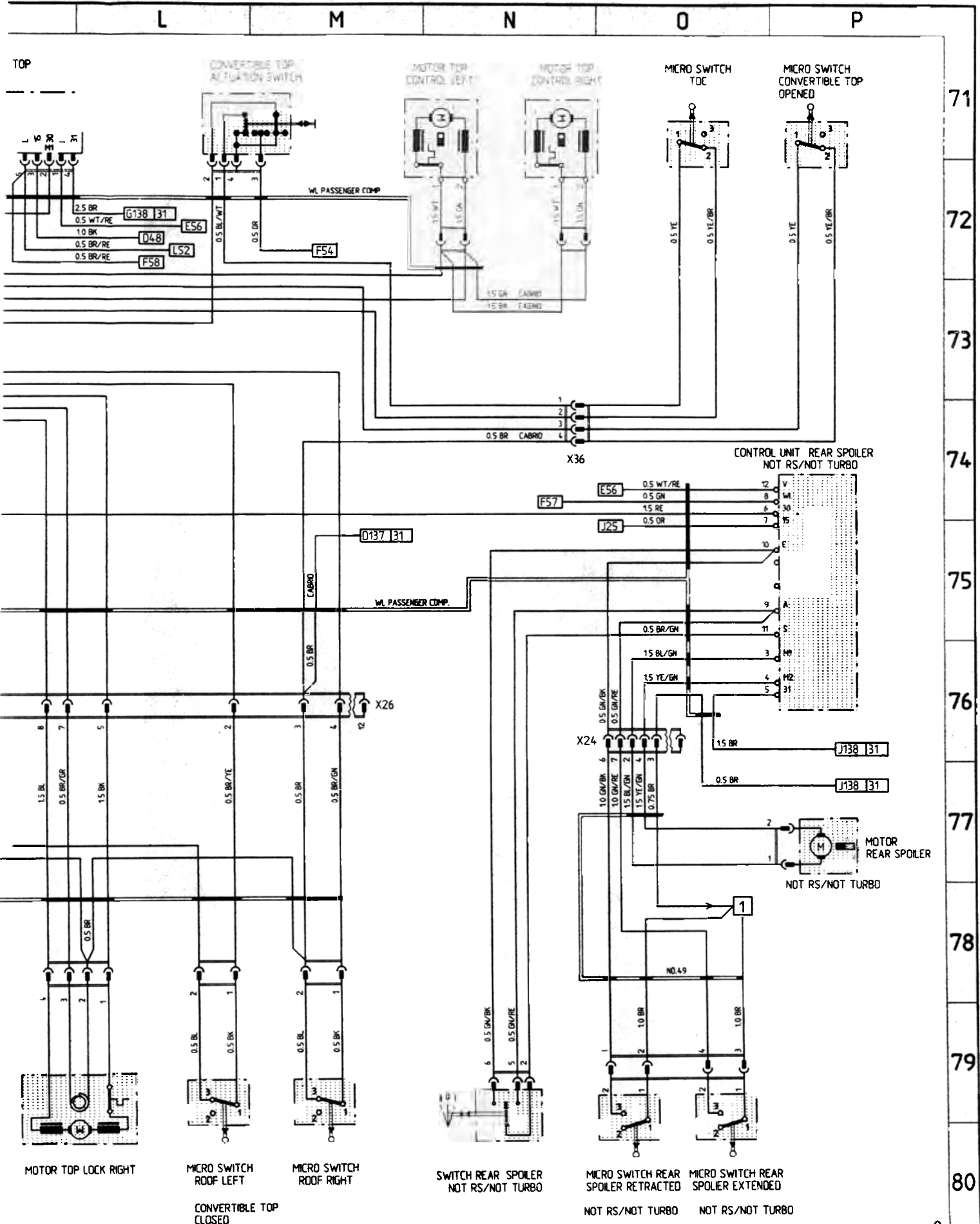


# 911 Carrera (1993) MODEL 95/2 SHEET 8

REAR SPOILER, TWO-TONE HORNS, WIPE- AND WASH CLEANERS, SUN ROOF, CONVERTIBLE TOP







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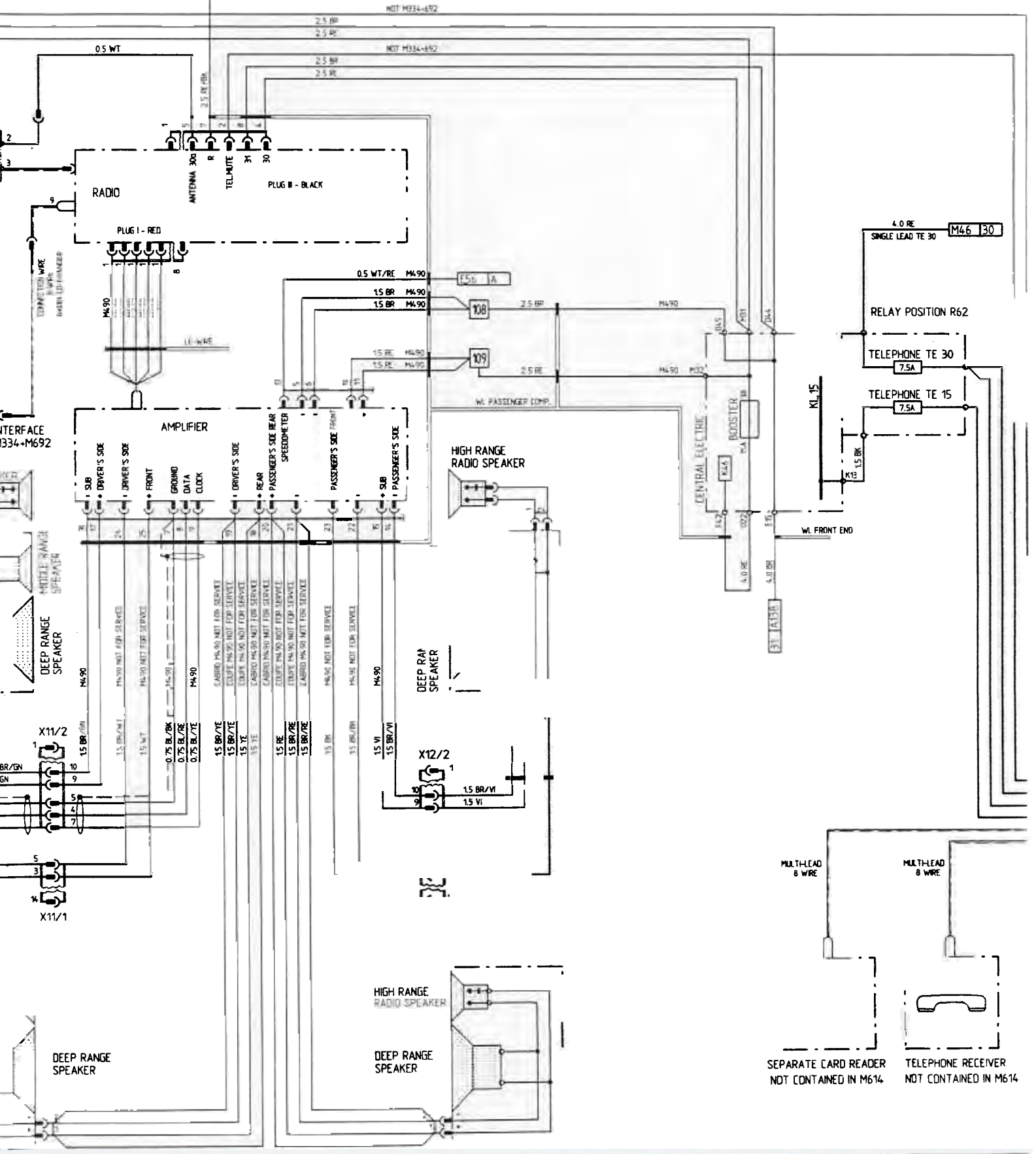
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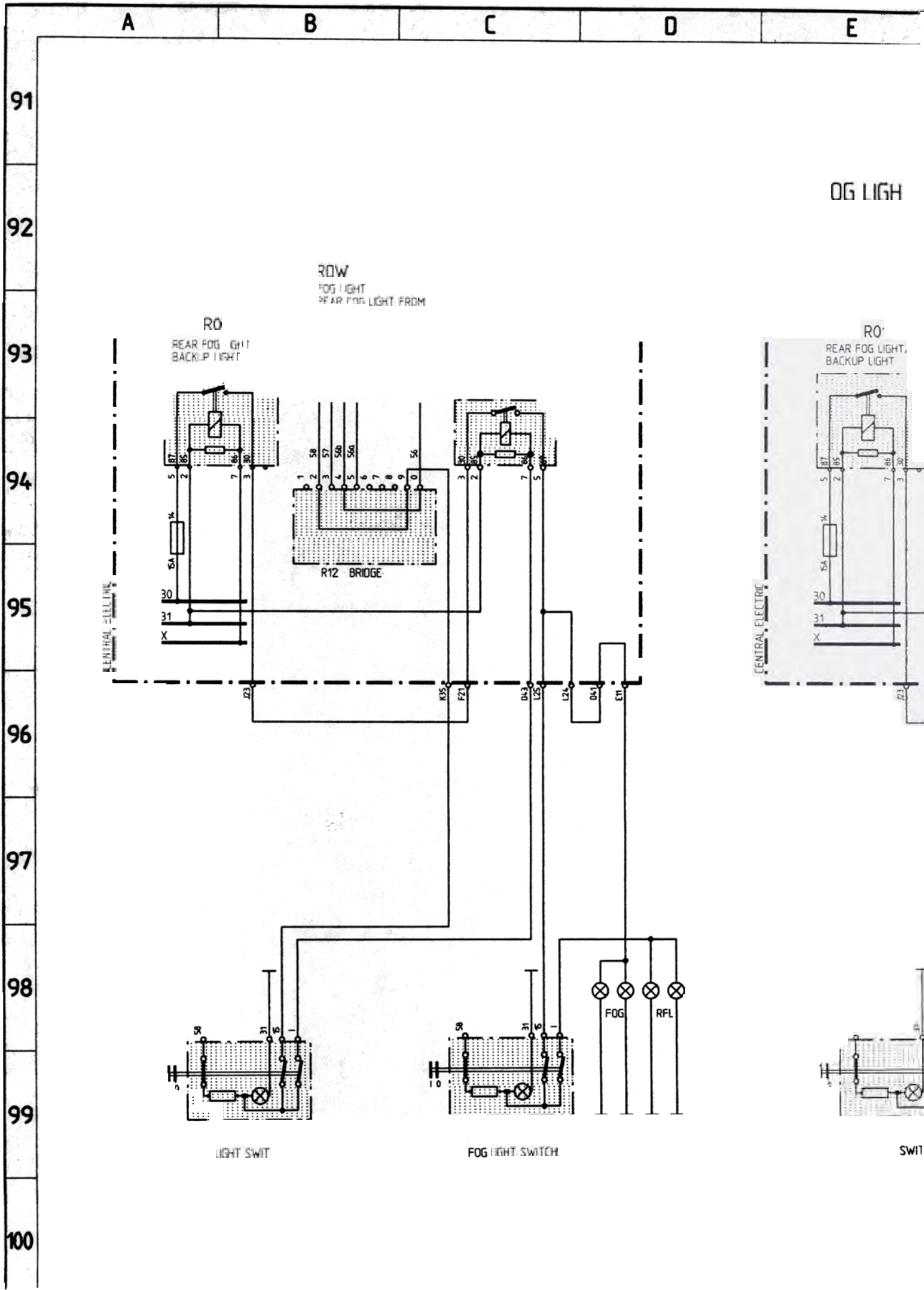


RADIO AND AUDIO OPTION PACK



PK = PINK      WT = WHITE      RE = RED      GN = GREEN      YF = YELLOW      BR = BROWN      BL = BLUE      VI = VIOLET      PK = PINK

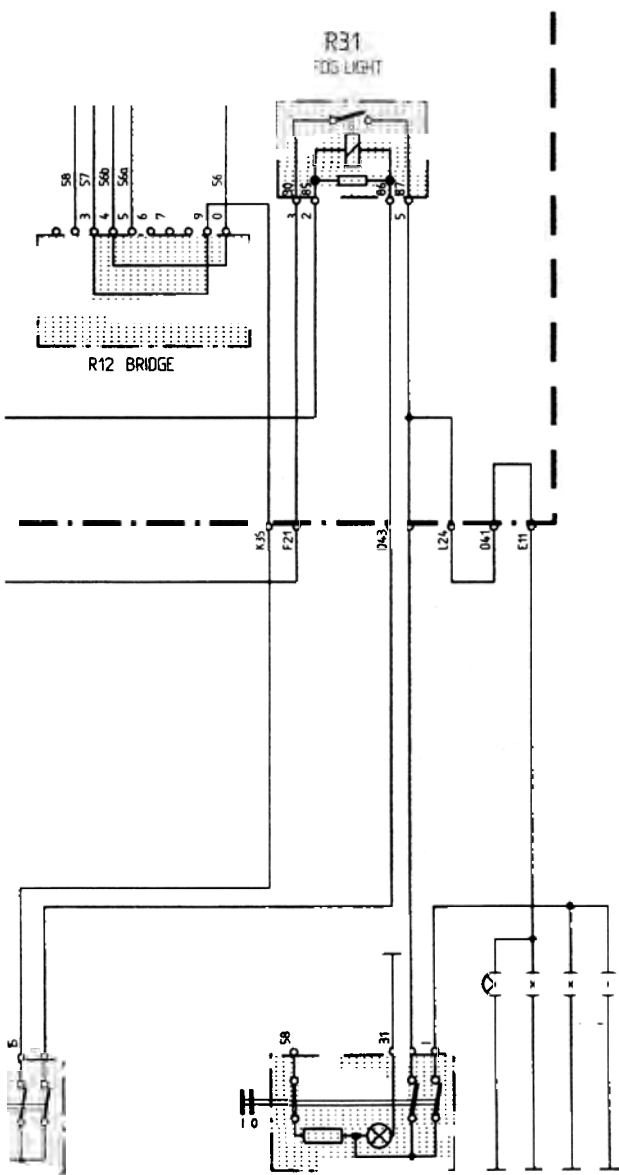




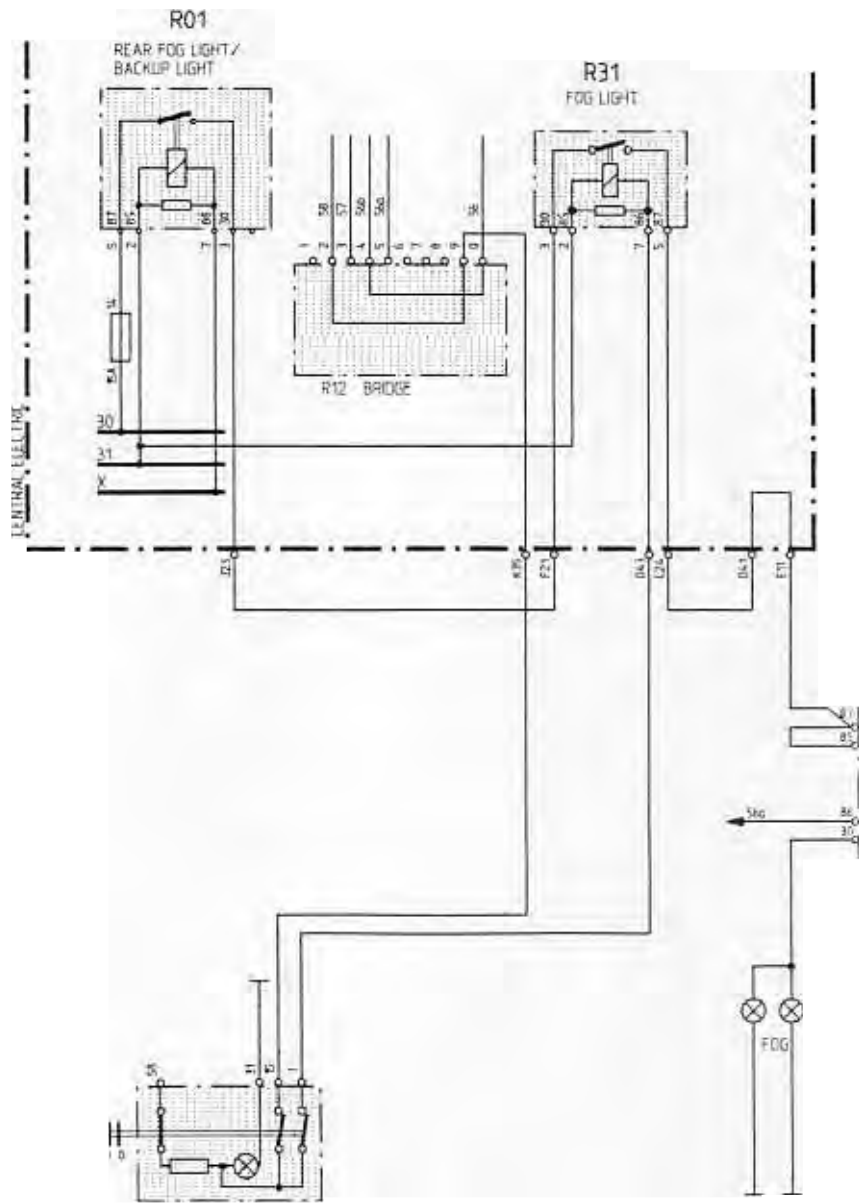
# AND REAR FOG LIGHT-WIRINGS

**M487-NORWAY**  
 FOG LIGHT + REAR FOG LIGHT  
 ONLY WITH 57

**M553-USA**  
 FOG LIGHT WITH 56b



REAR FOG LIGHT SWITCH



FOG LIGHT SWITCH

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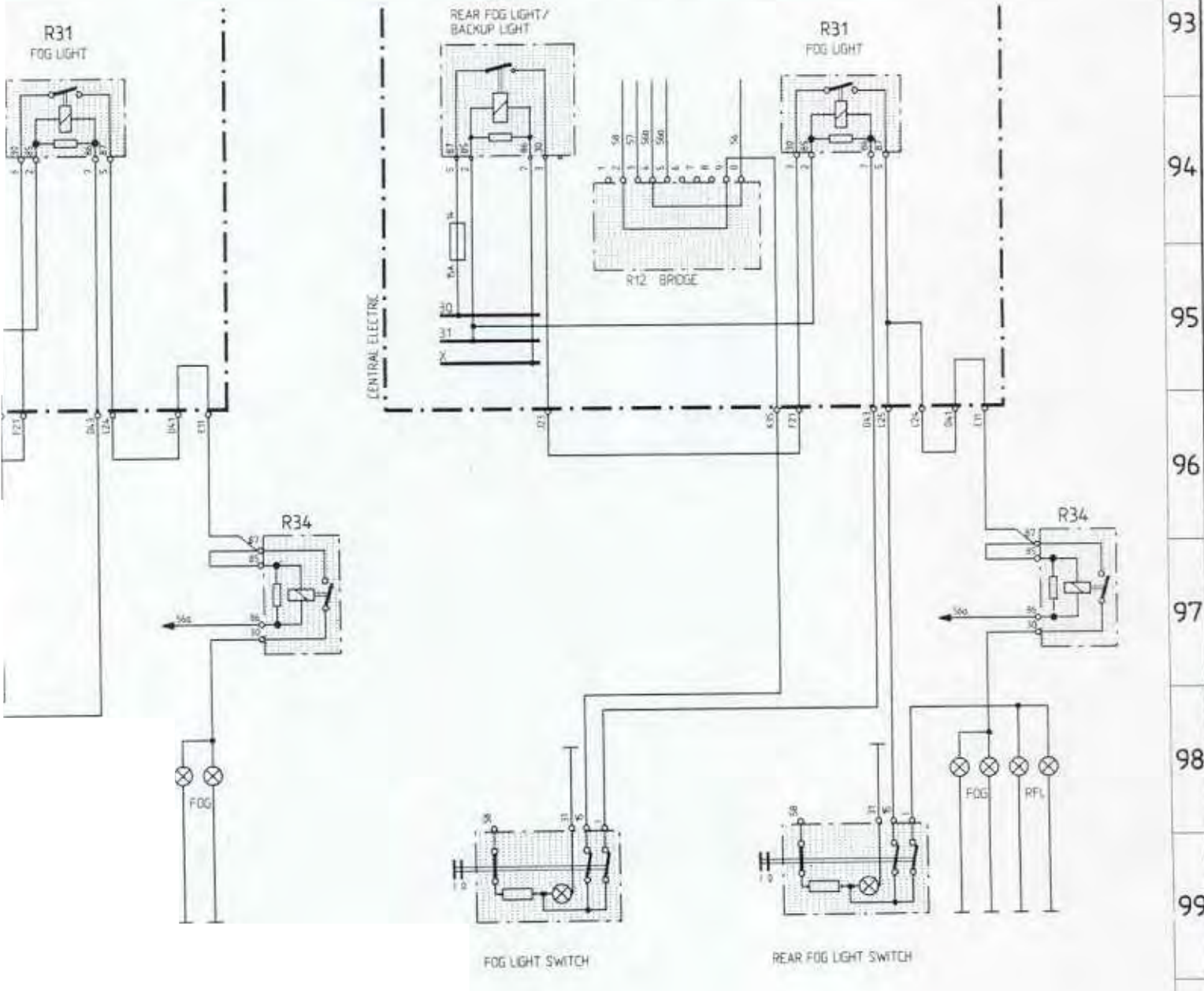
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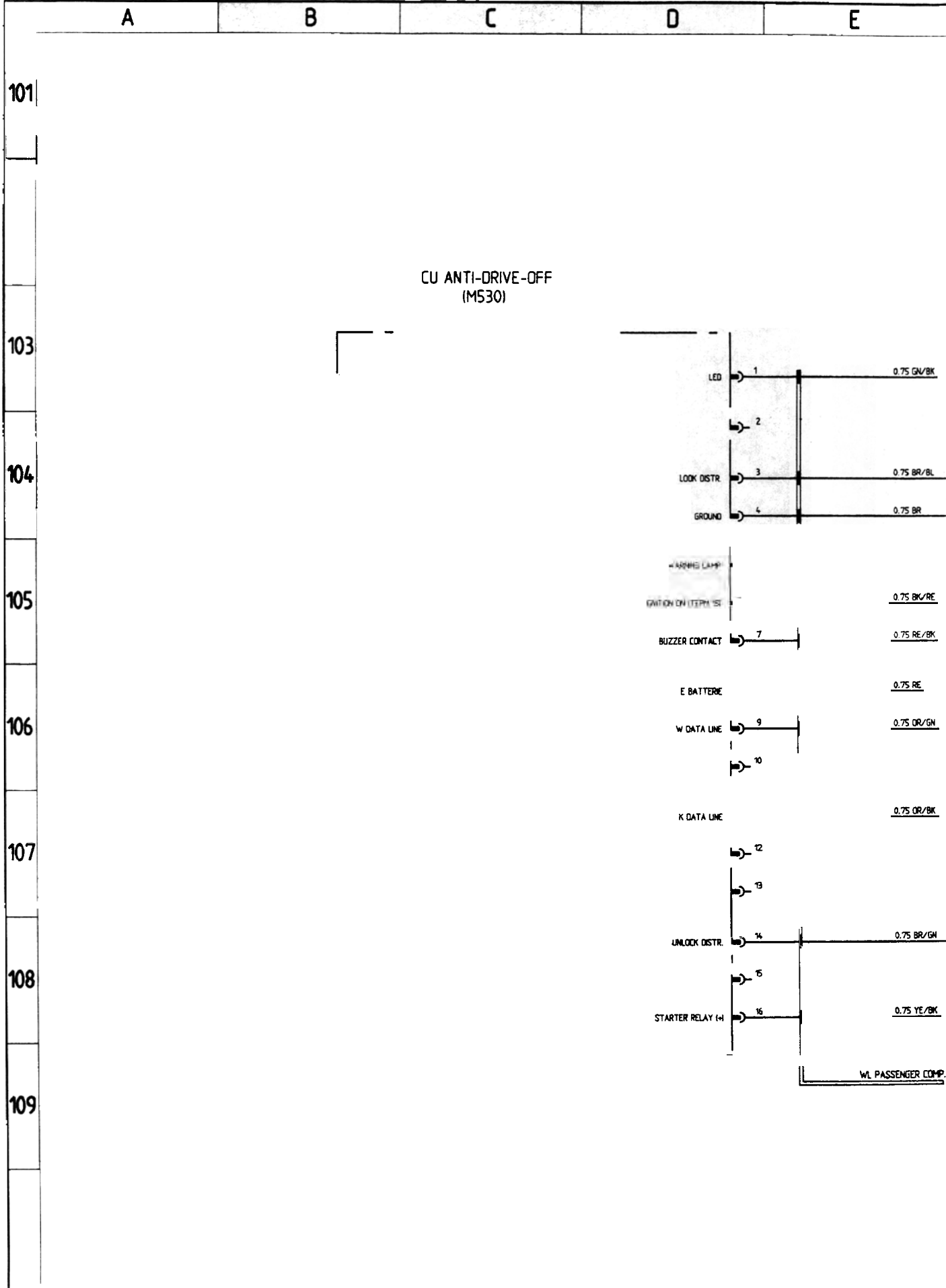
100

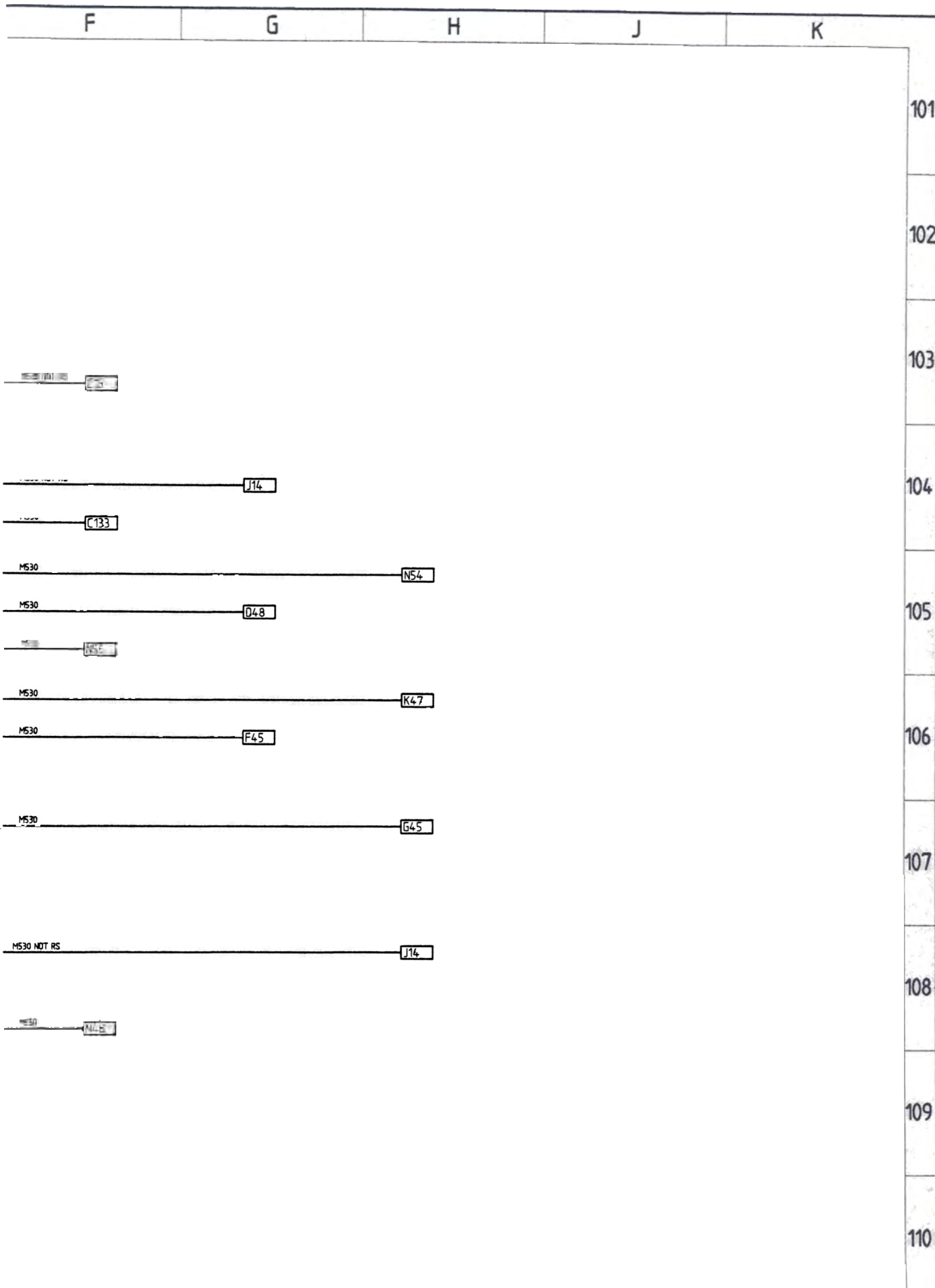
M193 JAPAN  
FOG LIGHT WITH 56b - 57  
RFL AS DP 58



FOG LIGHT SWITCH

REAR FOG LIGHT SWITCH

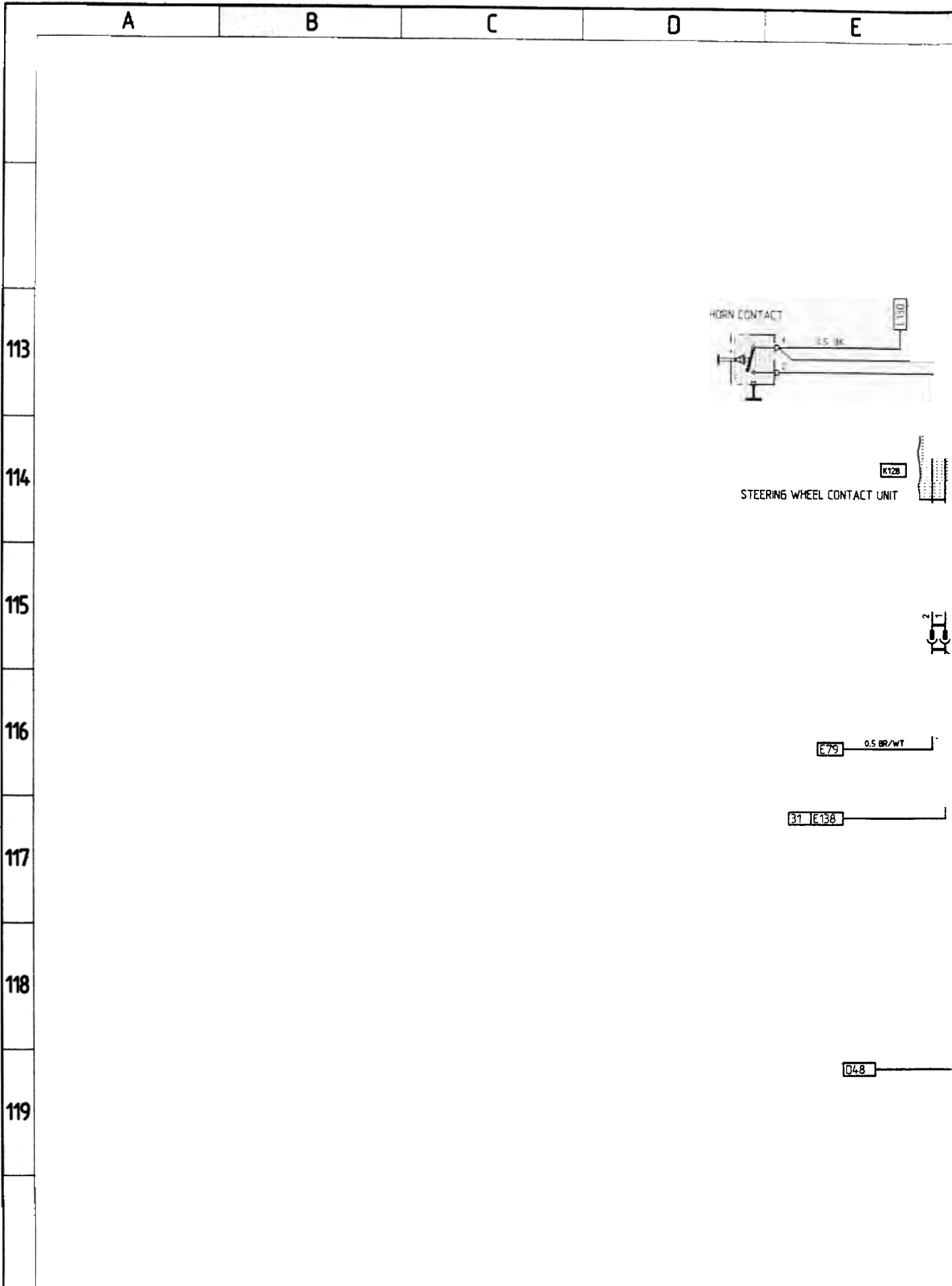


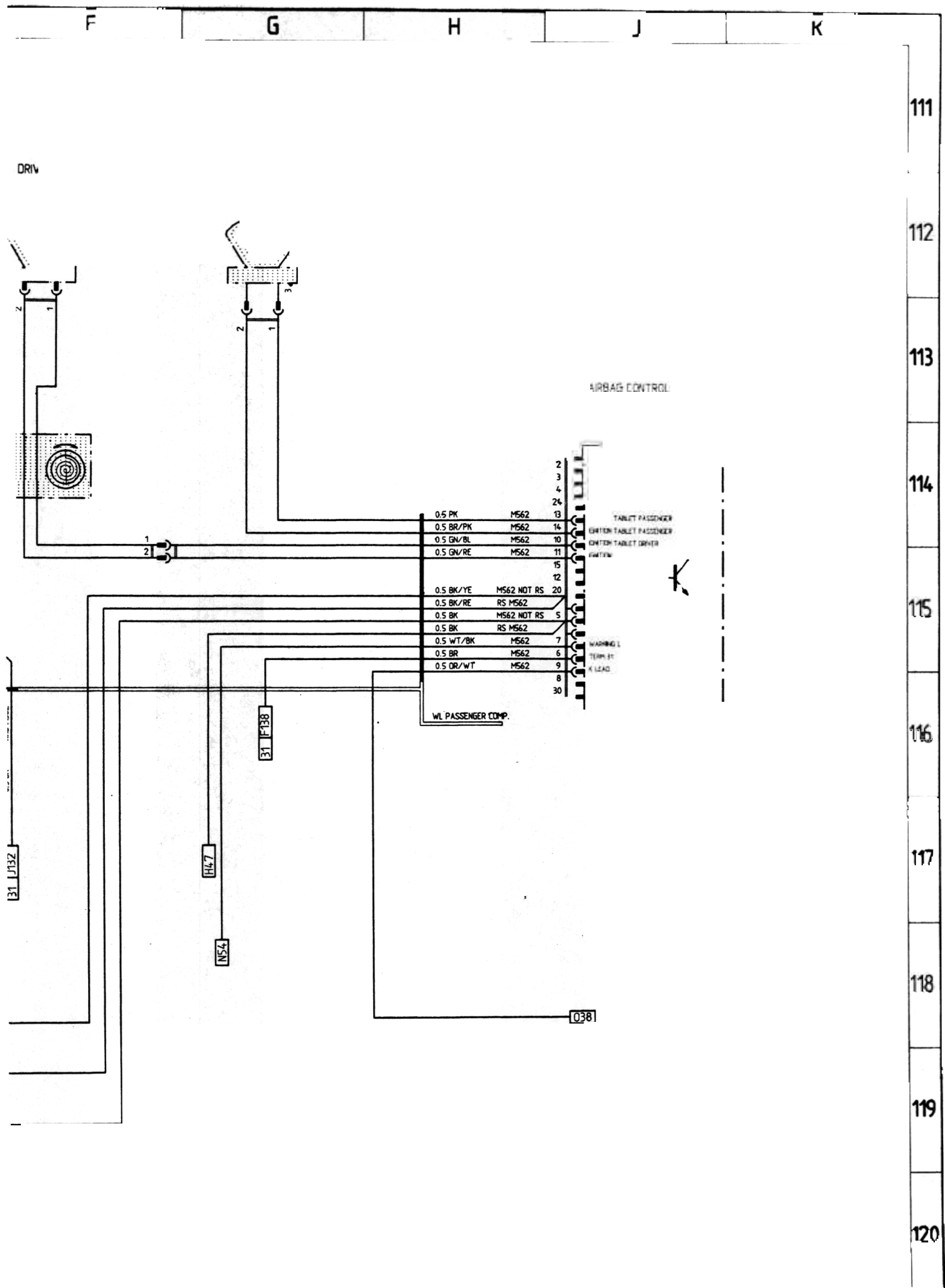


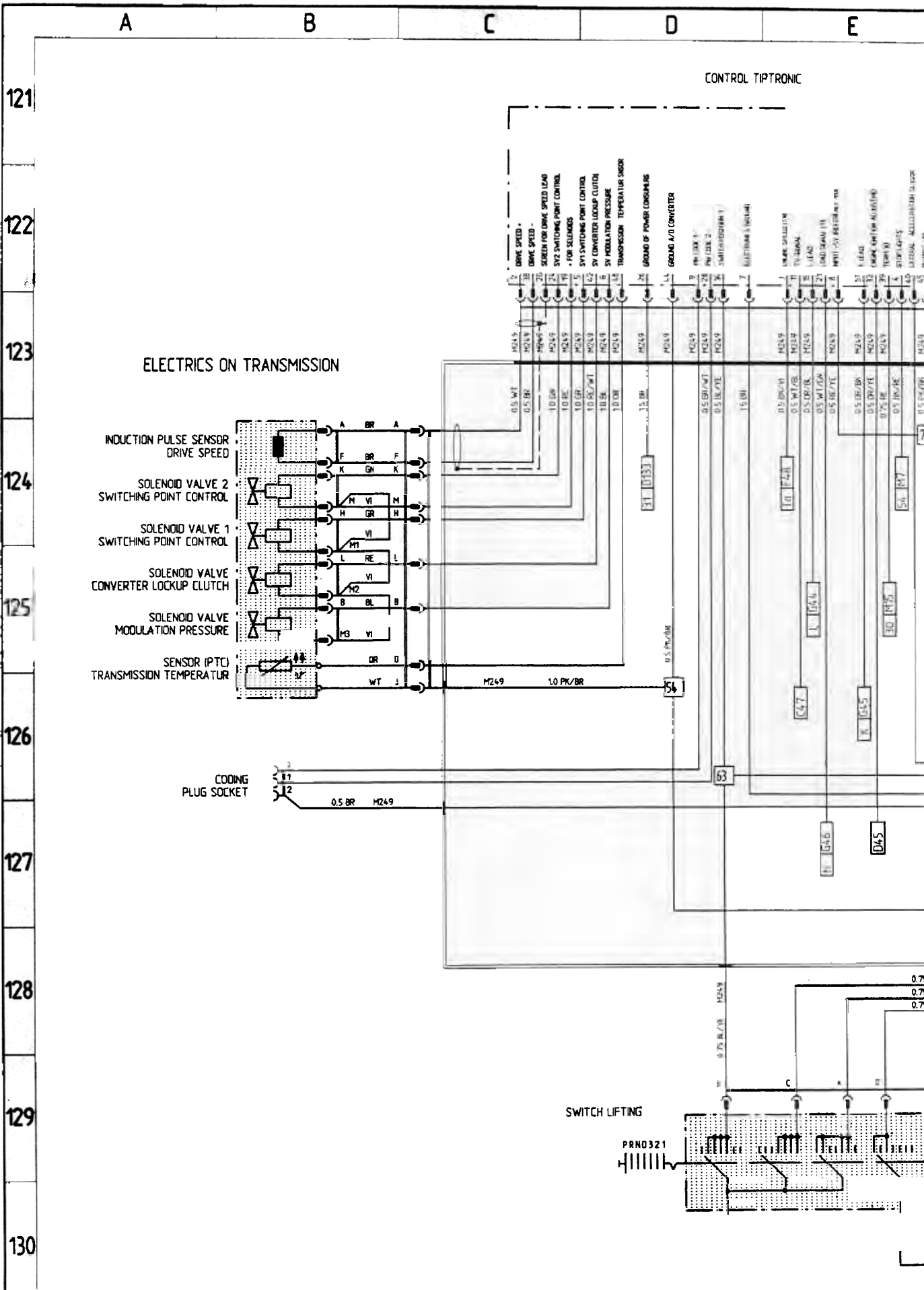


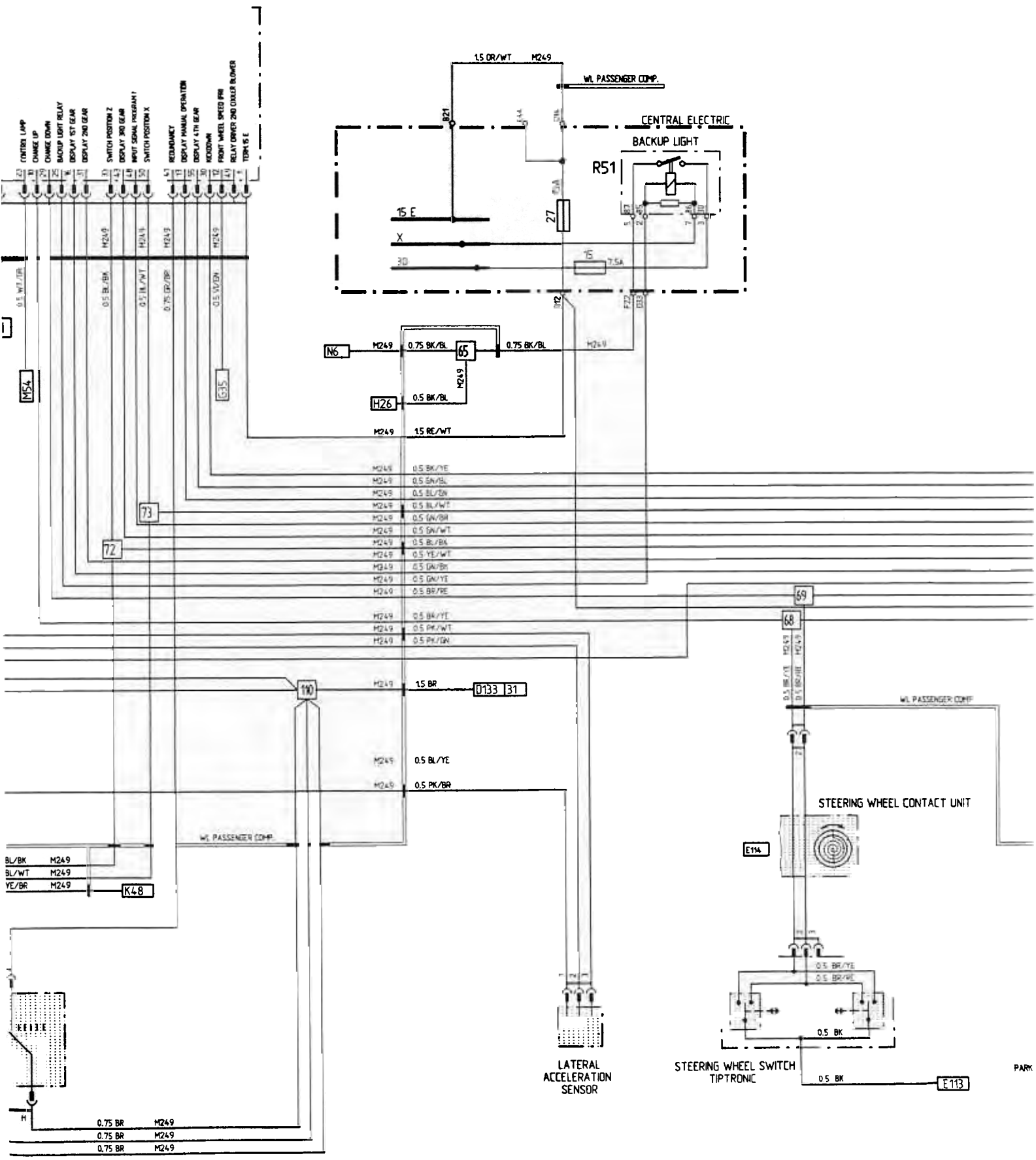
# 911 Carrera (1993) MODEL 95/2 SHEET 12

AIRBAG







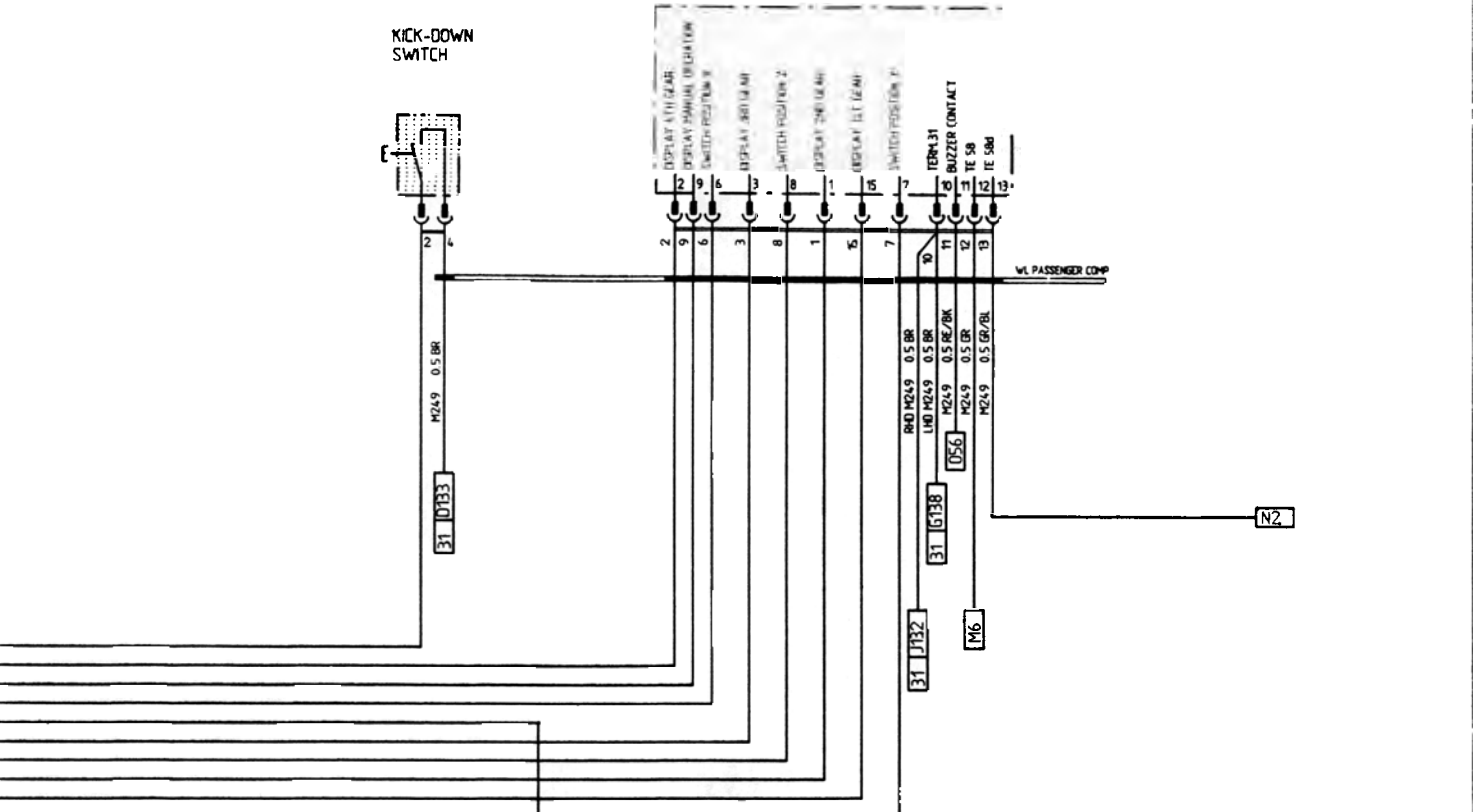
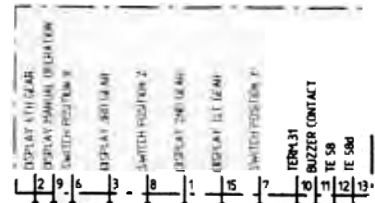


L M N O P

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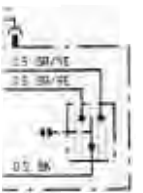
SPEEDOMETER

KICK-DOWN SWITCH

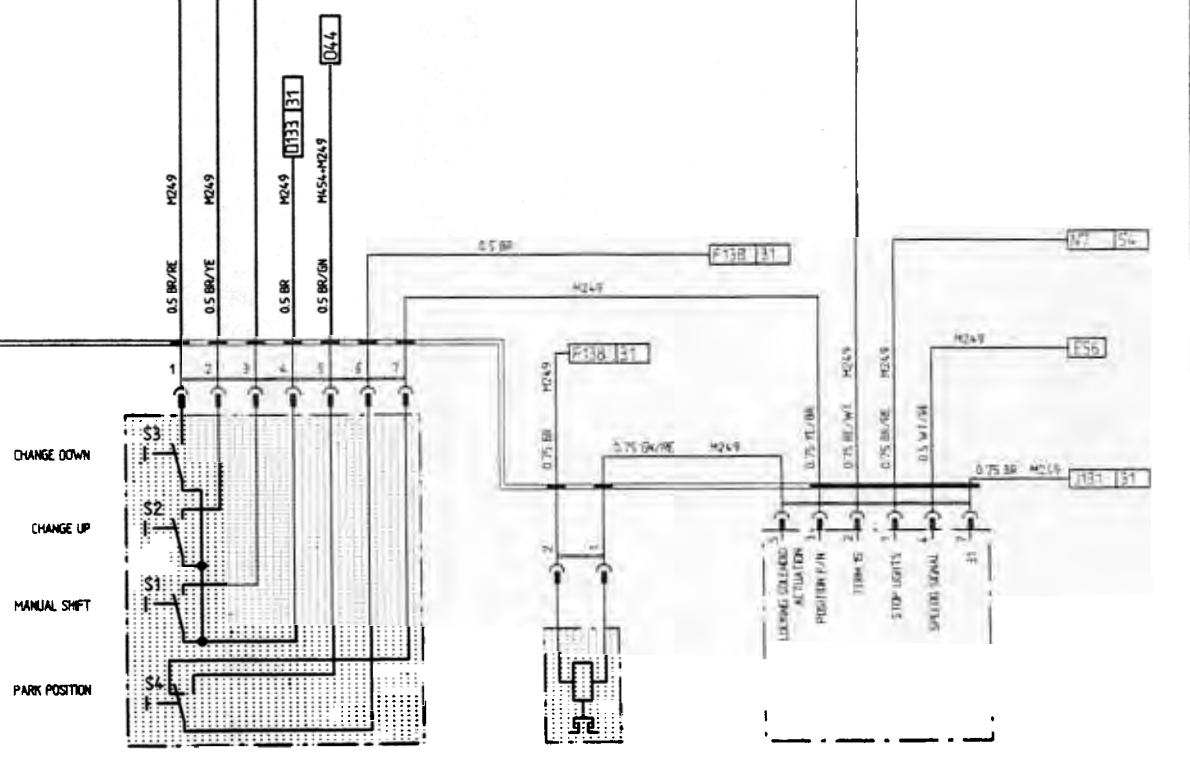


WL PASSENGER COMP.

STEERING WHEEL CONTACT UNIT



0.5 BK E113



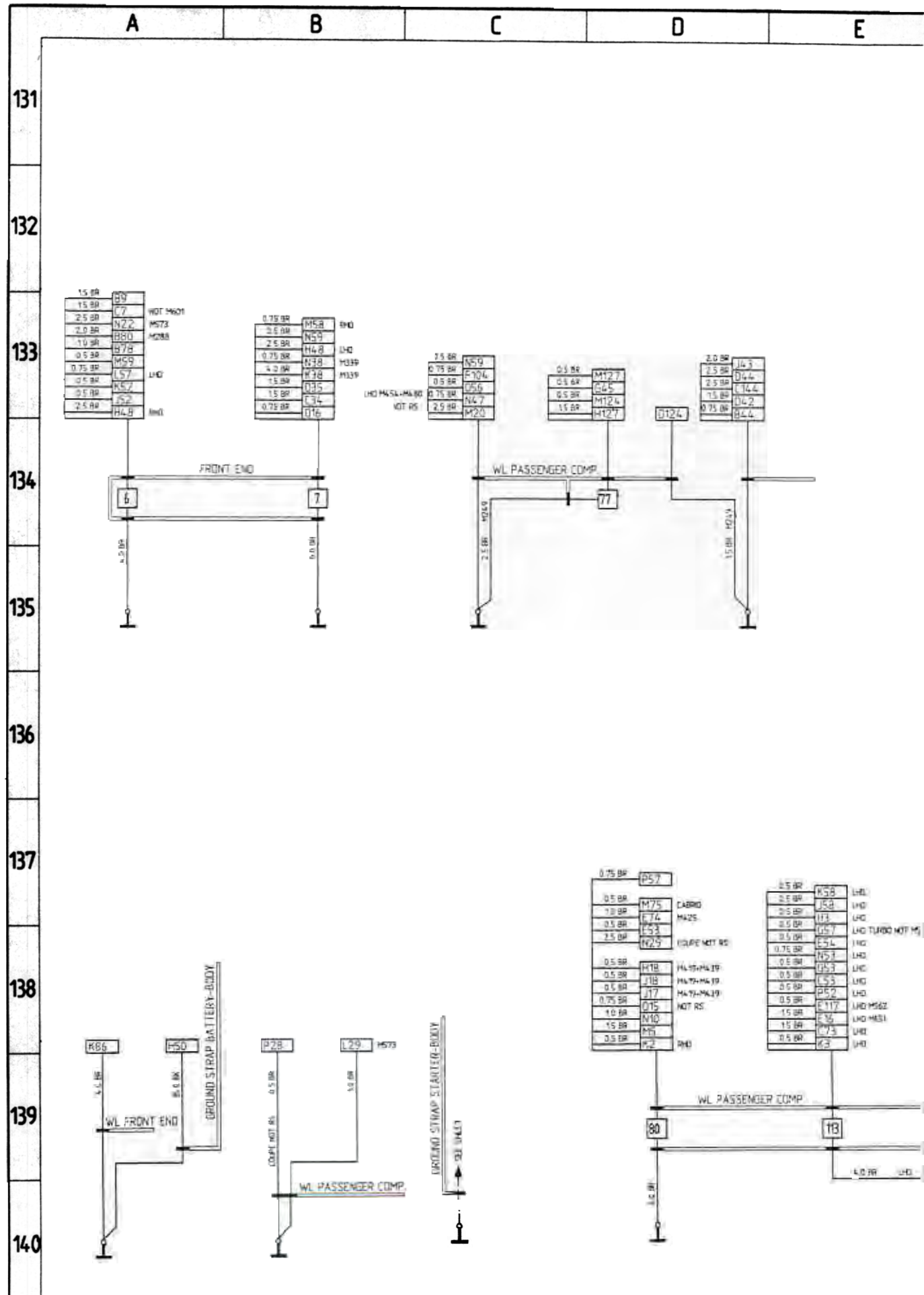
SELECTOR LEVER SWITCH

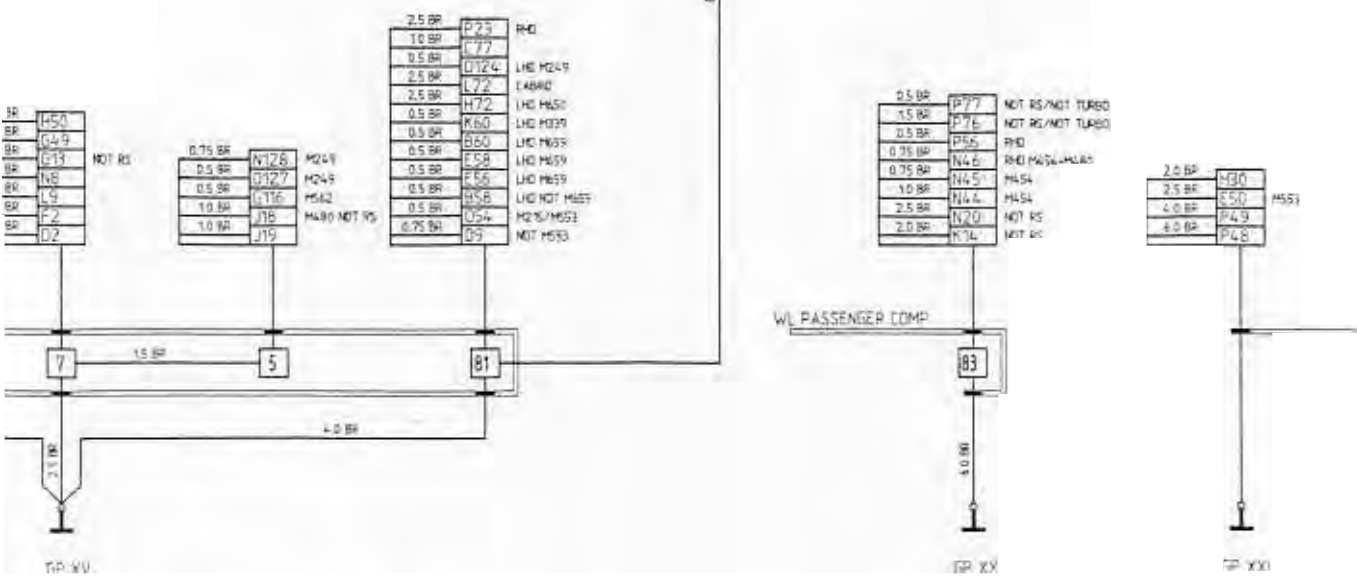
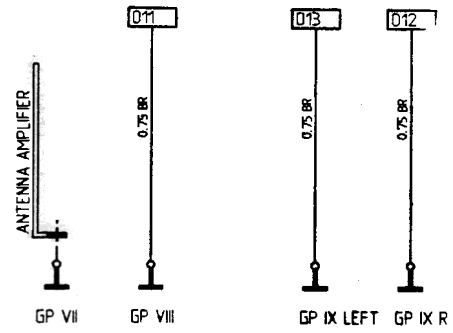
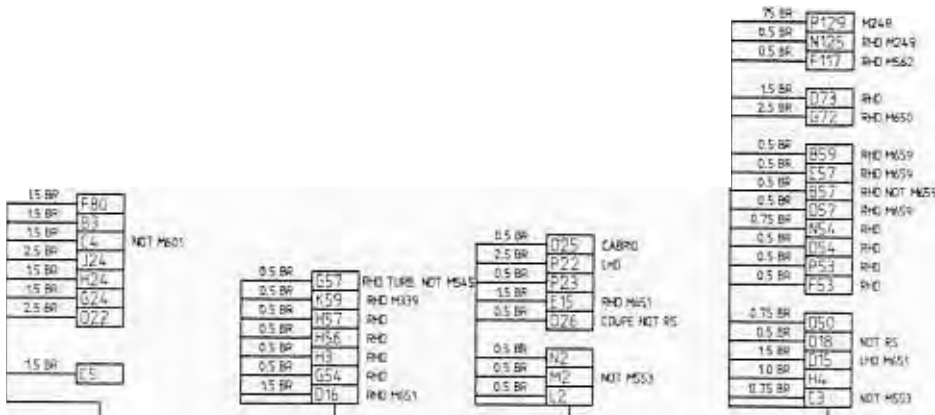
MAGNET FOR P/N LOCK

CONTROL UNIT P/N LOCK

# 911 Carrera (1993) MODEL 95/2 SHEET 14

## GROUND POINTS



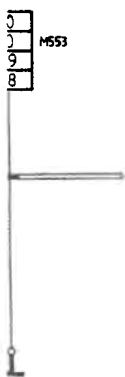
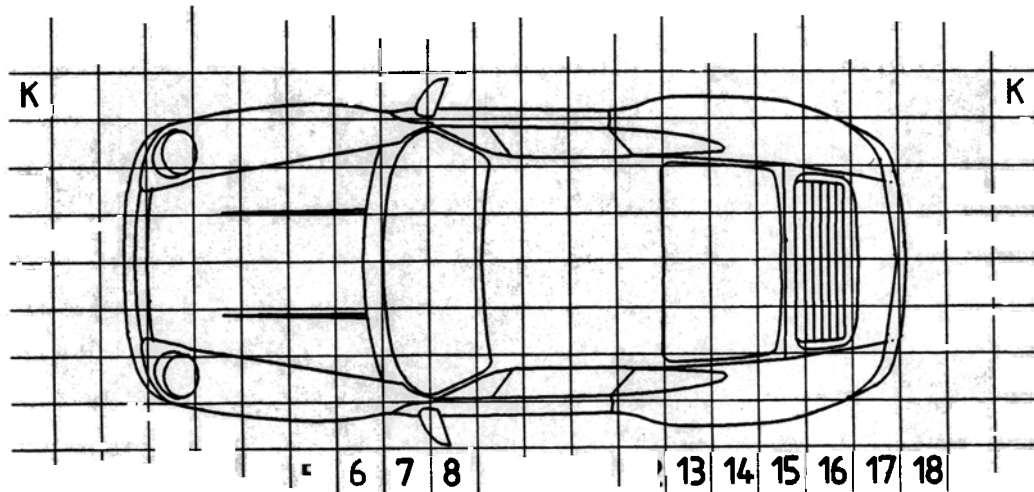
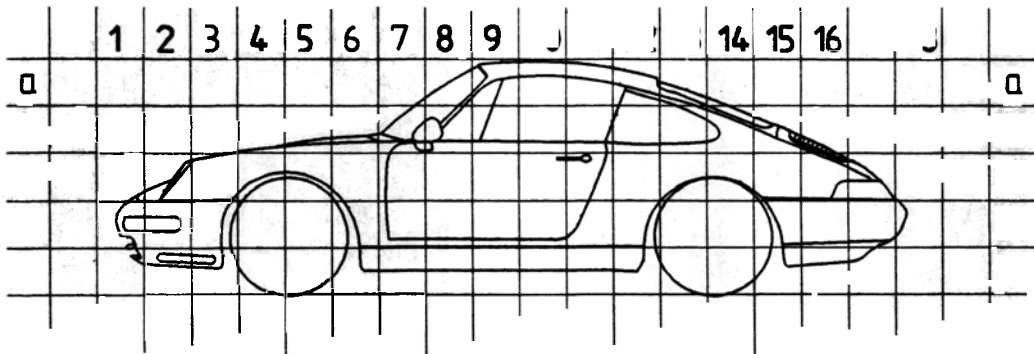
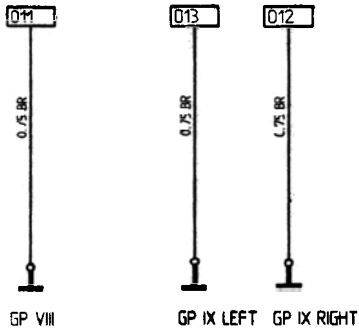


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L M N O P

CODE	NOTE	POSITION IN VEHICLE
		LHD
GP I	LUGGAGE COMPARTMENT, WHEEL HOUSING LEFT	2cP
GP II	LUGGAGE COMPARTMENT, WHEEL HOUSING RIGHT	
GP ..	GROUND OF POWER CONSUMERS, UNDER SEAT LEFT	
..	ENGINE ELECTRONICS/TIPTRONIC	
..	CENTRAL ELECTRIC, ON SIDE MEMBER RIGHT	
..	ANTENNA AMPLIFIER ON SIDE MEMBER LEFT	
GP VIII	INSIDE LIGHT CONVERTIBLE, ROOF CENTRE FRONT	
GP IX	INSIDE LIGHT, ROOF RIGHT	
GP IX	INSIDE LIGHT, ROOF LEFT	11aP
GP X	BATTERY, LUGGAGE COMPARTMENT LEFT	3aP
GP XI	GROUND STRAP (STARTER, TRANSMISSION, ENGINE, BODY)	
GP XII	ENGINE COMPARTMENT REAR LEFT	
GP XIV	ENGINE COMPARTMENT REAR RIGHT	
GP XV	INSTRUMENTS, SIDE MEMBER LEFT	
GP XX	SEAT CROSS MEMBER, UNDER SEAT RIGHT	
GP XXI	GROUND OF POWER CONSUMERS, CAMSHAFT CASING CYL.3	15cP



XXI



A B C D E

CONSTRUCTION COMPONENTS

DESIGNATION, FUNCTION	POSITION IN VEHICLE		NOTE	FIELD WIRING
	LHD	RHD		
ALARM HORN	13dP	13dP	REAR LH CROSSMEMBER	J20
	7bL	7bQ	IN LUGGAGE COMPARTMENT	
	3dP	3dP	IN LUGGAGE COMPARTMENT	
	4cL	4cL	IN LUGGAGE COMPARTMENT RIGHT	
AMPLIFIER	9eM	9eM	UNDER THE SEAT RIGHT	
BLOWER FINAL STAGE	6bN	6bN	IN LUGGAGE COMPARTMENT	
	16cO	16cO	ON ENGINE	H30
	6cM	6cM	IN LUGGAGE COMPARTMENT	G30
	6cP	6cP	IN LUGGAGE COMPARTMENT	F30
	14d	14d	IN LUGGAGE COMPARTMENT	
	14dN	14dN	BY TRANSMISSION RIGHT	
	2dQ	2dQ	IN WHEEL HOUSING FRONT LEFT	
	6dP	6dP	BY CLUTCH PEDAL UNDER FLOOR PANEL	
	16cP	16cP	CARRIER PLATE IN ENGINE COMPARTMENT	
	2dM	2dM	IN LUGGAGE COMPARTMENT	
	6cD	6cD	ON INSTRUMENT PANEL	
	9eM	9eM	UNDER THE SEAT RIGHT	
	10dP	10dP	UNDER THE SEAT LEFT	
	7cM	7cP	ON RH SIDE OF TRANSVERSE WALL	
	7cD	7cN	ON INSTRUMENT PANEL	
	6cM	6cM	CENTRAL ELECTRIC	
	6cM	6cM	IN LUGGAGE COMPARTMENT	
CENTRAL INFORMER	7cP	7cM	ON FIREWALL	M32
DIAGNOSIS CONNECTION	7cL	7cQ	IN PASSENGER'S FOOTWELL	G50
ENGINE SPEED SENSOR				
ENGINE TEMPERATURE SENSOR				
FLASHER				
FUEL PUMP	6eM	6eP	BEHIND THE BASE	
FUSES ENGINE COMPARTMENT	16cP	16cP	CARRIER PLATE IN ENGINE COMPARTMENT	L28
FUSE IN LUGGAGE COMPARTMENT	4cP	4cP	BELOW HYDRAULIC UNIT COVER	D377/1
FUEL LEVEL SENSOR	5cM	5cP	IN FUEL TANK	K51
GONG RELAY	7bQ		LH SIDE IN FRONT OF INSTRUMENTS	P53/1
HALL SENSOR	17cD	17cD	ON DISTRIBUTOR	
HYDRAULIC UNIT ABS	3dP	3dP	IN LUGGAGE COMPARTMENT	
HEADLIGHT CLEANER PUMP	3cQ	3cQ	BY WASHING FLUID RESERVOIR IN WHEEL HOUSING FL	A79/1
HEADLIGHT CLEANER RELAY	6cM	6cM	CENTRAL ELECTRIC	E78
IDLE SPEED POSITIONER	15bN	15bN	ON ENGINE	H/14
IGNITION CONTROL UNIT	11dP	11dP	UNDER THE SEAT LEFT	
IGNITION COIL I	17cP	17cP	ON ENGINE	L41
IGNITION COIL II	17cP	17cP	ON ENGINE	L41
KICK-DOWN SWITCH	6dO	6dM	BY ACCELERATOR PEDAL UNDER FLOOR PANEL	M122
KNOCK SENSOR CYL 1-3	15cP	15cP	ON ENGINE	A47
	16cN	16cN	ON ENGINE	A47
LATERAL ACCELERATION SENSOR TIPTRONIC TRANSMISSION				
LIGHTS ON BUZZER				
MFI + DI RELAY	6cM	6cM	CENTRAL ELECTRIC	J44
MFI + DI CONTROL UNIT	9eP	9eP	UNDER THE SEAT LEFT	B-64
	16bO	16bO	ON ENGINE	A43
MICRO SWITCH ROOF RIGHT	9aN	9aN	AT CONVERTIBLE TOP FRAME	M79
MICRO SWITCH ROOF LEFT	9aO	9aO	AT CONVERTIBLE TOP FRAME	L79
MICRO SWITCH REAR SPOILER EXTENDED	16bP	16bP	ON TAILGATE	O79
MICRO SWITCH REAR SPOILER RETRACTED	16bP	16bP	ON TAILGATE	O79

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DESIGNATION, FUNCTION	POSITION IN VEHICLE		NOTE	FIELD IN WIRING DIAGRAM
	LHD	RHD		
	MICRO SWITCH TDC	12cL		
	12cL	12cL	BEHIND SIDE PANEL COVERING	P71
	12aN	12aN	IN ROOF	G73
MOTOR TOP CONTROL RIGHT	15cN	15cN	BEHIND REAR SEAT	N71
MOTOR TOP CONTROL LEFT	15cD	15cD	BEHIND REAR SEAT	N71
MOTOR TOP LOCK RIGHT	9aN	9aN	AT CONVERTIBLE TOP FRAME	K/L79
	9aD	9aD	AT CONVERTIBLE TOP FRAME	J/K79
	16cP	16cP	ON ENGINE	G30
	15cN	15cN	ON ENGINE	A42
	2dP	2dP	FRONT LH BUMPER	A60
OUTSIDE TEMP. SENSOR	16dP	16dP	ON ENGINE	F150
OXYGEN SENSORS CYL.1-3	16dM	16dM	ON ENGINE	D150
OXYGEN SENSORS CYL.4-6	14cN	14cN	ON ENGINE	A54
OIL PRESSURE SENSOR/SWITCH	2dL	2dL	IN WHEEL HOUSING FRONT RIGHT	O21
OIL COOLER BLOWER	12cK	12cK	IN WHEEL HOUSING REAR RIGHT	E51
OIL LEVEL SENSOR	14cN	14cN	ON ENGINE	A53
OIL TEMPERATURE SENSOR FOR INSTRUMENT	2dL	2dL	IN WHEEL HOUSING FRONT RIGHT	J21
OIL TEMPERATURE SENSOR FOR OIL COOLER BLOWER	16bM	16bM	ON ENGINE	A56
PRESSURE TRANSDUCER, CHARGE AIR PRESSURE	6bD	6bD	IN LUGGAGE COMPARTMENT	E30
PRESSURE SWITCH AIR CONDITIONING SYSTEM	1dD	1dD	IN LUGGAGE COMPARTMENT	M/N39
PRESSURE WARNING SWITCH	17dN	17dN	BEHIND REAR PANEL	H108
REAR FOG LIGHT CUTOFF RELAY	15bD	15bD	ON REAR WINDOW WIPER MOTOR	E71
REAR WINDOW WIPER RELAY	16dP	16dP	IN ENGINE COMPARTMENT	J30
	2dD	2dD	IN WHEEL HOUSING FRONT LEFT	M21
	2dL	2dL	IN WHEEL HOUSING FRONT RIGHT	
RESISTOR OIL COOLER BLOWER	6cM	6cM	CENTRAL ELECTRIC	L21
RELAY CONDENSER BLOWER	16cP	16cP	CARRIER PLATE IN ENGINE COMPARTMENT	L30
RELAY AC COMPRESSOR	6cM	6cM	CENTRAL ELECTRIC	F78
RELAY TWO-TONE HORN	6cM	6cM	CENTRAL ELECTRIC	K18/19
RELAY POWER WINDOW	16cP	16cP	CARRIER PLATE IN ENGINE COMPARTMENT	J/K30
RELAY BLOWER ENGINE COMPARTMENT	6cM	6cM	CENTRAL ELECTRIC	N50
RELAY STARTER TIPTRONIC-TRANSMISSION	7bD	7bD	IN LUGGAGE COMPARTMENT LEFT	
RELAY BACKUP LIGHT	6cM	6cM	CENTRAL ELECTRIC	L/M51
RELAY THERMO SWITCH CATALYTIC CONVERTER	6cM	6cM	CENTRAL ELECTRIC	J/K44
RELAY TERM.X	6cM	6cM	CENTRAL ELECTRIC	K/L44
RELAY TERM.15 E	6cM	6cM	CENTRAL ELECTRIC	J/K7, A-M94
RELAY RFL - BACKUP LIGHT	6cM	6cM	CENTRAL ELECTRIC	J7, C-094
RELAY FRONT FOG LAMP	6cM	6cM	CENTRAL ELECTRIC	K21
RELAY OIL COOLER BLOWER	4cL	4cL	IN LUGGAGE COMPARTMENT RIGHT	M39
	6cM	6cM	CENTRAL ELECTRIC	H75
RELAY DAYTIME RUNNING LIGHT CANADA	6cM	6cM	CENTRAL ELECTRIC	D1
RELAY FOG LIGHT SWITCH OFF USA/JAPAN	6cM	6cM	CENTRAL ELECTRIC	H-P/94, F/G10
SECONDARY AIR PUMP RELAY	17cP	17cP	ON CARRIER ON LH SIDE IN ENGINE COMPARTMENT	A50
STOP LIGHT SWITCH	6dP	6dM	AT THE BRAKE PEDAL BELOW THE FLOOR PANEL	N9
	12dD	12dD	ON GEARBOX	D-F129
SHIFT VALVE RESONANCE FLAP		15bN	ON ENGINE	H41
STARTER	14dN	14dN	BY CLUTCH HOUSING RIGHT	P49/50
SECONDARY AIR PUMP	16cN	16cN	ON ENGINE	D/E50
	15bN	15bN	ON THROTTLE VALVE ASSEMBLY	A44
TIMING VALVE	16cM	16cM	ON ENGINE	L750
TANK VENTING VALVE	16cP	16cP	ON ENGINE	K41
TWO-TONE HORN I	3cL	3cL	IN WHEEL HOUSING FRONT RIGHT	F80
TWO-TONE HORN II	3cL	3cL	IN WHEEL HOUSING FRONT RIGHT	G80
V-BELT CONTROL	17dD	17dD	ON ENGINE REAR MIDDLE	A55
WINDSHIELD WASHING FLUID PUMP	3cD	3cD	BY WASHING FLUID RESERVOIR IN WHEEL HOUSING FL	A79
WIPER INTERMITTENT CONTROL RELAY	6cM	6cM	CENTRAL ELECTRIC	F/G75

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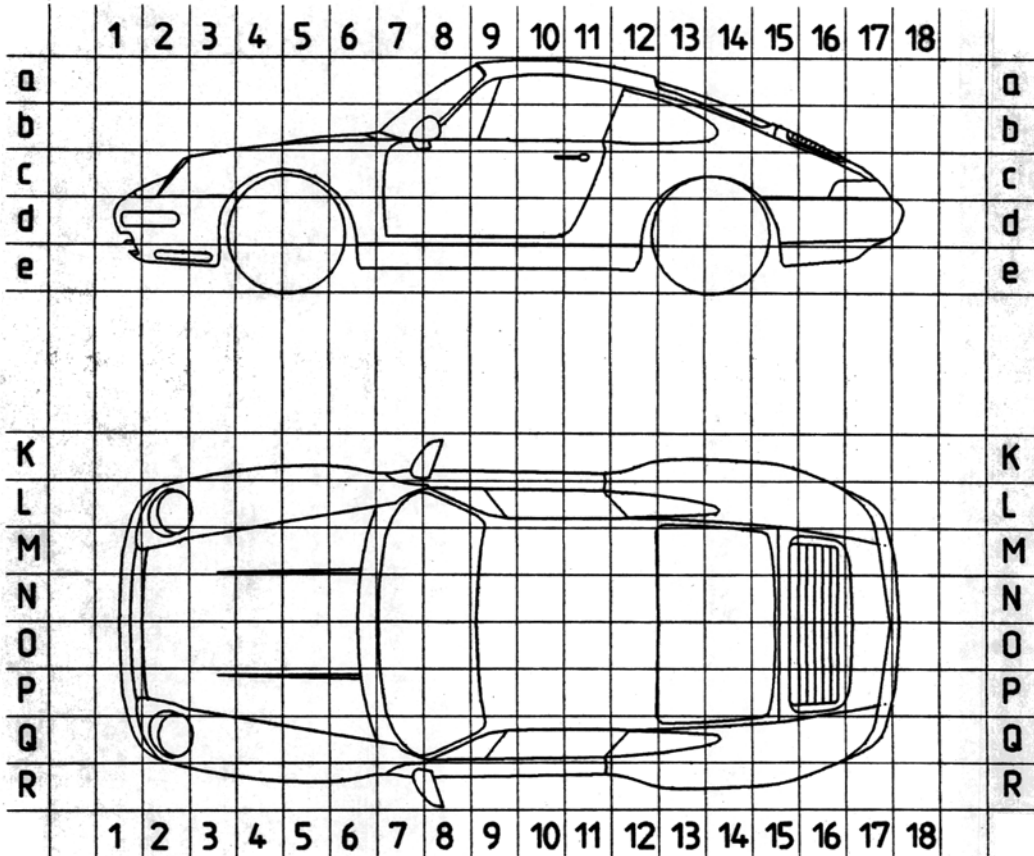
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L M N O P

FIELD IN WIRING DIAGRAM

071
P71
G73
N71
N71
K/L79
J/K79
G30
A42
A60
F150
D150
A54
O21
E51
A53
J21
A56
E30
M/N39
H108
E71
J30
M21
M21
L21
L30
F78
K18/19
J/K30
N50
J122
L/M51
J/K44
K/L44
J/K7, A-M94
J7, C-094
K21
M39
H75
D1
H-P/94, F/G10
A50
N9
D-F129
H41
P49/50
D/E50
A44
L150
K41
F80
G80
A55
A78
F/G75



# 911 Carrera (1993) MODEL 95/2 SHEET 16

## CONNECTORS AND ABBREVIATIONS

A B C D E

### PLUG CONNECTIONS

CODE	NUMBER OF PINS	DESIGNATION, FUNCTION	POSITION IN VEHICLE		NOTE
			LHD	RHD	
X 1/1	10	CONNECTION WL PASSENGER COMPARTMENT/ WL FRONT END	6cL	6cL	
X 1/2	10	CONNECTION WL PASSENGER COMPARTMENT/ WL FRONT END	6cL	6cL	
X 3	14	CONNECTION WL PASSENGER COMPARTMENT/ WL MOTOR	16cP	16cP	CARRIER PLATE
X4/1	14	CONNECTION WL PASSENGER COMPARTMENT/ WL MFI + DI	9eP	9eP	UNDER THE SEA
X4/2	14	CONNECTION WL PASSENGER COMPARTMENT/ WL MFI + DI	9eP	9eP	UNDER THE SEA
X11/1	14	CONNECTION WL PASSENGER COMPARTMENT/ WL DOOR DRIVER'S SIDE	6cQ	6cL	UNDER THE INST
X11/2	10	CONNECTION WL PASSENGER COMPARTMENT/ WL DOOR DRIVER'S SIDE	6cQ	6cL	UNDER THE INST
X12/1	12	CONNECTION WL PASSENGER COMPARTMENT/ WL DOOR PASSENGER'S SIDE	6cL	6cQ	UNDER THE INST
X12/2	10	CONNECTION WL PASSENGER COMPARTMENT/ WL DOOR PASSENGER'S SIDE	6cL	6cQ	UNDER THE INST
X20	14	CONNECTION WL PASSENGER COMPARTMENT/ WL HEATER, AIR CONDITIONER	6cM	6cM	UNDER INSTRUME
X24	10	CONNECTION WL PASSENGER COMPARTMENT/ WL TAILGATE	16cL	16cL	BOX RH SIDE OF
X25	10	CONNECTION WL PASSENGER COMPARTMENT/ WL TAIL LIGHTS	16cL	16cL	BOX RH SIDE OF
X26	12	CONNECTION WL PASSENGER COMPARTMENT/ WL CONVERTIBLE TOP	12cL	12cL	BEHIND SIDE PAN
X28	6	CONNECTION WL PASSENGER COMPARTMENT/ WL IGNITION LOCK	6cP	6cM	ON STEERING CO
X29	2	CONNECTION WL PASSENGER COMPARTMENT/ OIL TANK SENSOR	16cL	16cL	BOX RH SIDE OF
X31	4	CONNECTION WL PASSENGER COMPARTMENT/ WL INSIDE LIGHTS COUPE	15bM	15bM	BELOW THE PAR
X32	2	CONNECTION WL PASSENGER COMPARTMENT/ WL INSIDE LIGHTS CONVERTIBLE	6cQ	6cQ	UNDER INSTRUME
X33	2	CONNECTION WL PASSENGER COMPARTMENT/ WL SIDE TURN SIGNAL LEFT	7bQ	7bQ	IN LUGGAGE COM
X34	2	CONNECTION WL PASSENGER COMPARTMENT/ WL SIDE TURN SIGNAL RIGHT	7bL	7bL	IN LUGGAGE COM
X36	4	CONNECTION WL PASSENGER COMPARTMENT/ SWITCH LIFTING CONVERTIBLE TOP	12cL	12cL	BEHIND SIDE PAN
X37	8	CONNECTION WL PASSENGER COMPARTMENT/ WL SEAT LEFT	9eP	9eN	UNDER THE DRIV
X38	8	CONNECTION WL PASSENGER COMPARTMENT/ WL SEAT RIGHT	9eN	9eP	UNDER THE PAS
X39	6	CONNECTION WL PASSENGER COMPARTMENT/ WL LUGGAGE COMPARTMENT HOOD	7bL	7bL	ON RH SIDE OF L
X60	21	CONNECTION WL MOTOR/ WL MFI + DI	16cP	16cP	CARRIER PLATE
X65	6	CONNECTION WL DOOR DRIVER'S SIDE/ WL OUTSIDE MIRROR LEFT	8cR	8cK	DRIVER'S DOOR
X66	6	CONNECTION WL DOOR PASSENGER'S SIDE/ WL OUTSIDE MIRROR RIGHT	8cK	8cR	PASSENGER'S DO
X69	14	CONNECTION WL FRONT END/ WL HEATER, AIR CONDITIONER	6cM	6cM	IN LUGGAGE COM

### M - NUMBERS

M 113	CANADA VERSION (DAYTIME RUNNING LIGHT)	M 487	NORWAY
M 139	ADJUSTABLE SEAT HEATING, LEFT SEAT	M 490	AUDIO OPTION PACK
M 193	JAPAN VERSION	M 513	LUMBAR SUPPORT SEAT RIGHT
M 215	SAUDI-ARABIA VERSION	M 530	CODE LOCK
M 224	AUTOMATIC BRAKE DIFFERENTIAL	M 545	LARGE TANK
M 249	AUTOMATIC TRANSMISSION (TIPTRONIC)	M 553	USA / CANADA VERSION
M 339	FWD	M 562	AIRBAG
M 340	ADJUSTABLE SEAT HEATING, RIGHT SEAT	M 564	WITHOUT AIRBAG
M 383	SPORT SEAT LEFT ELECTRIC HEIGHT ADJUSTMENT	M 573	AIR CONDITIONING SYSTEM
M 387	SPORT SEAT RIGHT ELECTRIC HEIGHT ADJUSTMENT	M 576	WITHOUT REAR FOG LIGHT
M 419	REAR PACKAGE TRAY	M 586	LUMBAR SUPPORT SEAT LEFT
M 425	REAR WINDOW WIPER	M 601	LITRONIC
M 437	COMFORT SEAT LEFT	M 602	HIGH MOUNTED STOP LIGHT
M 438	COMFORT SEAT RIGHT	M 605	HEADLIGHT VERTICAL AIM CONTROL
M 439	ELECTRIC CONVERTIBLE TOP	M 614	TELEPHONE PREPARATION
M 441	RADIO PREPARATION	M 650	POWER SUNROOF
M 451	LIMITED RADIO PREPARATION	M 651	POWER WINDOWS
M 454	CRUISE CONTROL	M 659	ON-BOARD COMPUTER
M 480	TRANSMISSION	M 680	DIGITAL SOUND PACKAGE

CONNEX

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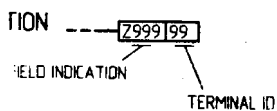
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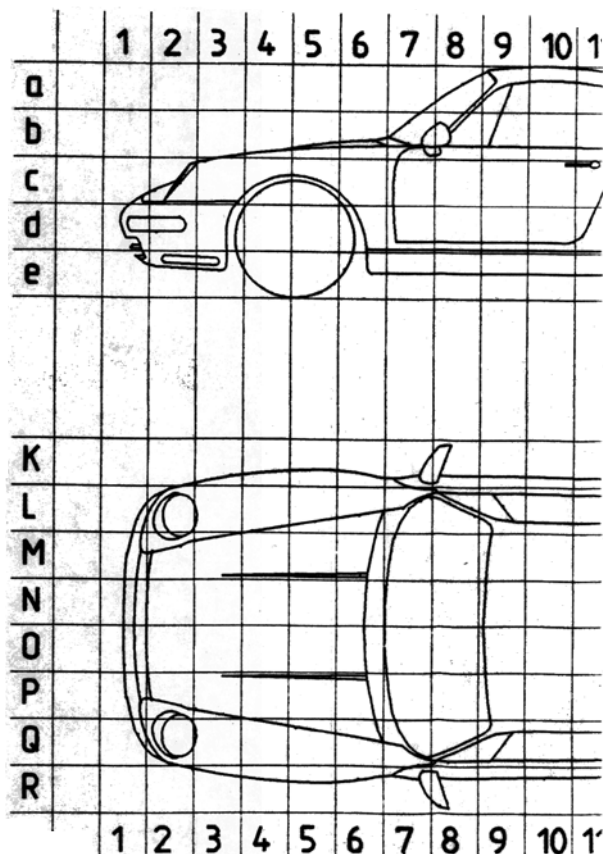
FIELD	
ARTMENT RIGHT	G/H34,K123
	C9,E36,G48,B58/59
	K/L3,J27/28,D48/49,B53/54
	C/D45/46,B55,L143
	F45/46,B55,G/H148
	E/F16/17,B87/88, F88
UMENT PANEL DRIVER'S SIDE	C16, F87/88
UMENT PANEL PASSENGER'S SIDE	E/F13,C87/88, H88
UMENT PANEL PASSENGER'S SIDE	C14,H87/88
VT PANEL RIGHT	G25/26
NGINE COMPARTMENT	010,013/14,076
NGINE COMPARTMENT	N4-6
	J-M76
	E52
	012/13,H73
VT PANEL LEFT	N/012
ARTMENT ON SIDE MEMBER LEFT	D/E9
ARTMENT ON SIDE MEMBER RIGHT	C2
L COVERING	N74
R SEAT	
EGER SEAT	N19,A70,E65/66
GGAGE COMP. LID HINGE	016,B77
ENGINE COMPARTMENT	B46,E48,K42,B55,M142,M148
	B18/19
R	B13
	G23/24

## ABBREVIATIONS

CODE	MEANING	CODE	
ABD	AUTOMATIC BRAKE DIFFERENTIAL	FOG	FOG LI
ABS	ANTILOCK BRAKING SYSTEM	GP	GROUND
AC	AIR CONDITIONING SYSTEM	HCS	HEADL
ADL	ADDITIONAL DRIVING LIGHTS	HF	HIGH F
BPAU	BRAKE BOOSTER	HFM	
BL	BACKUP LIGHT	HVAC	
CL	CLOSE	INJ. VALVE	
CLS	CENTRAL LOCKING SYSTEM	INS.C	
CU	CONTROL UNIT	IC	
CWL	CENTRAL WARN. LIGHT	LED	
CE	CENTRAL ELECTRIC	LHD	
CP	CONNECTING POINT	LF	
CLOCK	CLOCK SIGNAL		
CO	CARBON MONOXIDE		
DATA	DATA SIGNAL	NO	NUM
DEF	DEFROST	NTC	
DSP	DIGITAL SOUND PACKAGE	OP	
DP	DISCONNECTING POINT	PIN	
DI	ELECTRIC IGNITION SYSTEM WITH KNOCK CONTROL	PQT	
ESO	ENGINE-SPEED SENSOR OUTPUT	PSD	
ESS	ENGINE SPEED SENSOR	PWM	PULSE
ETC	ELECTRICAL TRANSMISSION CONTROL	PL	PLUG
FA	FRONT AXLE	RA	REAR A
FL	FRONT LEFT	RL	
FR	FRONT RIGHT	RR	



P	IGNITION SWITCH POSITION 0	56	LIGHT SWITCH POSITION	II
X	IGNITION SWITCH POSITION I-II	56a/56b	HIGH BEAM/LOW BEAM	
15	IGNITION SWITCH POSITION II-III	57	LIGHT SWITCH POSITION	I
R	IGNITION SWITCH POSITION I-II-III	58	LIGHT SWITCH POSITION	I-II
K	DIAGNOSIS K	58R/58L	SIDE MARKER LIGHT RIGHT/LEFT	
L	DIAGNOSIS L	58d	INSTRUMENT LIGHTS	
30	PERMANENT POSITIVE	Ti	INJECTION SIGNAL	
31	GROUND	Tn	ROTATIONAL SPEED SIGNAL	
54	STOP LIGHT	61	GENERATOR D+	



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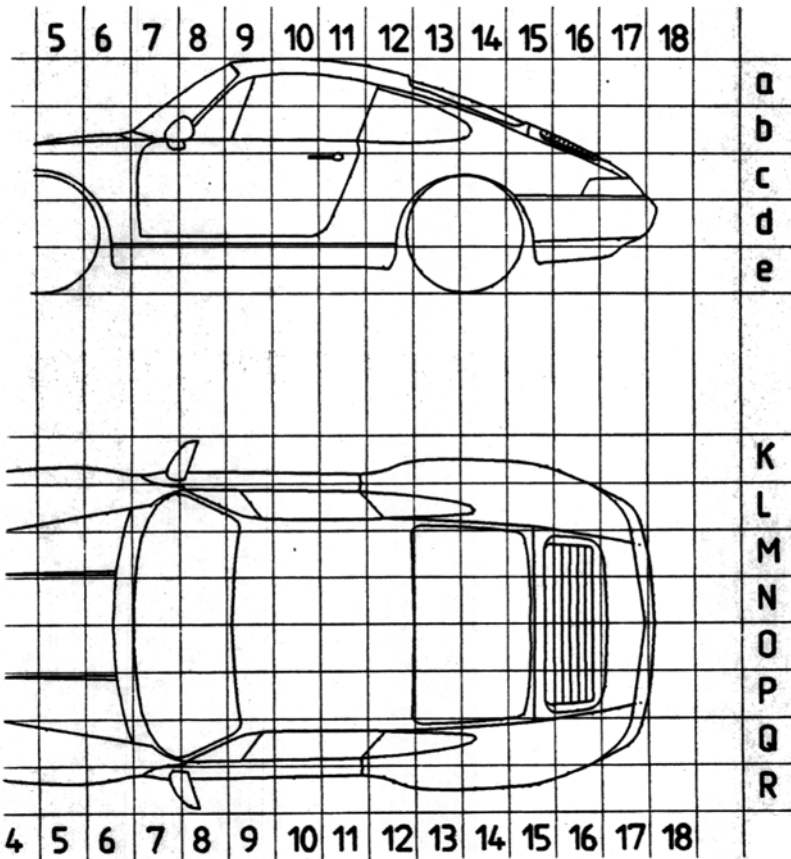
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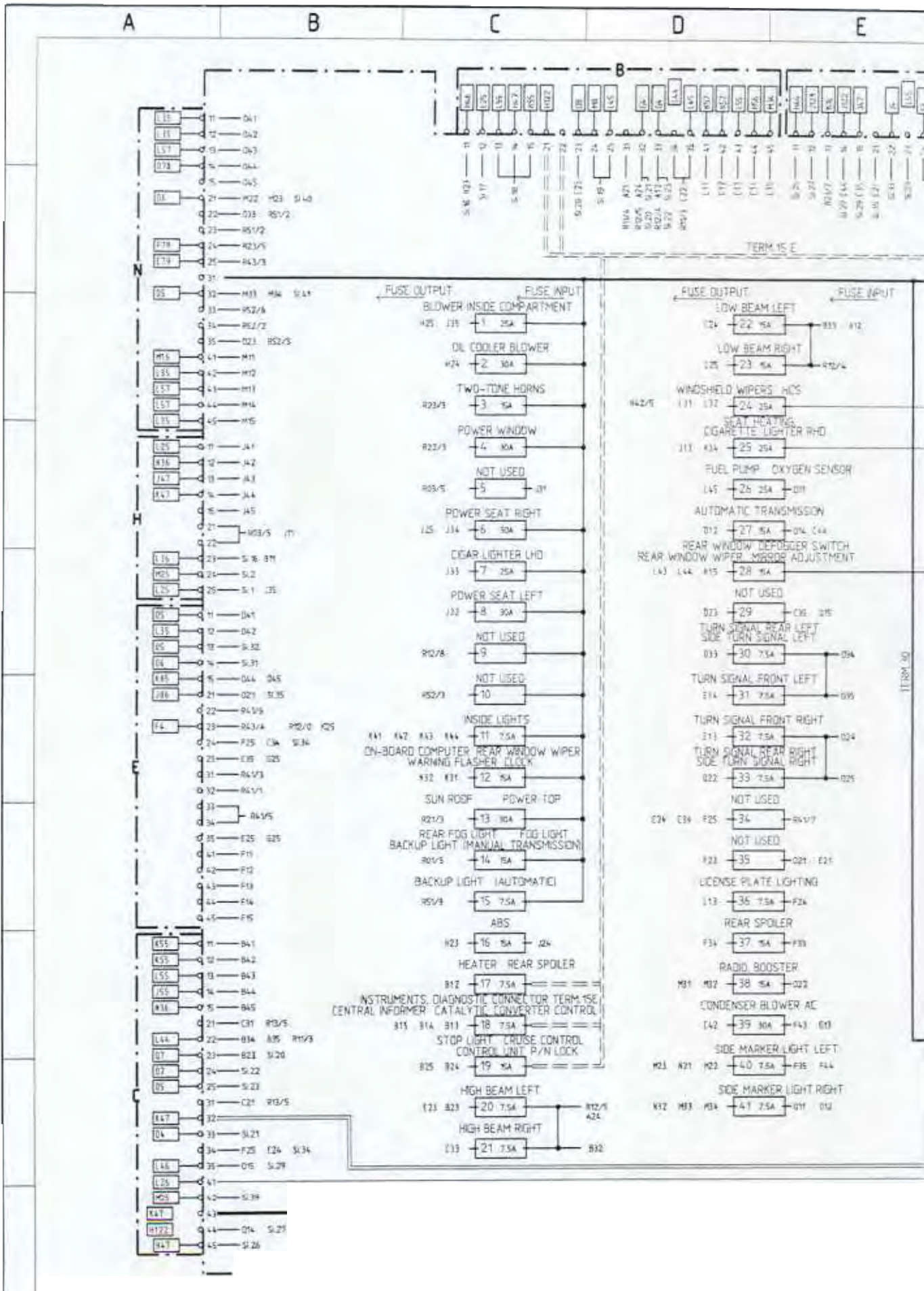
L M N O P

CODE	MEANING	CODE	MEANING
FOG	FOG LIGHT	ROK	TIRE PRESSURE CONTROL
GP	GROUND POINT	ROW	REST OF WORLD
HCS	HEADLIGHT CLEANING SYSTEM	RHD	RIGHT-HAND DRIVE
HF	HIGH FREQUENCY	RFL	REAR FOG LIGHT
HFM	HOT-FILM AIR MASS METER	SA	SAUDI ARABIA
HVAC	HEADLIGHT VERTICAL AIM CONTROL	SAFETY LAMP	SAFETY LAMP
NI VALVE	FUEL INJECTOR	SERVICE	SERVICE
INS C	INSTRUMENT CLUSTER	SCS	COMBINED STEERING COLUMN SWITCH
IC	IGNITION CIRCUIT	SS	SPEED SENSOR
LED	LIGHT-EMITTING DIODE	THROTTLE	THROTTLE VALVE
LHD	LEFT-HAND DRIVE	TVS	THROTTLE VALVE SENSOR
LF	LOW FREQUENCY	TE	TERMINAL
MFI + DI	DIGITAL ENGINE ELECTRONICS	TEL MUTE	RADIO MUTING CONTROL
MS 2	MOTRONIC 5.2	TI	INJECTION TIME
NO	NUMBER	TN	SPEED
NTC	NEGATIVE TEMPERATURE COEFFICIENT	TURBO	911 TURBO
OP	OPEN	TRP	TWIN-COIL ROTARY POSITIONER
PN	PN	USA	USA
POT	POTENTIOMETER	WL	WIRING LOOM
PSD	PORSCHE LIMITED SLIP DIFFERENTIAL	WP	WELD POINT
PWM	PULSE WIDTH MODULATION	WW	WORLDWIDE
PL	PLUS		
RA	REAR AXLE		
RL	REAR LEFT		
RR	REAR RIGHT		



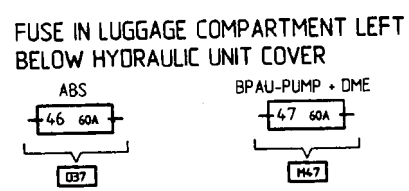
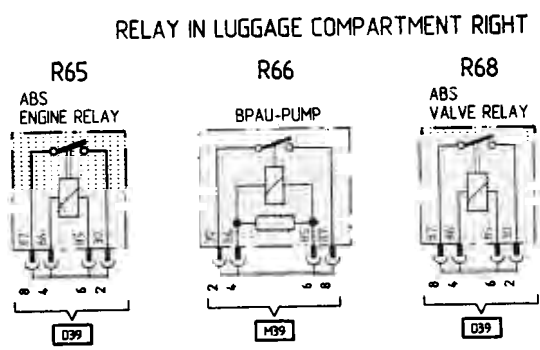
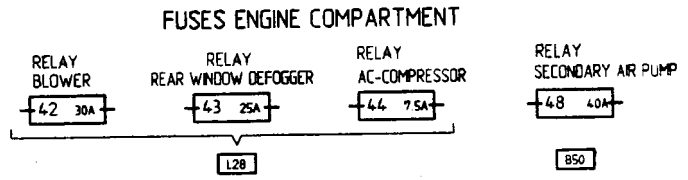
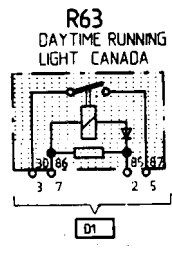
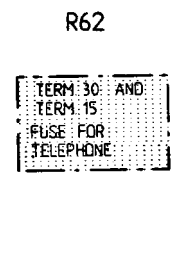
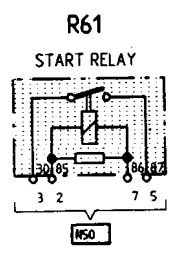
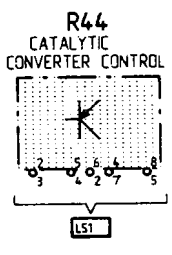
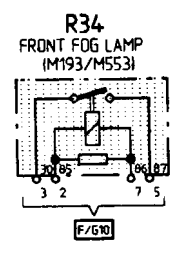
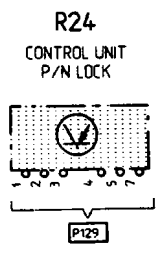
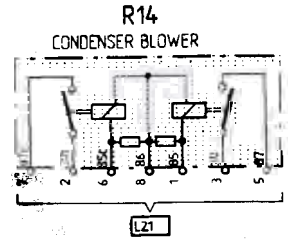
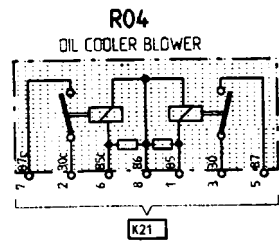
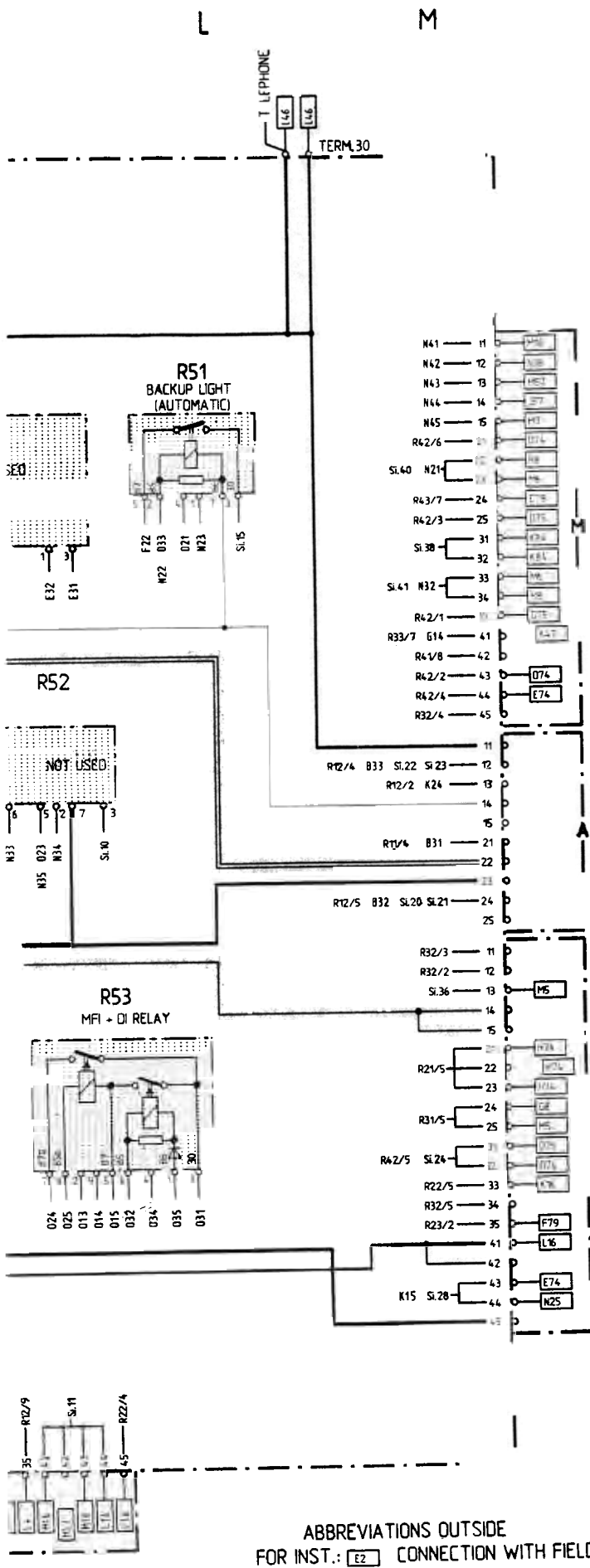
# 911 Carrera (1993) MODEL 95/2 SHEET 17

CENTRAL ELECTRIC









**ABBREVIATIONS INSIDE**  
 FOR INST.: C3 PLUG CONNECTION  
 R01 RELAY  
 SI. FUSE

**ABBREVIATIONS OUTSIDE**  
 FOR INST.: E2 CONNECTION WITH FIELD DATA

— TERM. 31  
 — TERM. 15  
 — TERM. 15E  
 — TERM. X  
 — TERM. 30