



# Parts and Accessories Installation Instructions

## Installation Kit Mini Additional Instruments MINI (R 50/R 53)

The installation time is approx. 1.0 hours, but this may vary depending on the condition of the car and the equipment in it.

Retrofit kit No.      82 94 0 148 956

### **Important information for the installation of the additional instruments**

The additional instruments may only be installed by a specialist workshop that has the required special tools and manuals.

Ensure that the cables/lines are not kinked or damaged as you install them in the car.  
Additional cables/lines that you install must be secured with cable ties.

All the figures show LHD cars, proceed in exactly the same way on RHD cars.

Item numbers refer only to the overview drawings and to the texts next to the appropriate figure.

### **Subject to technical modifications**

### **Special tools required**

None

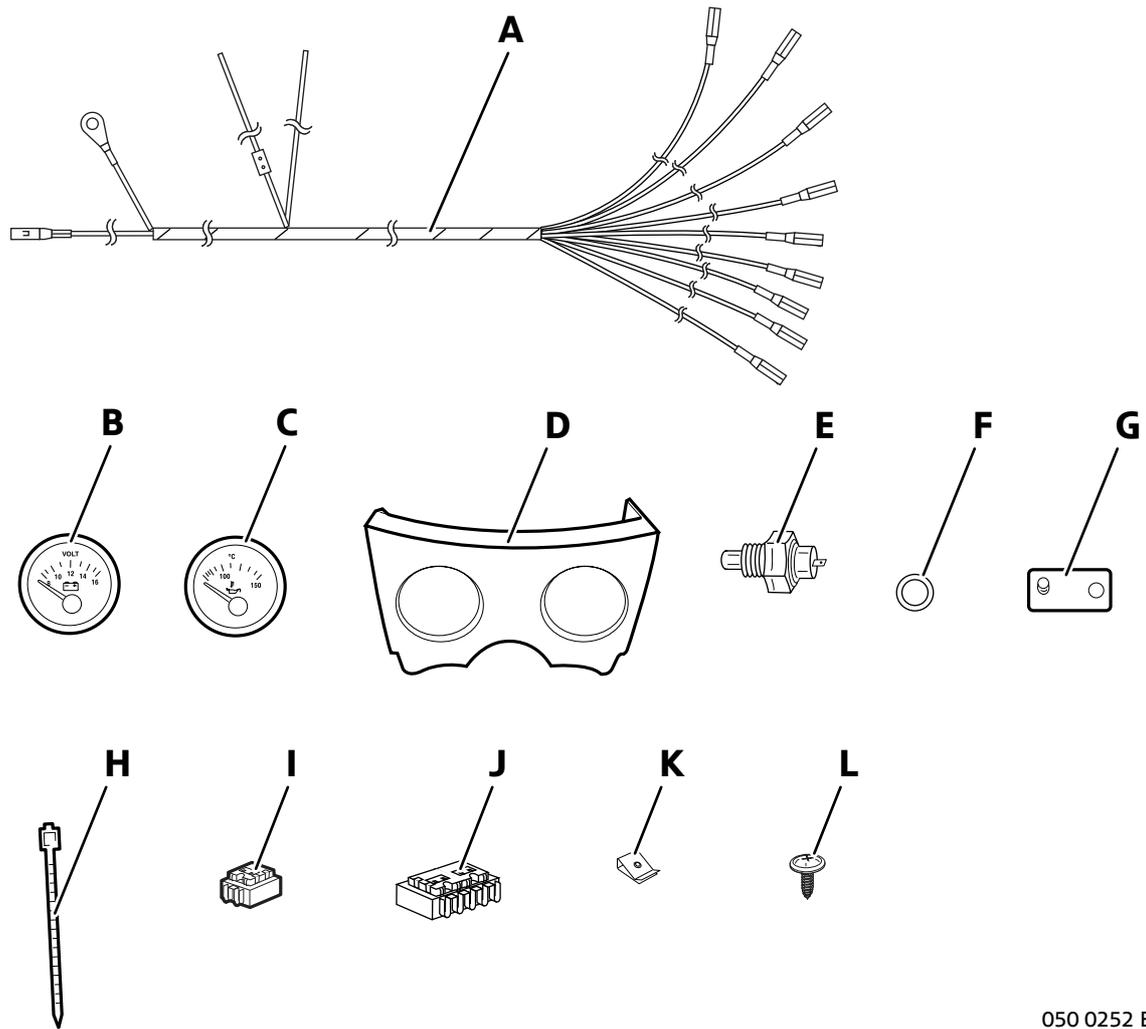
# Contents

Section	Page
Important information for the installation of the additional instruments.....	1
1. Preparations .....	3
2. Parts list.....	4
3. Connection diagram .....	5
4. Installation and cabling diagram .....	6
5. To install the oil temperature sensor and connection cable.....	7
6. To install the installation frame and connect the additional instruments.....	9
7. Circuit diagram.....	10

## 1. Preparations

	TIS instruction No.
Remove the battery and battery box	1200
Remove the radio	65 11 030
Remove the centre console	51 16 200
Disconnect the battery	61 21 020
R50: Remove the battery and battery box	---

## 2. Parts list

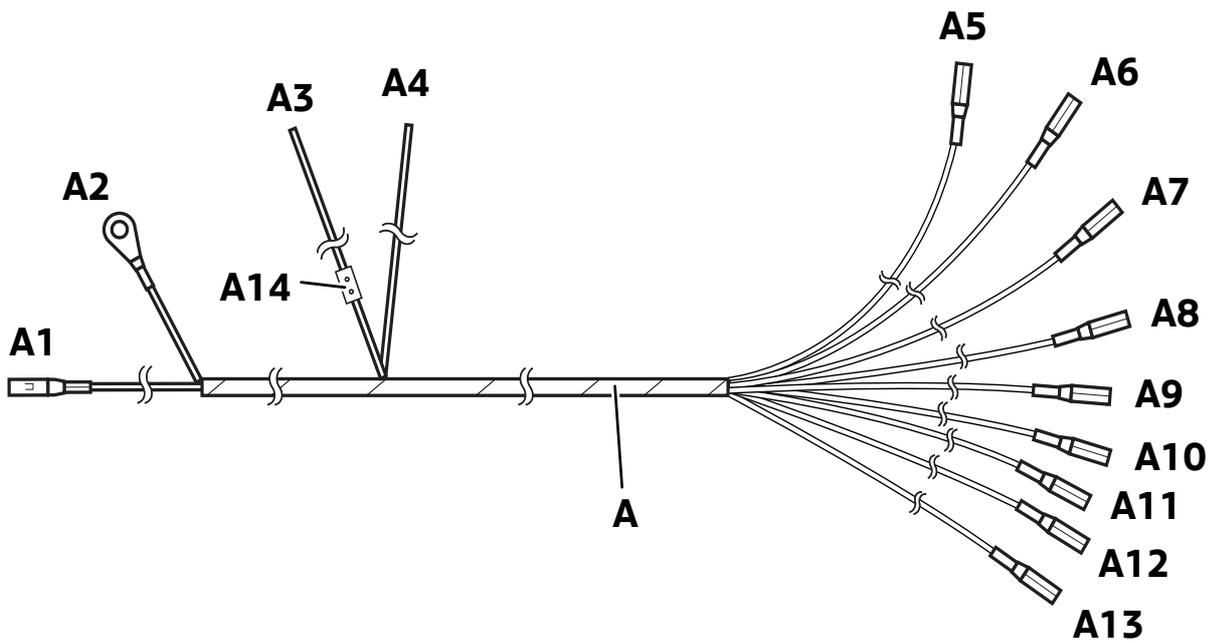


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### Legend

- A Connection cable
- B Voltmeter
- C Oil temperature gauge
- D Installation frame
- E Oil temperature sensor
- F Sealing ring A14x20-Cu
- G Earth adapter
- H Cable tie (10x)
- I 2-way insulation-piercing connector
- J 5-way insulation-piercing connector
- K Speed nut 3.5 (2x)
- L Self-tapping screw 3.5 x 16 (2x)

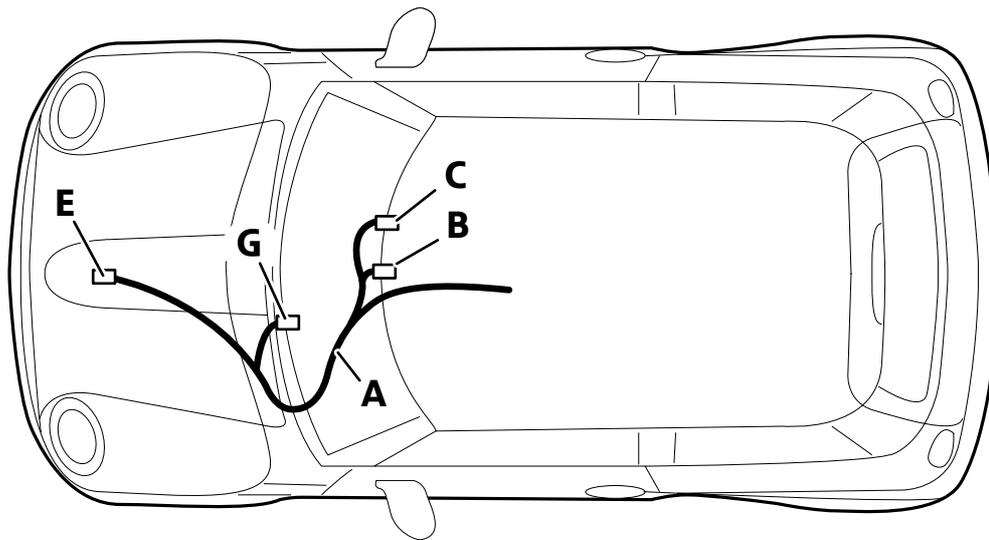
### 3. Connection overview



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Item	Description	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
A	Connection cable	---	---	---	---
A1	Cable lug	Oil temp.	BL	Oil temperature sensor	---
A2	Cable eyelet	Earth	BR	Earth post in engine compartment	---
A3	Open cable end	15	RT	To voltage supply cable (RT/GR) for cigarette lighter using 5-way insulation-piercing connector	Pin 2
A4	Open cable end	58G	GR/RT	Power supply cable (GR/RT) from radio connection plug	X18126/14 or X2519/13
A5	Cable lug	Oil temp.	BL	To oil temperature gauge	S device
A6-A9	Cable lug	Earth	BR	To each of the two earth connections of the oil temperature gauge and voltmeter	Negative device Negative lighting
A10-A11	Cable lug	58G	GR/RT	To lighting from oil temperature gauge and voltmeter	Positive lighting
A12-A13	Cable lug	15	RT	To voltage supply from oil temperature gauge and voltmeter	Positive device
A14	Fuse	15	---	---	---

## 4. Installation and cabling diagram

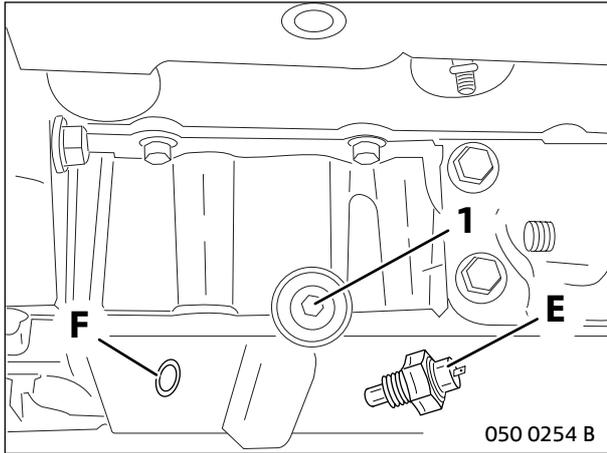


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### Legend

- A Connection cable
- B Voltmeter
- C Oil temperature gauge
- E Oil temperature sensor
- G Earth adapter

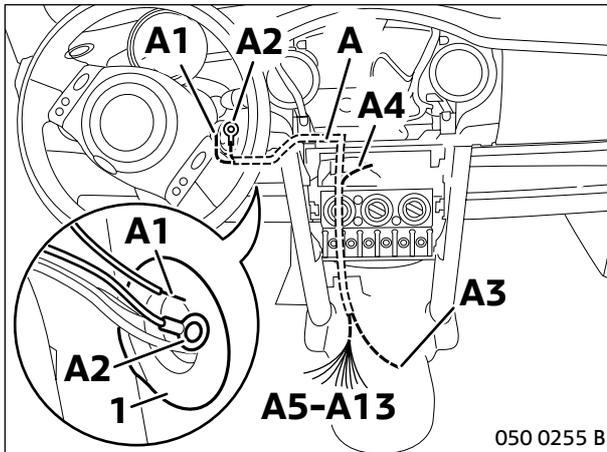
## 5. To install the oil temperature sensor and connection cable



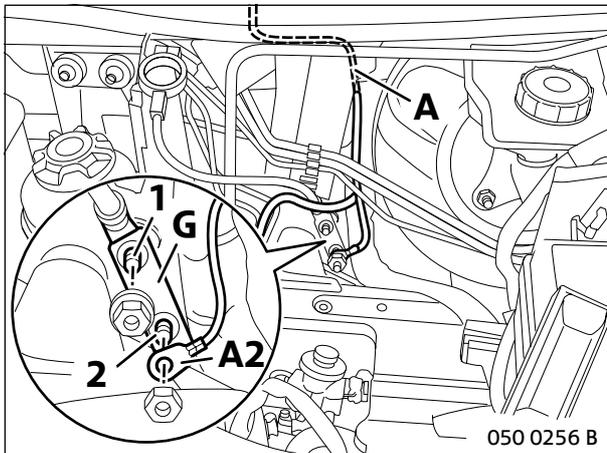
Remove the oil drain plug (1).  
Screw in oil temperature sensor E and sealing ring F.  
Tightening torque value of oil temperature sensor 25 Nm.



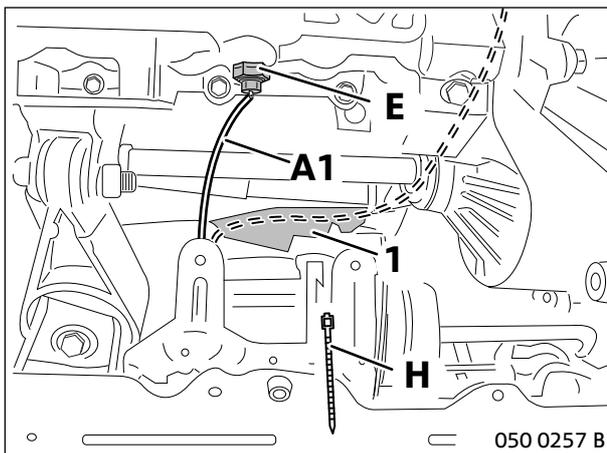
Check the oil level and top up if necessary. ◀



Route connection cable A.  
Route A1 and A2 through grommet (1) into the engine compartment. Route A4 to the radio connection plug, A3, A5-A13 to the centre console.

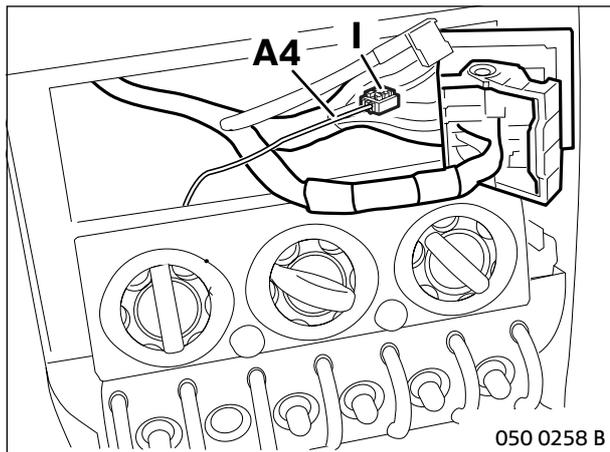


Screw earth adapter G onto earth bolt (1).  
Screw A2 onto pin (2).

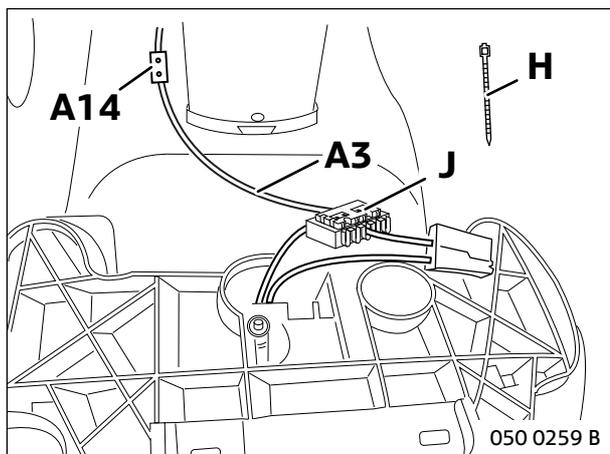


Route A1 along the servo line behind heat shield (1) to oil temperature sensor E and attach with cable ties (H).

5. To install the oil temperature sensor and connection cable

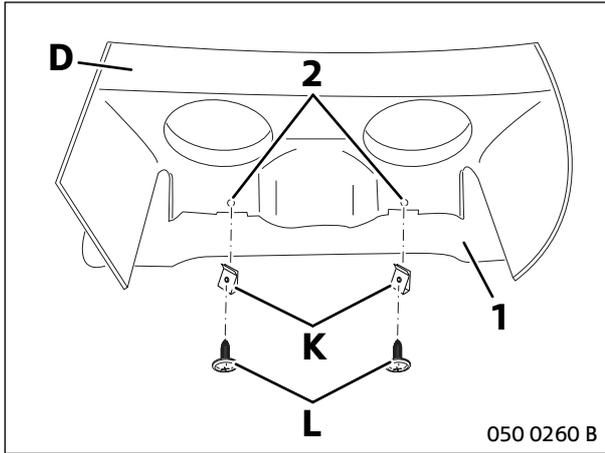


Connect A4 to the GR/RT power supply cable pin 14 (new generation: pin 13) using insulation-piercing connector I.

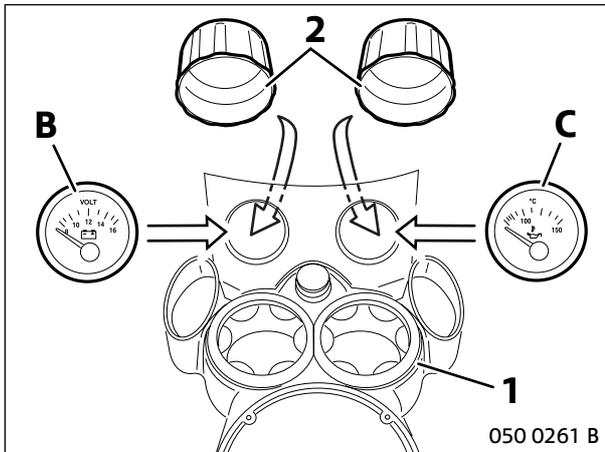


Connect A3 to the RT/GN power supply cable pin 2 of the cigarette lighter using 5-way insulation-piercing connector J. Attach fuse A14 at a suitable point using cable ties H.

## 6. To install the installation frame and connect the additional instruments



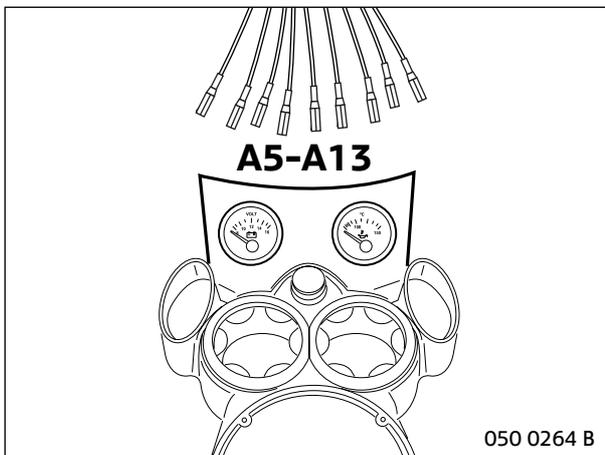
Lay installation frame D on centre console (1) as a drilling template.  
Drill a 5 mm hole at each of positions (2). Attach installation frame D using speed nuts K and self-tapping screws L.



Screw on additional instruments B and C using the fixing rings (2) provided.

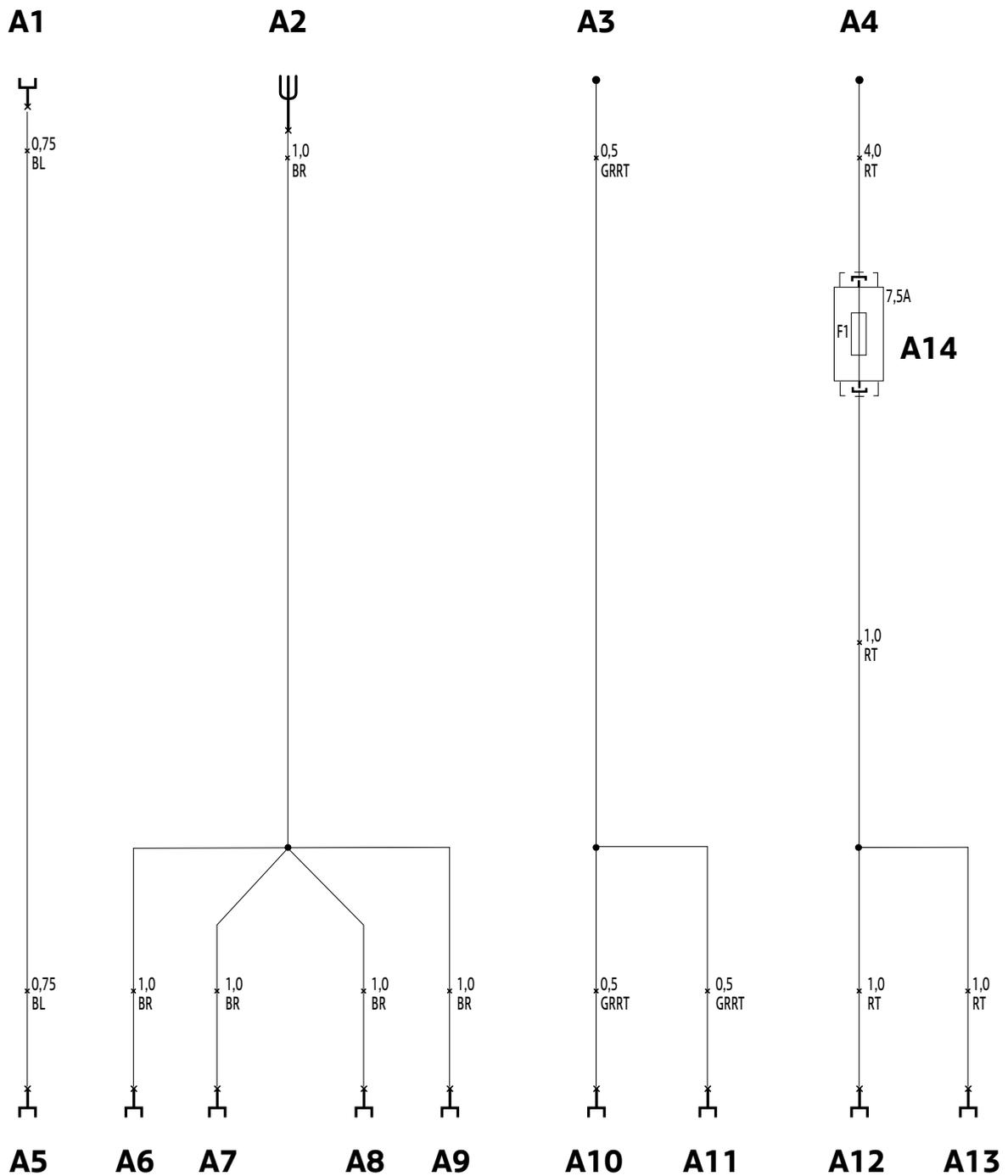


Line up the gauges so they are horizontal. ◀



Connect A5-A13 to the additional instruments according to the connection overview.

## 7. Circuit diagram



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## 7. Circuit diagram

### Legend

See connection overview

### Cable colours

RT	red
GN	green
BL	blue
GR	grey