

Continental RightViu

Vehicle specific installation instruction Scania NGT

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Vehicle manufacturer: Scania
Vehicle model: NGT S500
Model code: 2019
Cab type: XXL-cab
Number of axles: 2 axles
Track width in cm:
Axle width for Excel Tool 2135 cm
Axle length for Excel Tool 3800 cm

Tachograph model: Continental VDO 1.4 to 4.0

Transmission manufacturer:

Additional information:

Check all electrical connections for correct and secure installation.

RTA = Right turn assist

Parts required:

<u>Part description</u>	<u>Part number</u>
Radar Kit 1 Plate	1x 2801602025301

Installation Information:

1. Connection overview

Terminal 15: central electrical unit, see photos in the description

Terminal 30: central electrical unit, see photos in the description

Terminal 31: central electrical unit, see photos in the description

Road speed signal Can high/low: plug C137 PIN 6 Can-High blue, PIN 9 Can-Low white

Signal indicator right: plug C489 PIN 3 at the central electrical unit

DIN22 high 24V-500kb / vehicle ground -250kb: vehicle ground (0V) = 250kb (star connection point)

2. Installation position radar



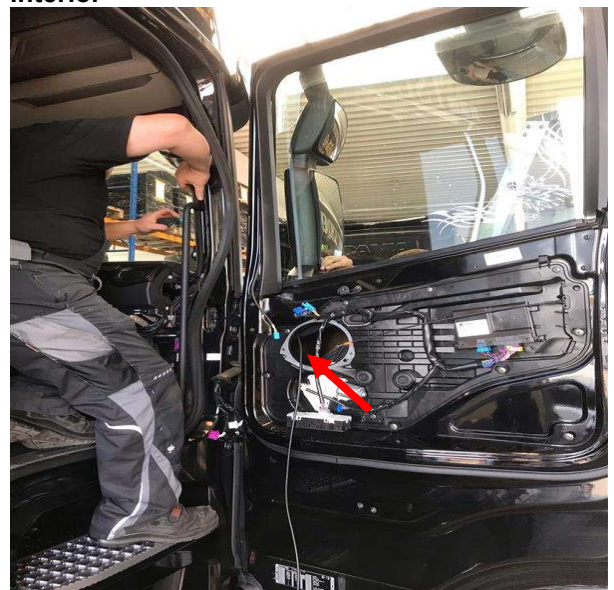
The radar sensor is mounted below the rear view mirror (mirror height above 2M) and the cables are positioned through the plastic mirror holder cover, (see arrow marker in the picture).

For other such vehicle models it is necessary to measure if the positioning underneath the mirror is possible. The lower side of the radar has to be at least 2 meters above the road surface.

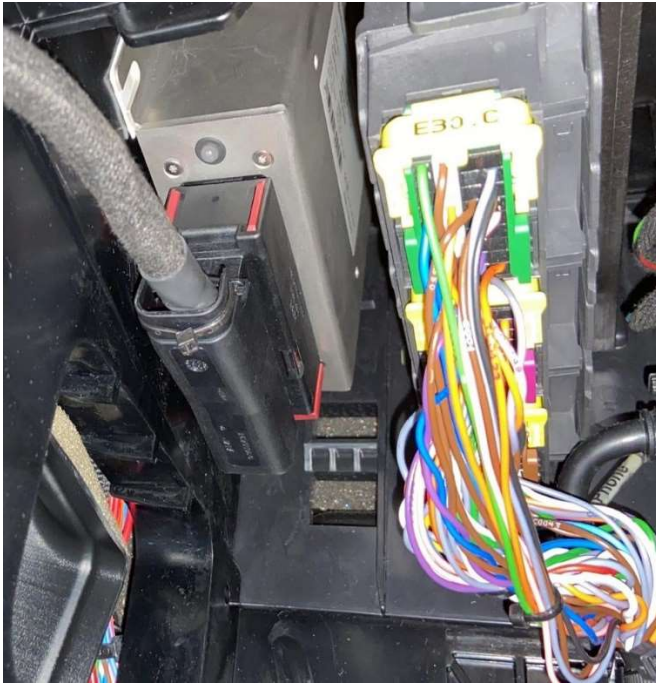
2.1 Lead-in wire radar



The radar sensor cable is positioned through the passage of the passenger door using a pull-cord or manually and then guided along into the vehicle interior



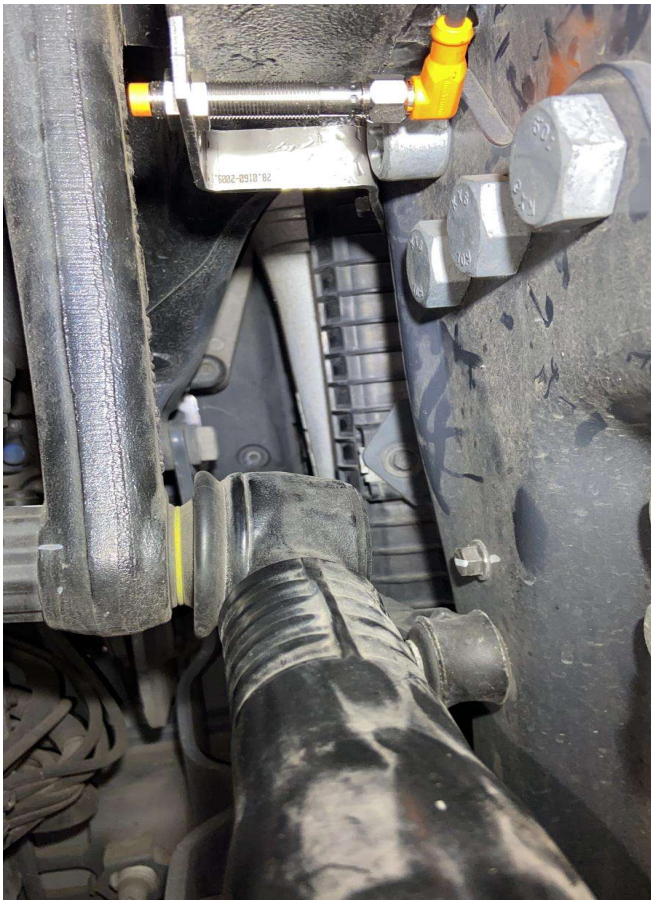
3. Mounting place ECU



The RTA-ECU can be mounted at the passenger side of the central electric unit. Select a suitable free space and connect and fix in place.



4. Mounting position steering angle sensor



The steering wheel sensor is mounted in the vicinity of the steering rod. This is situated at the left front wheel (driver side).

The holding strip has to be mounted underneath the screw.

The lower part of the holding strip should be bent back to prevent any movement (see arrow in picture below).



4.1 Bracket steering angle sensor



Photo with the measures of the mounting strip of the steering angle sensor.

Measures of the mounting strip bends in cm:

1. First bend after 8.5cm
2. Distance between first and second bend 5.5cm
3. Second bend to middle of the slot 4.6cm

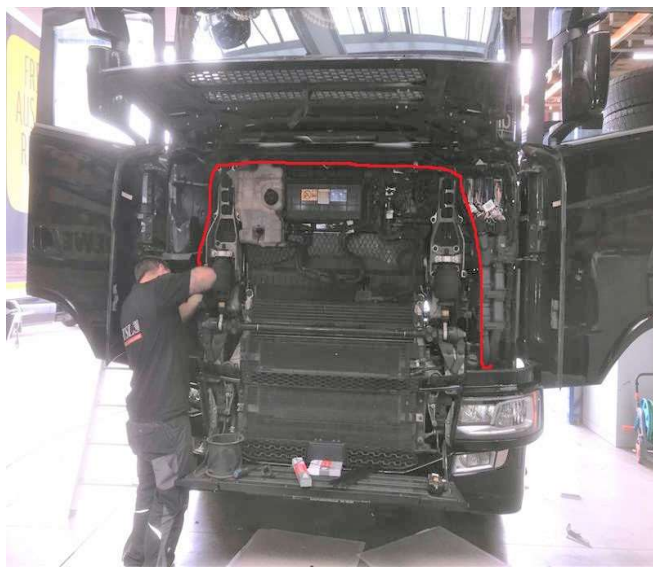
The steering wheel sensor has a distance of 2cm from the edge of the mounting strip to the orange coloured sensor head. Please ensure that the sensor head does not touch the steering rod and that the maximum distance of 7mm is not exceeded even if the steering wheel is turned completely towards the right.

The steering wheel sensor has to be activated from the start of the 25 meter curve radius to the fully turned right position.

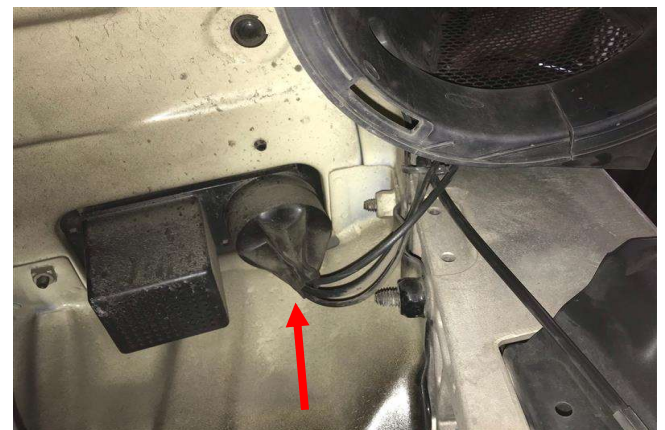
Tip: check both positions alternately and re-adjust the steering wheel sensor with the holder strip or move it within the holder strip.

The wheel position for the 25 meter curve radius can be calculated with the excel-tool auxiliary program.

4.2 Cable laying steering wheel sensor



Cable positioning (highlighted in red), of the steering wheel sensor underneath the service hood of the Scania NGT in the vehicle cabin to the central electric unit. (see arrow in picture below).



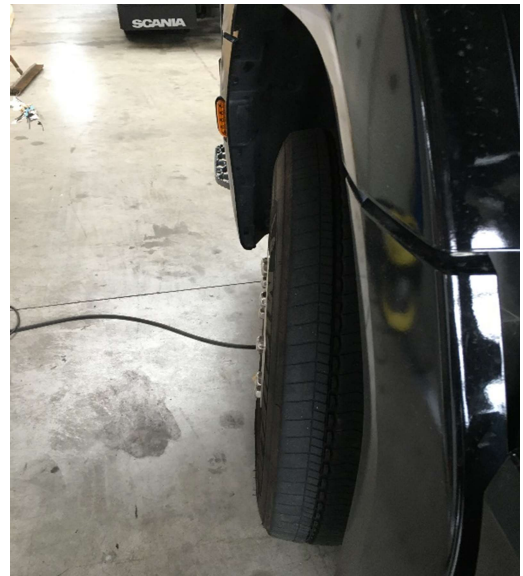
4.3 Steering wheel position at steering radius 25 meters



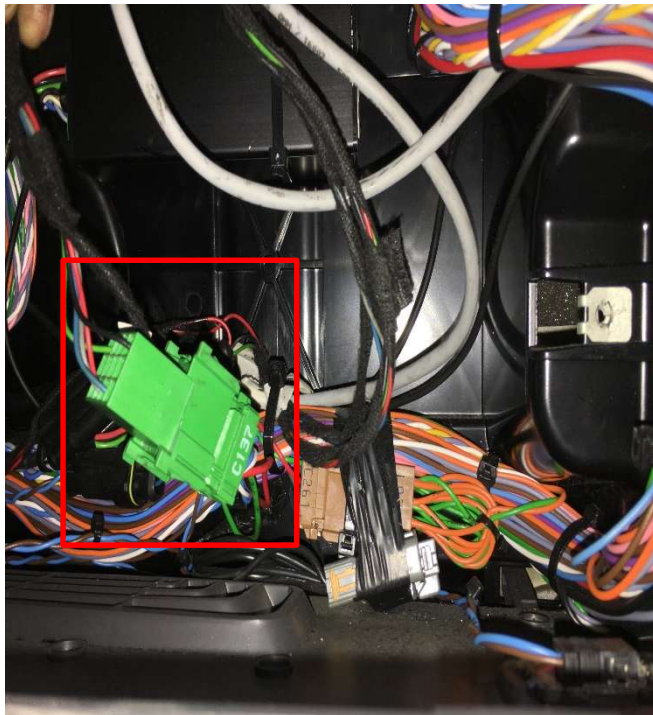
Place the wheels straight ahead for the starting position.

Turn the steering wheel $\frac{3}{4}$ + 5% approx. of a revolution to the right, then the LED's of the steering wheel angle sensor should go on and the system should be able to react..

Check the 25 meter curve radius with the excel tool or drive along the curve and mark the corresponding steering wheel and wheel positions.



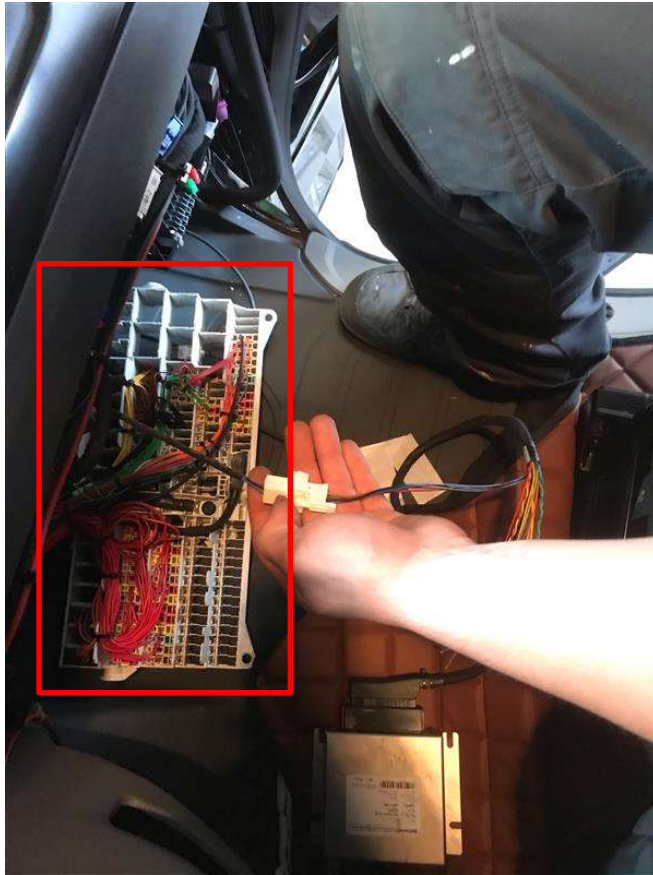
5. Speed signal



FMS preparations at the central electrical unit:
Connector C137 (green connector 12 pins)
PIN 6 Can-High -blue 250K/B
PIN 9 Can-Low -white 250K/B



6. Fuses for Terminal 15 and 30



Two fuses have been built-in at the passenger side of the vehicle in the fuse box.

Terminal 15 and terminal 30 are secured with a 10A fuse for each line.

The fuses can be mounted at the white protection compartment of the central electrical unit and the cables can be connected accordingly.

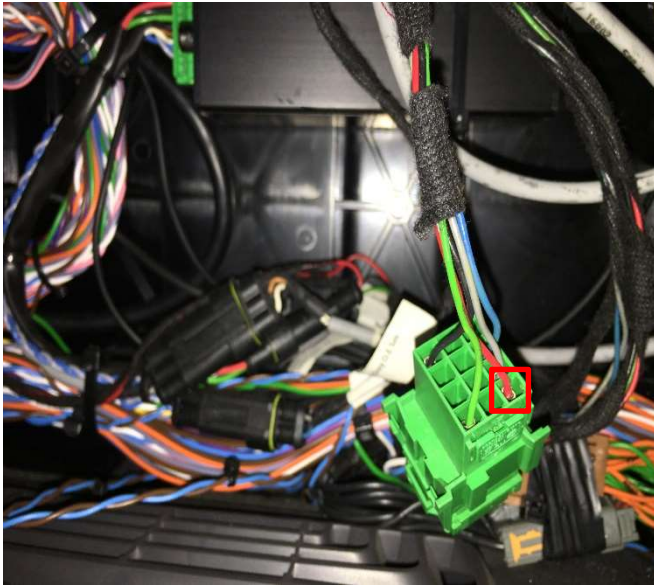
7. Terminal 15



At the passenger side of the central electrical unit:
Connector C137 (green connector 12 pins)
PIN 10 – green cable

Check the correct voltage connection with a multimeter.

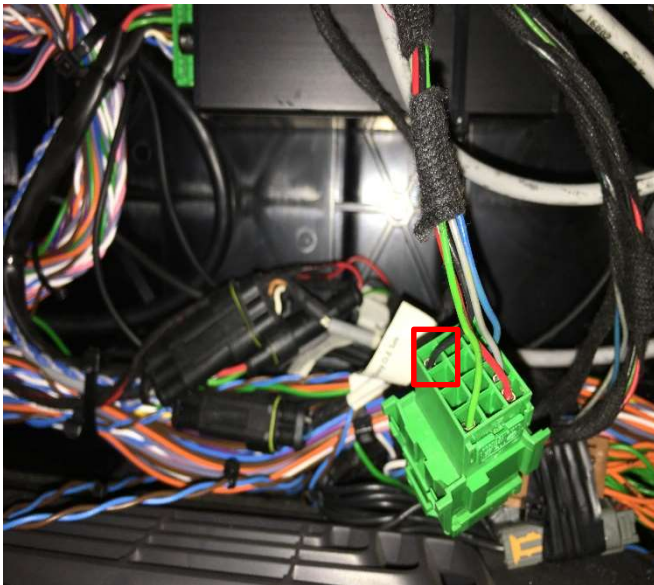
8. Terminal 30



At the passenger side of the central electrical unit:
Connector C137 (green connector 12 pins)
PIN 12 – red cable

Check the correct voltage connection with a multimeter.

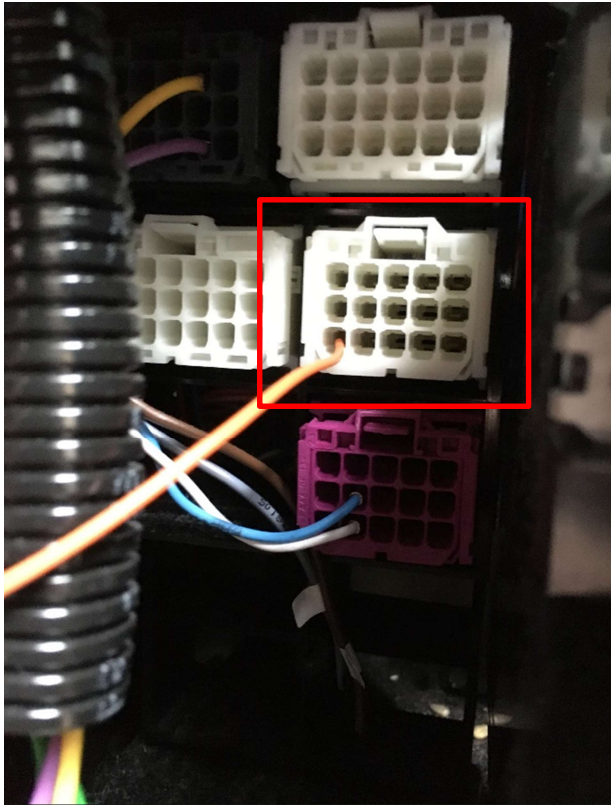
9. Terminal 31



At the passenger side of the central electrical unit:
Connector C137 (green connector 12 pins)
PIN 1 – black cable

Check the correct voltage connection with a multimeter.

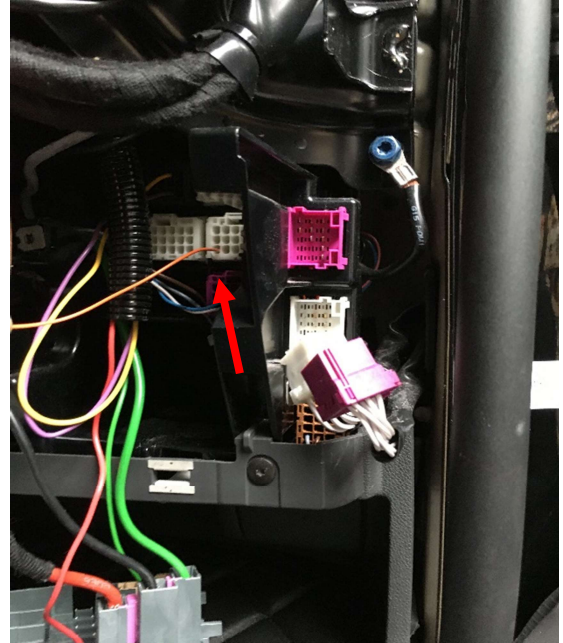
10. Indicator right



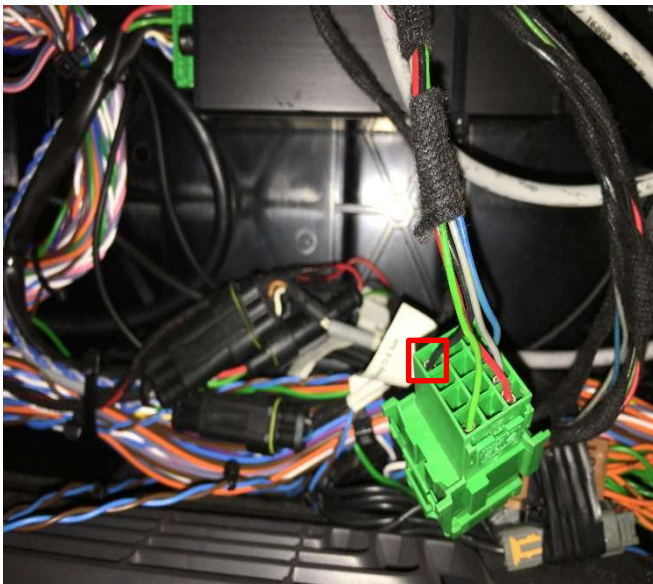
The right turn indicator has the following pin assignments:

Connector C489 (white connector 15 pins)

PIN 3 at the central electrical unit.



11. Setting of CAN baud rate



The vehicle ground (0V)=250kb can be connected at the multiple connector star point or at the terminal 31 of the central electrical unit

12. Mounting position signalbox



The signal box is mounted at the passenger side of the vehicle (A-column) at the same height as the rear view mirror so that the driver has it in his field of view while turning right.

The cable of the signal box is inserted as indicated by the red arrow into the A-column or at the loudspeaker and connected to the central electrical unit.

13. Function control

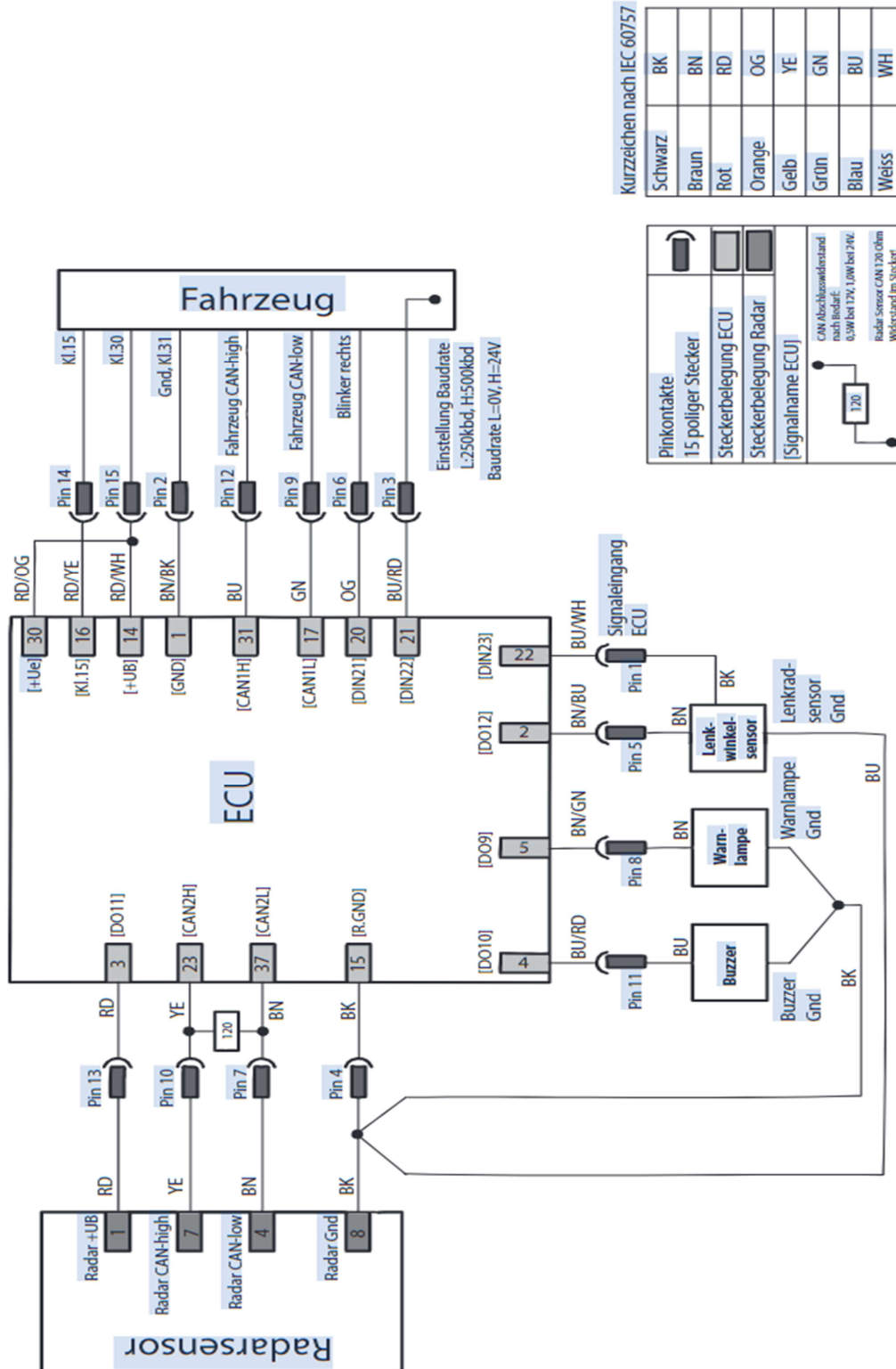


At this point please review the check list and ensure that every item has been carried out.

Activate the right turn indicator and walk from the rear around the vehicle. The warning lamp has to go on and the buzzer has to be audible.

Turn the steering wheel more than 3/4 to the right and walk from the rear around the vehicle. The warning lamp has to go on and the buzzer has to be audible.

13. Wiring diagram



Kurzzeichen nach IEC 60757

Schwarz	BK
Braun	BN
Rot	RD
Orange	OG
Gelb	YE
Grün	GN
Blau	BU
Weiss	WH

