App Instructions System Setup

ICA Turn-Assist XR45 Turn-off assistant

Blind Spot Information System

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Notes

• Complete the system installation before starting to set the parameters.
• Note that the control unit must be placed in a location that does not interfere with driving.
• The parameters must be set according to the actual setpoints of the installation position to ensure the efficiency of the radar detection and to avoid misbehaviour of the system.

Preparations

Tools needed:
• USB-CAN interface
• Distribution cable (Y connector)
• Measuring tape
• Laptop
• SystemSetup Software

Download at: https://www.axionag.de/service/download/cbc-xr45/

Vehicle dimensions:
• Measure and note the following values for later entry in the software (unit: m)
(1) Vehicle length
(2) Vehicle width
(3) Front overhang
(4) Wheelbase
(5) Distance from technical front edge of vehicle to centre of radar
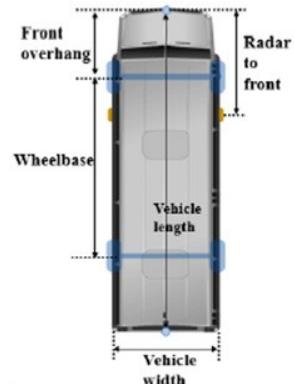
Connection of laptop and ICA-MCU45 control unit

- Use the distribution cable to connect the USB-CAN interface, the control unit and the laptop. It is connected to the F-Radar port.
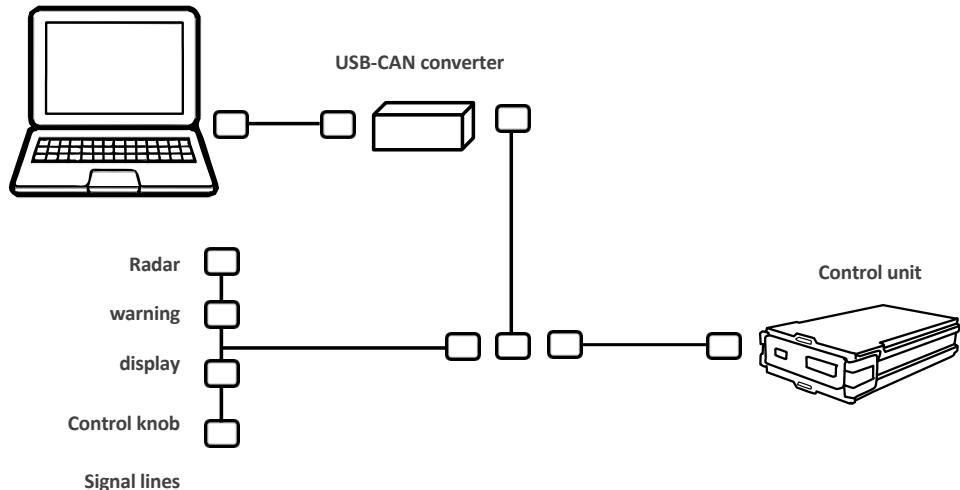
Switching on the ICA Turn Assist XR45

- Switch on the ignition or start the vehicle
- LED warning light lights up for 3 seconds
- The yellow and red colours light up in sequence for 1.5 seconds and the buzzer sounds for 3 seconds to indicate that the system is functioning normally.

Establishing the connection

- Start SystemSetting software
- Check correct ComPort
- Enter the registration number of the vehicle
- Select preferred language

System Parameterisation

- **Menu item "Radar**
- Enter the previously measured values, taking into account the possible range of values Important: Separator "." and unit **"m."**
- Click on **"Save"**: system connection is established and values are saved
- After successful saving, a confirmation window appears
- During the input, the respective value is displayed pictorially in the right-hand area as support
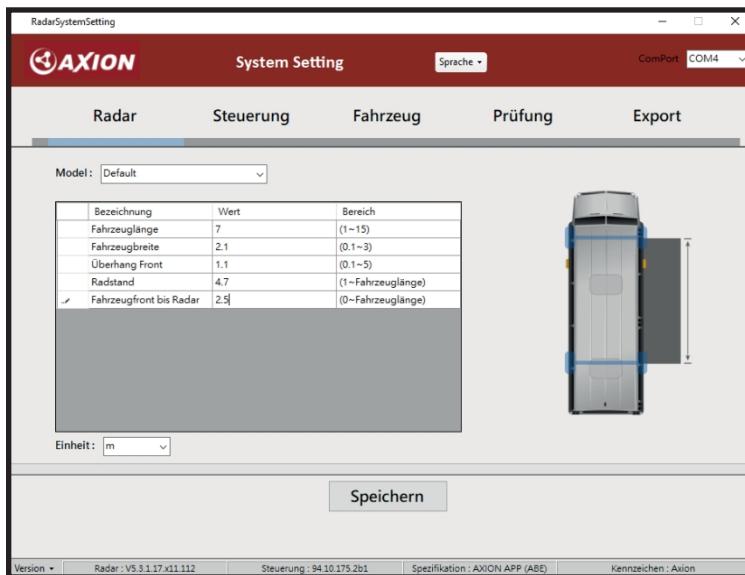
# Setting brightness LED- Warning light

- **Menu item "Control**
- Optional setting option
- Allows the brightness of the LED warning light to be set in day or night mode. Subsequent switching is possible through the external button ICA-EBT45
- System data is read out automatically
- The stored values are displayed in the window. The higher the value, the brighter the LED
- Enter the desired values
- Click on **"Save"** → Values are sent to the control unit
- After successful saving, a confirmation window appears
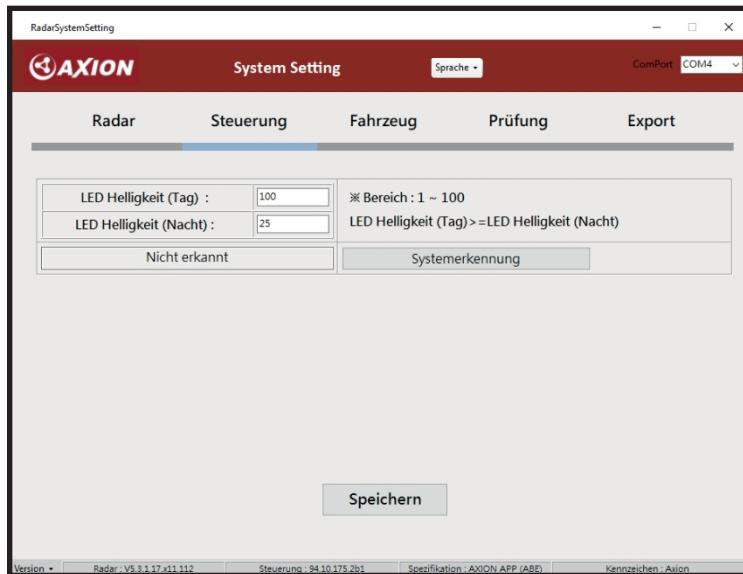
Setting the speed signal

- **Menu item "Vehicle**
- Attention: The adjustment is made while driving and must be carried out by two persons!
- This procedure checks the speed signal to ensure correct wiring and calibration.

Checking the speed signal

- Click on **"Connection"** → Confirmation window appears
- The speed signal is read via the analogue line
- During the connection, the indicator signal can also be checked in the illustration on the right → I ndi cat or switched on = yellow display
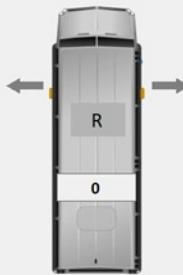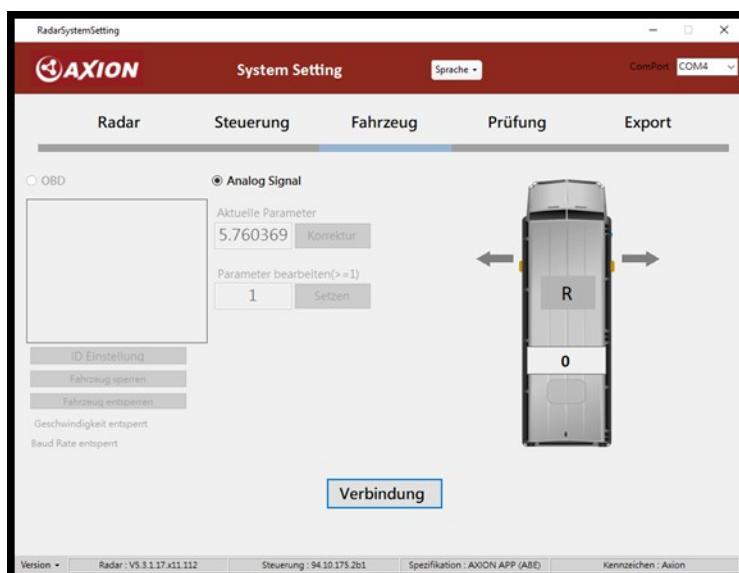
Calibration procedure:

- Accelerate the vehicle to 40 km/h and hold for 3 seconds
- The buzzer sounds depending on the speed being driven:
  - 0 km/h: Long tone
  - 40 km/h: Fast interval (0.1 s)
  - Neither 0 nor 40 km/h: Slow interval (0.25 s)
- If the buzzer at 40 km/h does not sound in the fast interval, a correction must be made →
  Click on **"Correction".**
- As soon as the speed is read correctly, the connection can be disconnected again.
  → Click on **"Connected**

Checking the detection range

- **Menu item "Examination**
- The check is only possible after the parameters have been saved correctly as described in chapter 2
- A helper is needed to move around the stationary vehicle.
- There should be at least 3 m of space around the vehicle and no interfering (especially metallic) objects in the radar's field of view.

Procedure of the review

(1) Click on "Connection" → Button turns green
(2) Click on "Start" → Button turns green
(3) The tester now moves around the vehicle at a distance of approx. 1 m as indicated
(4) There is a test block in each of the corners of the chart
(5) As soon as the detection was successful in the respective area, the block turns green
Note: When installing a radar, only the two test blocks on the corresponding side of the sensor are relevant.
(6) After the check: Click on "Stop
(7) Test result is displayed
Successful: Test successful NG:
An error has occurred
→ Check entered vehicle parameters
→ Check the installation position of the radar
→ Ensure sufficient free space in the walking area
(8) Disconnect after successful test
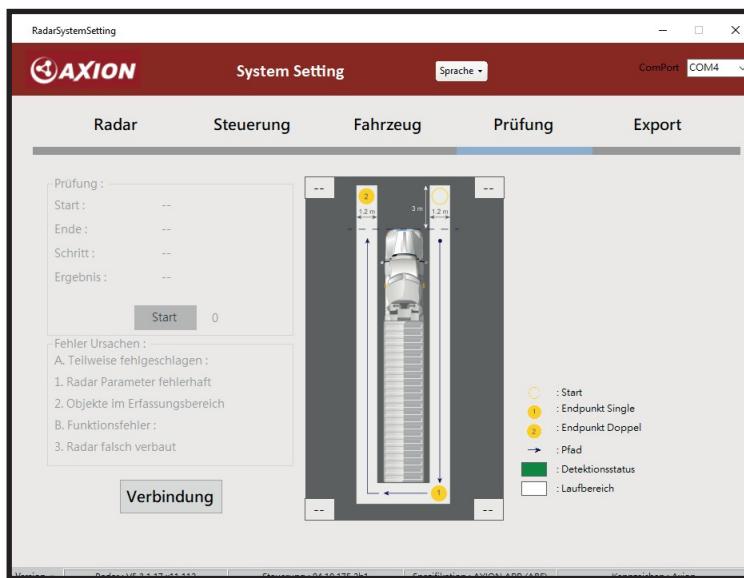
Export system settings

- **Export" menu item**
- This setting is used to document correct installation
- Fill in all values in the displayed table
- Confirm the vehicle data, functionality and installation position for correctness
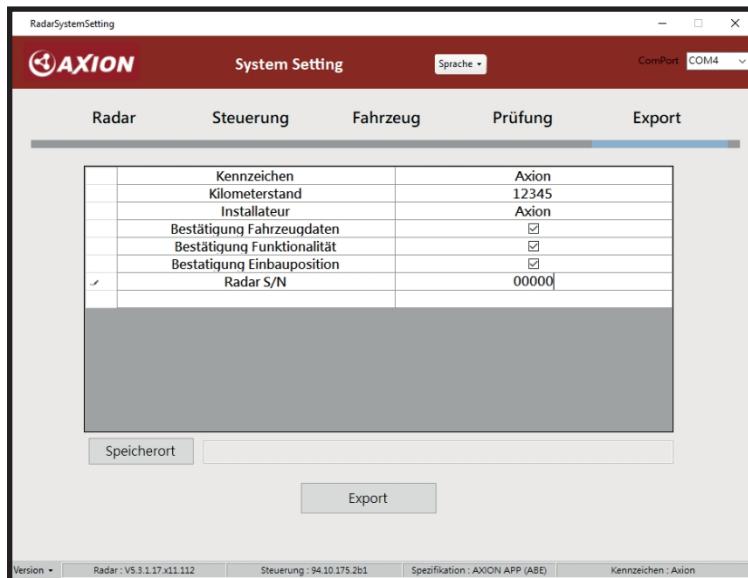
- If the images in the export do not capture the window correctly: Make sure that the scaling in the Windows display settings is at 100%.
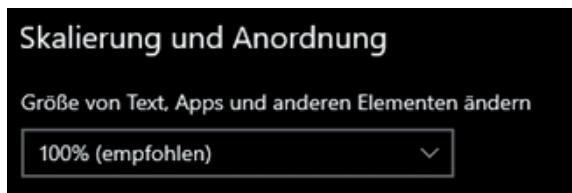
Troubleshooting

(1) Value is outside the range
Error indication that the input value exceeds its limit range. Enter the parameters correctly according to the limit range.

(2) Connection cannot be opened
Check the correct connection of the USB-CAN interface.

(3) Please check the data integrity
The entered value is invalid. Pay attention to the correct separator for input values (. = point)

(4) Error in radar correction
Check the mounting position of the radar. It may be mounted the wrong way round or outside the permitted angle tolerance.

(5) Connection failed
- Restart the system
- Check the connectors of the radar sensor and the control unit
- Check the supply voltage
- If the fault cannot be rectified, contact your specialist dealer or the manufacturer

(6) Loading failed
Check the correct connection of the USB-CAN interface

(7) Setting failed Restart the
system

(8) Separate
Check that the control unit is switched on correctly