

Installation Guidelines

Nokia Bluetooth Display Car Kit CK-15W



Please note: car accessories must be installed or repaired by qualified professionals only. Carefully read the User Guide and Installation Guide for each system to be installed.

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- Purpose of these guidelines
- Product overview
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Purpose of these guidelines

To provide the technical background information needed for carrying out professional installation.

Only a qualified service technician should install or service the car kit using the approved original Nokia parts supplied in the sales package. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the car kit. End users should remember that the car kit comprises complex technical equipment that requires professional installation using special tools and expert know-how.

Instructions given in this guide are general guidelines which apply for the installation of the car kit in an automobile. However, due to the wide variety of car types and models available on the market, this guide cannot consider the individual technical requirements relevant for any particular vehicle. Contact the vehicle manufacturer for detailed information about the vehicle in question.

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Product overview



Nokia Bluetooth Display Car Kit CK-15W

Example of connectivity

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Sales package content

- 1 = Loudspeaker SP-3
- 2 = Display SU-29
- 3 = Microphone MP-2
- 4 = Input device CU-8
- 5 = Hands-free unit HF-15
- 6 = Power cable PCU-4
- 7 = Clamps
- 8 = System cable CA-115



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Connectors

1 = Microphone

2 = Speaker

3 = Display

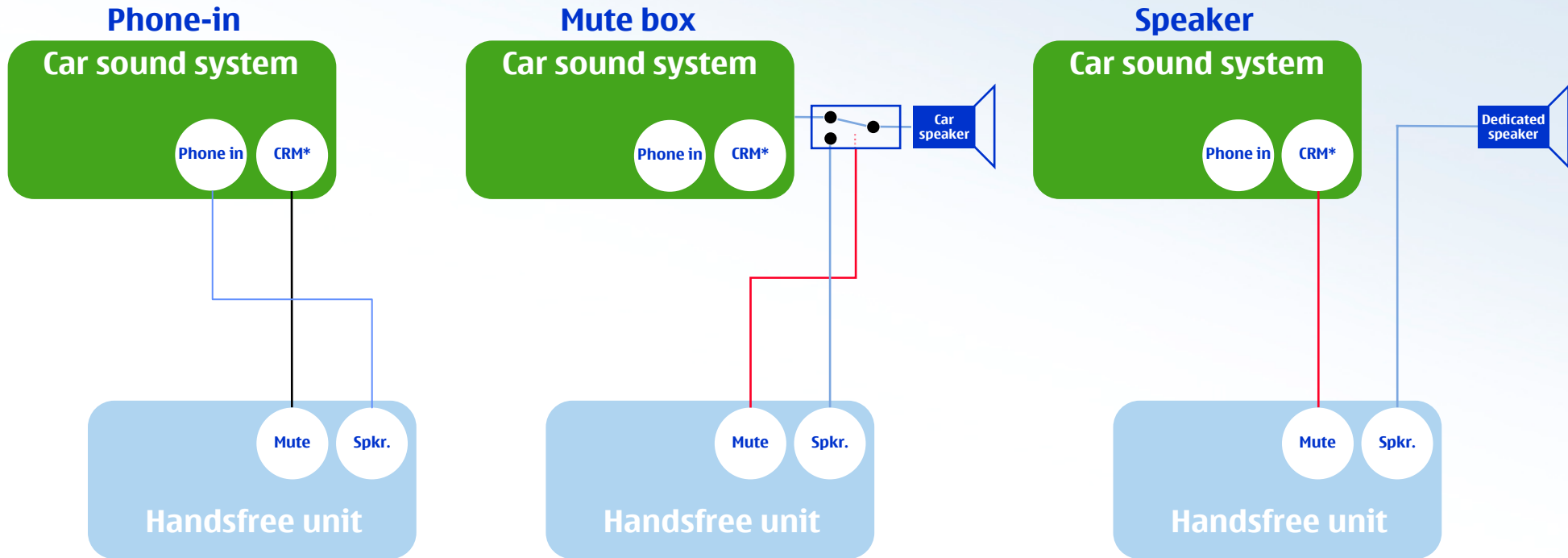
4 = Display

5 = Power cable



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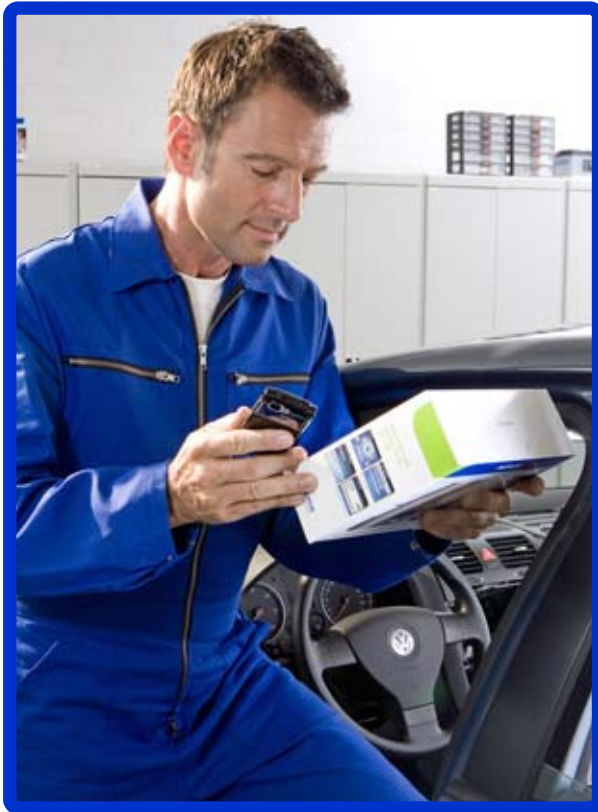
Options of installation



* Please note: CRM can be left open in the event that the car sound system does not support the connection.

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Connection options



Installation and placement of components in the car



Cable connections to the car kit



Various connections

In order to ensure correct car sound system mute, audio volume behavior, and voice must be handled differently.

Overview of connection options:

- Phone-in
- Mute box (i.e. relay to switch car speakers between sound system and car kit)
- Speaker



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Connection options

Car sound system phone-in

- Voice signal from the audio-out of the hands-free to phone-in port of the car sound system
- Mute signal from power cable to car sound system

Cables/Adapters needed:

- Adapter cable from audio-out (e.g. simply cut the cable of the speaker included in the sales package) to the phone-in of car sound system



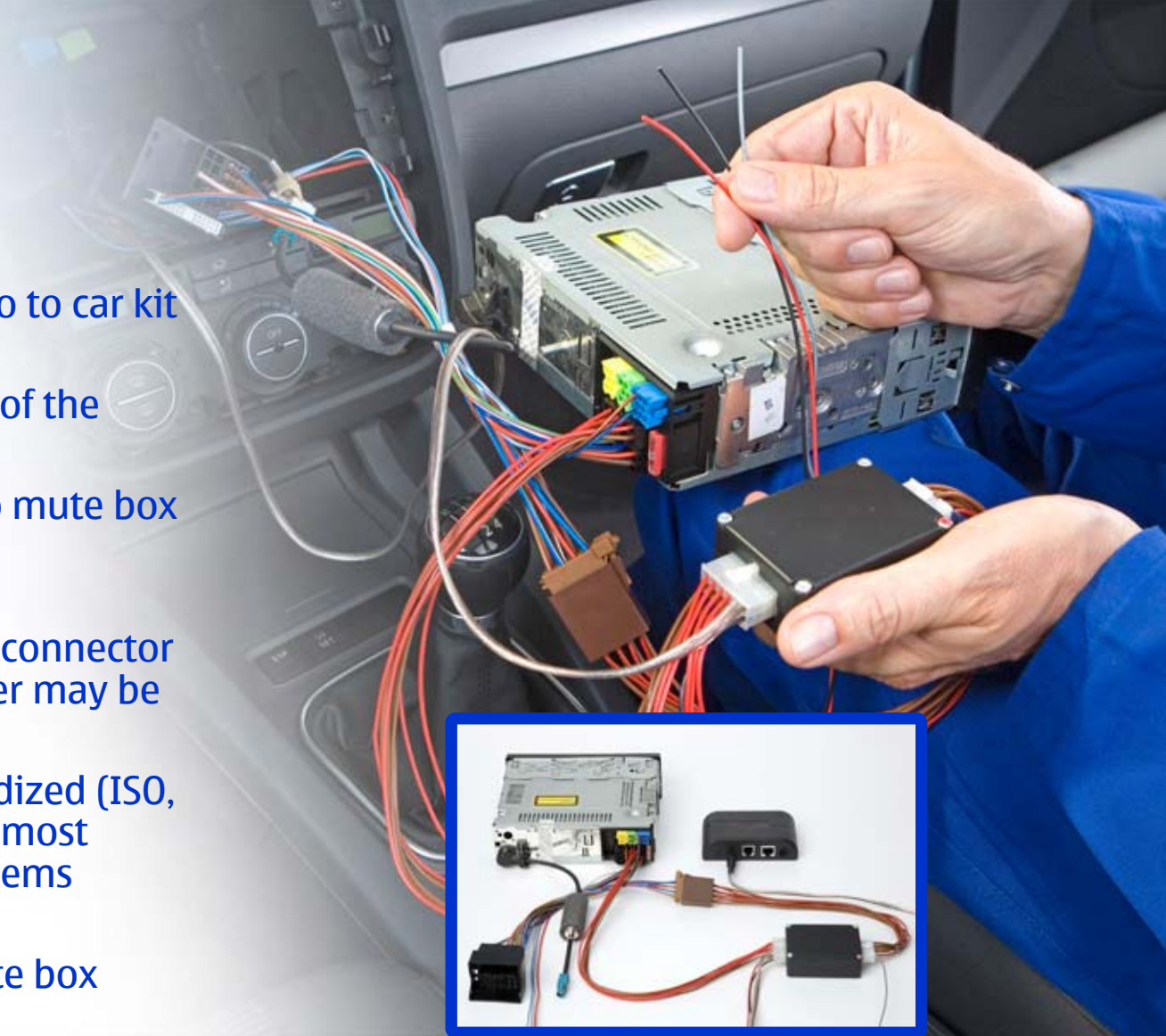
Connection options

Mute box

- Mute box switches from car radio to car kit and back
- Voice signal from the audio-out of the hands-free to mute box
- Mute signal from power cable to mute box

Cables/Adapters needed:

- Adapter from ISO to proprietary connector for car sound system and speaker may be required
- Speaker connectors not standardized (ISO, VDA etc.), but adapter cables for most aftermarket and OEM sound systems available
- Cable from audio-out to the mute box



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Connection options

Dedicated speaker

- Voice signal from the audio-out of the hands-free to speaker (cable permanently attached to speaker)
- Mute signal from power cable to car sound system

Cables/Adapters needed:

- Connector to transmit mute signal to car sound system may be required (e.g. mini-ISO, Fakra)



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Recommended placement of components



Display

Best place is on the dashboard in eye-sight.



Input device

Best place is on the center console within reach.

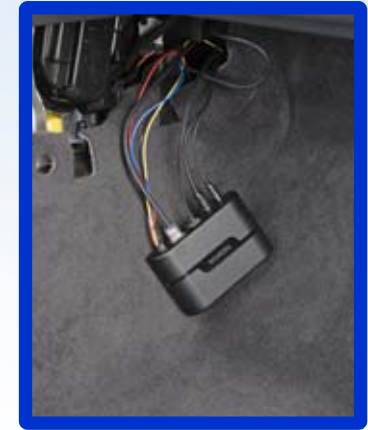


Microphone

Best place is near the rear mirror pointing to the driver's mouth.



Loudspeaker



Handsfree unit

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Optimum position of the external microphone

Installing the microphone close to the rear mirror

- Best place for installation is near the rear mirror
- Use the Velcro tape to properly fix the microphone
- Optimum performance is gained when the microphone points to the driver's mouth



Alternative ways of installing the external microphone

Alternatives

- Best place for installation is close to the rear mirror
- It is also possible to install the microphone at the A-pillar (when driving with open window noise might be disturbing the phone conversation at the other side)
- In both situations best performance is reached when the microphone points to the speaker's mouth
- To avoid echoes microphone should point to a different direction rather than to the loudspeaker



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Setup and check

- Check all cable connections to the car kit
- Check Bluetooth connection to a mobile phone



Functions to check	How to check?
Power, IGNS	Switch on/off: display and Navi wheel illumination should switch on and off
Display	Switch IGNS key on: display should be on
Input device	<ul style="list-style-type: none">• Switch IGNS key on: Navi wheel should be illuminated• Press buttons and/or rotate Navi wheel and see changes on the display
Bluetooth connection to phone	Check the connected device from the list on the car kit display
Car sound system mute	Place call while playing radio/CD
Audio connection to car	Place call to the phone connected to the car kit
Microphone	Place call and listen at other end

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Sound

- In case echoes can be heard at the far end tune speaker volume down (if connected to the car stereo system check whether input level can be turned down)
- Check that distance between microphone and speakers is as big as it could be
- Check that the microphone is not directly pointing to the speaker
- Check to ensure that phone is connected to car kit using Bluetooth technology
- For phone-in, check that mute signal is connected properly
- Check that the loudspeaker is not muted
- Check that the car kit microphone is not muted
- Determine whether the phone model is included in the compatibility list in the support area for the car kit at www.nokia.com/ck-15w

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Bluetooth connection

- Ensure that phone's Bluetooth feature is activated
- Make sure no other phone is connected to the car kit
- Ensure that phone is set to connect to the car kit automatically when the car kit is switched on

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Power supply 1

- Power cable

Identify the terminals for connecting the four wires that make up the cable harness of the car kit



Some vehicles do not come equipped with an IGNS connection. This connection is not necessary for operation of the Nokia Bluetooth Display Car Kit CK-15W. The blue wire can be left unconnected.

Main supply (red) wire:

The main supply wire must be connected to a main supply terminal. To do so, locate a main supply terminal/wire with a constant +12 V power supply. These are available at the:

- Car battery
- Fuse box
- Car sound system

Ignition-sensing (blue) wire:

To activate the ignition-sensing functionality, the ignition-sensing wire must be connected to either of the following:

- The ignition-sensing wire/terminal in the fuse box
- The sound system position-sensing terminal/wire located behind the sound system

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Power supply 2

- Power cable

Identify the terminals for connecting the four wires that make up the cable harness of the car kit



If the radio does not support the mute feature, use a relay to provide the feature (with the customer's consent). Read the car sound system manual before touching any wires behind the unit.

Ground (black) wire

The system must be connected to a ground point on the chassis of the car. Generally, a ground point can be found:

- Near the battery
- Near the fuse box
- Under the glove compartment

sound system mute (yellow) wire:

Nokia Car kits offer a feature that mutes the car sound system automatically during phone calls. To activate this feature, connect the mute wire to the mute terminal on the car sound system, if available.

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The availability of particular products and services may vary by region. Please check with the Nokia dealer nearest you.

Many jurisdictions have laws regarding the use of a phone in a vehicle environment. Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

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