

# Nokia Car Kit CK-200

## User and Installation Guide

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## DECLARATION OF CONFORMITY

Hereby, NOKIA CORPORATION declares that this CK-200 product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The product is in conformity with the limits defined in Directive 2004/104/EC (amending Directive 72/245/EEC), Annex I, paragraph 6.5, 6.6, 6.8 and 6.9. A copy of the Declaration of Conformity can be found at [http://www.nokia.com/phones/declaration\\_of\\_conformity/](http://www.nokia.com/phones/declaration_of_conformity/).

# CE 0560

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# Contents

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<b>For your safety</b> .....	5	connected devices.....	18
<b>Quick start</b> .....	6	Manual copying.....	18
First time setup.....	6	Automatic copying.....	18
Remote control.....	6	<b>Calls</b> .....	18
<b>1. Introduction</b> .....	8	Make a call.....	19
About this document.....	8	Answer or reject a call.....	20
Software updates.....	8	Mute the microphone.....	20
Bluetooth wireless technology.....	9	Adjust speaker volume.....	21
<b>2. Get started</b> .....	10	Manage two calls.....	21
Parts.....	10	Switch a call between the car kit and a connected device.....	21
Remote control CU-13R.....	11	Send tone strings.....	22
Display and standby mode.....	11	Recent calls.....	22
Display parts.....	11	View text messages.....	22
Attach the display to the mounting plate.....	11	My own key.....	22
Rotate the display.....	12	<b>4. Settings</b> .....	24
Information displayed in standby mode.....	12	Connection settings.....	24
Display indicators.....	13	Display settings.....	24
Insert the remote control battery.....	14	General settings.....	25
Navigate the menus.....	14	Audio settings.....	26
Switch the car kit on or off.....	15	<b>5. Troubleshooting</b> .....	27
Switch on.....	15	Reset the car kit.....	27
Switch off.....	15	Connection issues.....	27
First time use.....	15	Audio issues.....	27
Pair and connect the car kit.....	16	Other issues.....	28
Connect the car kit manually.....	16	<b>6. Installation</b> .....	29
Connect the car kit automatically.....	17	Safety information.....	29
Disconnect the car kit.....	17	Update the software.....	30
Connect the car kit to two devices.....	17	Install the car kit in a vehicle.....	31
<b>3. Basic use</b> .....	18	Junction box RX-73.....	32
Copy contacts from		Remote control CU-13R.....	33
		Display.....	35
		Installer settings.....	36
		Integration with a car radio system.....	36

Installation using the ISO cable CA-160.....	37	Check the operation of the car kit.....	43
Installation using the power cable CA-153P and an external speaker.....	39	<b>Care and maintenance.....</b>	<b>44</b>
Installation using the power cable CA-153P and direct input cable CA-161.....	41	<b>Additional safety information .....</b>	<b>45</b>
Optional accessories.....	42	<b>FCC/Industry Canada notice.....</b>	<b>46</b>
Charging cable .....	42		
Microphone .....	42		
External antenna .....	43		

## For your safety

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Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user and installation guide for further information.



### SWITCH ON SAFELY

Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.



### ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.



### INTERFERENCE

All wireless devices may be susceptible to interference, which could affect performance.



### SWITCH OFF IN RESTRICTED AREAS

Follow any restrictions. Switch the device off near fuel, chemicals, or blasting areas.



### QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



### ACCESSORIES

Use only approved accessories. Do not connect incompatible products.

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

## Quick start

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This section briefly describes the basic features of the car kit. For details, see the respective sections in this guide.

### ■ First time setup

1. Switch on the car kit (see p. 15) and your mobile device.
2. If you are prompted to select a language, turn the Navi™ wheel (hereafter referred to as wheel) to scroll to the desired language, and press the wheel.
3. Activate Bluetooth on your device, and set up a Bluetooth connection between the car kit and the device.

### ■ Remote control

1. Voice dialling / Mute key

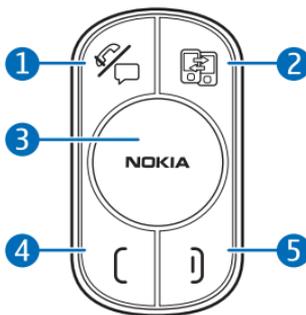
Press the voice dialling key to mute or unmute a call, or to activate voice dialling on a compatible mobile device when no call is in progress.

2. Switch key

Press the switch key to switch between the first and second (primary and secondary) connected devices when the Multipoint connection feature is activated.

3. Navi wheel

- To enter a phone number or to use speed dialling, in standby mode, turn the wheel left.
- To search for a contact in the contacts list, in standby mode, turn the wheel right.



- To adjust the volume during a call or to scroll through menu items, turn the wheel left or right.
  - To select, for example, *Menu* in standby mode or the highlighted function in the menu, press the wheel.
4. Call key
- To make or answer a call or to switch between an active call and a call on hold, press the call key.
  - To view the list of last dialled numbers in standby mode, press the call key.
  - To redial the last dialled number in standby mode, press the call key twice.
5. End key
- To end or reject a call, press the end key.
  - To delete the previously entered character when entering text or numbers, press the end key.
  - To return to the previous menu level or display view, press the end key.
  - To return to standby mode from the menu functions, press and hold the end key for about 2 seconds.

# 1. Introduction

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With the Nokia Car Kit CK-200, you can make and answer calls hands free. You can also copy the contacts list from your two compatible mobile devices to the car kit and view the copied contacts on the built-in display to make calls through the connected device.

The car kit comes with a wireless remote control that allows you to easily operate the car kit from a distance.

You can use Bluetooth to connect the car kit to two compatible devices at the same time.

Read this guide carefully before having the car kit professionally installed and before starting to use it. Also, read the user guide for the device that you connect to the car kit. For the latest guides, additional information, and downloads related to your Nokia product, go to [www.nokia.com/support](http://www.nokia.com/support).

This product may contain small parts. Keep them out of the reach of small children.



**Warning:** The plugs of this device may contain a small amount of nickel. Persons who are sensitised to nickel may have symptoms from prolonged skin contact with the plugs.

## ■ About this document

Setup and operation are described in "Get started", p. 10, "Basic use", p. 18, and "Settings", p. 24.

Troubleshooting tips can be found in "Troubleshooting", p. 27.

Installation in a car is described in "Installation", p. 29. The car kit should only be installed by a qualified service technician using the original Nokia parts supplied in the sales package.

## ■ Software updates

You can update the software of the car kit.

Download and install the Nokia car kit updater application from [www.nokia.com/support](http://www.nokia.com/support) to a compatible computer.

Use a USB data cable that has a standard USB plug at one end and a micro USB plug at the other end, to connect the car kit display to a computer. The cable is sold separately.

Open the updater application, and follow the displayed instructions. Keep the USB cable connected while the software is being updated.

## ■ Bluetooth wireless technology

Bluetooth wireless technology allows you to connect compatible devices without cables. The car kit and the other device do not need to be in line of sight, but they should be within 10 metres (33 feet) of each other. Connections may be subject to interference from other electronic devices.

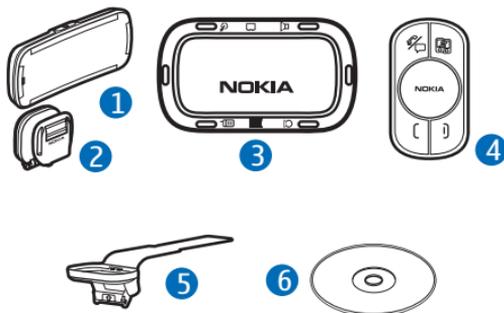
The car kit is compliant with the Bluetooth Specification 2.1 + EDR supporting the following profiles: the Hands-Free Profile (HFP) 1.5, Phone Book Access Profile (PBAP) 1.0, Object Push Profile (OPP) 1.1, and File Transfer Profile (FTP) 1.1. Check with the manufacturers of other devices to determine their compatibility with this device.

## 2. Get started

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### ■ Parts

The car kit contains the following parts:



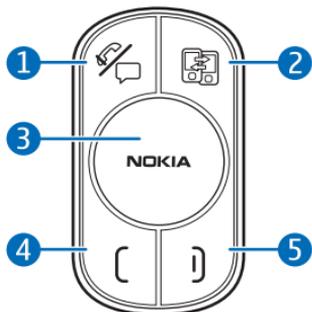
1. Main unit CK-200 with display
2. Mounting plate for main unit CK-200
3. Junction box RX-73
4. Remote control CU-13R with Navi wheel
5. Steering wheel mount for remote control CU-13R
6. CD that contains this guide

In addition, the sales package includes cables and other parts that are needed when installing the car kit.

## ■ Remote control CU-13R

You can use the remote control to operate the car kit. The device has a Navi wheel that you can turn or press.

1. Voice dialling / mute key
2. Switch key
3. Navi wheel
4. Call key
5. End key

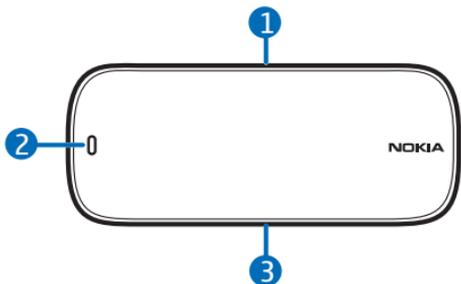


## ■ Display and standby mode

### Display parts

The display has the following parts:

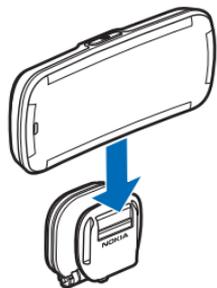
1. Power key
2. Microphone
3. Micro USB connector, used to update the car kit software from a compatible computer



### Attach the display to the mounting plate

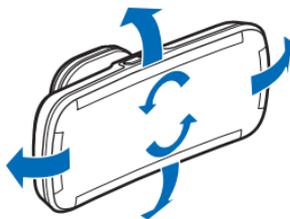
To use the car kit, slide the display onto the mounting plate.

To detach the display, switch off the car kit, and slide the display upwards from the mounting plate.



## Rotate the display

When the display is attached to the dashboard using the supplied mounting plate, you can rotate the display in the ball joint up to about 15 degrees left, right, up, or down.



Do not try to force the display to rotate further.

To adjust the angle of the mounting plate, loosen the screw at one end of the hinge on the plate, turn the plate in steps of 45 degrees, and tighten the screw.

## Information displayed in standby mode

When you switch on the car kit, it enters standby mode. In standby mode, the following information is displayed when the car kit is connected to a compatible device:



1. The signal strength of the cellular network at the current location, if this information is provided by the connected device; the higher the bar, the stronger the signal
2. The name of the service provider, if this information is provided by the connected device
3. The battery charge of the connected device, if this information is provided by the device; the higher the bar, the more power left. If the car kit is connected to two devices, the battery charge is displayed for the primary device.
4. The Bluetooth name of the connected device. If the car kit is connected to two devices, the primary device is displayed above the secondary one.
5. The *Menu* function that allows you to open the list of menu functions. To open the list, press the wheel.

To enter a phone number manually or to use speed dialling, turn the wheel left.

To search for a contact in the contacts list of the car kit, turn the wheel right.

To view the last dialled numbers, press the call key. See also "Recent calls", p. 22.

## Display indicators



You have an active call.



You have a call on hold.



There is an incoming call.



There is an outgoing call.



You have missed calls in the device that is displayed above the indicator.



The call is switched to the connected mobile device.



The Multipoint connection feature is activated, and you can connect the car kit to two devices.



You have received a new text message to the device that is displayed above the indicator.



You have muted the speakers connected to the car kit.



The car kit microphone is muted.



The car kit is copying contacts from a connected device.



Only call-related tones of the connected device are played through the car kit speakers.

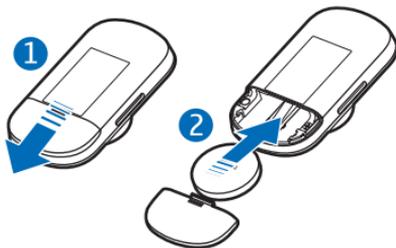
If the battery charge of the connected device is low, *Battery low* is briefly displayed.

If the battery charge of the remote control is low, *Remote control battery low* is displayed.

## ■ Insert the remote control battery

The wireless remote control is powered by one CR2032 lithium coin cell battery. Replace the battery only with the same or equivalent type.

1. Slide the cover away from the device (1).
2. Insert the battery with the negative (-) terminal pointing towards the circuit board, and slide the cover back into place (2).



To avoid short-circuits that may damage the battery, do not handle or store the battery with metal objects.

To avoid battery leaks, remove the battery if the remote control is not used for a month or longer.

If the battery leaks, wipe the remote control completely clean, and install a new battery.

If the lithium coin battery is swallowed, seek medical attention immediately. If the battery becomes lodged in the oesophagus, remove it immediately.

Extreme temperatures reduce the performance and lifetime of the battery. The remote control may not work or *Remote control battery low* may be displayed temporarily in temperatures well below freezing.

## ■ Navigate the menus

To open the list of menu functions in standby mode, press the wheel when *Menu* is displayed.

To scroll to an item (such as a menu function) or through a list, turn the wheel. To select an item, scroll to the item, and press the wheel.

To return to the previous menu level, press the end key.

To return from the menu functions to standby mode, press and hold the end key for about 2 seconds.

## ■ Switch the car kit on or off

If you are not certain whether the ignition sense wire is connected or not, consult with the technician who installed the car kit.

Before you use the car kit, make sure the display is firmly in place on the mounting plate.

### Switch on

If the ignition sense wire is connected, the car kit switches on when you turn on the car engine.

If the ignition sense wire is not connected, press the power key.

After the car kit switches on, it tries to make a Bluetooth connection to one or two last connected devices, depending on the Multipoint connection setting.

If no device is connected to the car kit within 10 minutes, the car kit automatically switches off.

### Switch off

If the ignition sense wire is connected, turn off the car engine, or press the power key. If you have a call in progress on your device connected to the car kit, press the power key to switch the call to the device and then switch off the car kit.

If the ignition sense wire is not connected, to switch off the car kit, press the power key. If the ignition sense wire is not connected and you disconnect your device from the car kit (for example, to take it with you), the car kit automatically switches off after 10 minutes.



**Tip:** After you turn off the car engine, do not leave the mobile device connected to the car kit, to prevent accidental draining of the car battery.

## ■ First time use

When you switch on the car kit for the first time, you are asked to select the language to use. Turn the wheel to scroll to the desired language, and press the wheel.

After the language selection, you are asked to pair and connect the car kit to a compatible Bluetooth device. See "Pair and connect the car kit", p. 16.

## ■ Pair and connect the car kit

Before using the car kit, you must associate (pair) and connect it to a compatible mobile device that supports Bluetooth wireless technology.

You can pair the car kit with up to eight devices and connect it to two devices that support the HFP Bluetooth profile at a time.

To pair and connect the car kit to a compatible device:

1. If the car kit has not been previously paired with a device, switch on the car kit and your device. The car kit enters pairing mode.

If you have previously paired with a device, to pair with another device, in standby mode, select *Menu* > *Settings* > *Connection* > *Connection manager* > *Pair new device*.

2. Within 3 minutes, activate Bluetooth on your device, and set it to search for Bluetooth devices. For instructions, see the user guide of your device.
3. On your device, select the car kit (Nokia CK-200) from the list of found devices.
4. On your device, enter the Bluetooth passcode 0000, to pair and connect the device to the car kit.

In some devices, you may need to make the connection separately after pairing.

If pairing succeeds, the car kit is displayed in the list of currently paired Bluetooth devices in your device, and the paired device is displayed in the Connection manager menu of the car kit.

When the car kit is connected to your device and ready for use, the Bluetooth name of the device is displayed.

## Connect the car kit manually

When you switch on the car kit, it tries to connect to one or two last connected devices, depending on the Multipoint connection setting.

To manually connect the car kit to a device (for example, after connection loss), make sure the device is switched on, and, in standby mode, select *Menu > Settings > Connection > Connection manager* and the device.

### **Connect the car kit automatically**

You may be able to set your mobile device so that the car kit connects to it automatically. To activate this feature, modify the paired device settings in the Bluetooth menu of your device.

### **Disconnect the car kit**

To disconnect the car kit from your mobile device, close the connection in the Bluetooth menu of your device. Alternatively, in standby mode, select *Menu > Settings > Connection > Connection manager* and the device you want to disconnect.

## **■ Connect the car kit to two devices**

You can connect the car kit simultaneously to two compatible Bluetooth devices by default. To allow the car kit to connect to only one device at a time, in standby mode, select *Menu > Settings > Connection > Multipoint connection > off*. If you select *on*, the car kit can be connected to two devices, and  is displayed.

When you switch on the car kit and it connects to two devices, the first connected device becomes the primary device and the other device the secondary device. In standby mode, the name of the primary device is shown above the secondary one. To set the secondary device as primary or vice versa, press the switch key.

## 3. Basic use

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### ■ Copy contacts from connected devices

You can copy contacts (names and phone numbers) from compatible mobile devices that you connect to the car kit.

 is displayed during copying. Copying may take several minutes, depending on the number of contacts. While the contacts are being copied, you cannot use the car kit.

### Manual copying

If automatic copying is deactivated, you can copy the contacts manually.

If your device supports the PBAP Bluetooth profile or AT commands, in standby mode, select *Menu* > *Settings* > *General* > *Start contact download*.

If your device does not support the PBAP Bluetooth profile, but it supports the OPP Bluetooth profile, in your device, send the contacts as business cards to the car kit.

### Automatic copying

If you have activated the *Automatic contact download* setting, the car kit automatically tries to copy the contacts from your device when the device connects to the car kit. To activate automatic copying, in standby mode, select *Menu* > *Settings* > *General* > *Automatic contact download* > *on*.

If you have activated automatic copying, each time you connect your device to the car kit, the contacts saved in the car kit are updated.

### ■ Calls

During a call, speak towards the display or the external microphone that is connected to the car kit. For optimal performance, make sure there are no objects in front of the microphone. During a call,  is displayed.

You can only use the contacts of connected devices if you have copied them to the car kit.

## **Make a call**

You can use the remote control to make calls only on the primary device. To make a call on the secondary device, set the device as primary, or make the call from that device.

Instead of using the remote control, you can also make a call from the primary device. Use the device in the normal way for calling.

To end the call (or cancel the call attempt), press the end key. If the battery charge of the remote control is low, press the power key.

## **Dial a phone number**

To use the remote control to enter the phone number, in standby mode, turn the wheel left, or select *Menu > Number entry*. To dial a phone number during a call, select *Call options > Number entry*.

Select the digits one by one. (To delete the previously entered digit, press the end key.) When the phone number is displayed, press the call key, or select *✓*.

## **Call a contact**

To call a contact that you have copied to the car kit, in standby mode, turn the wheel right, or select *Menu > Contacts*. To access the contacts list during a call, select *Call options > Contacts*.

Select the first character of the contact, scroll to the contact, and press the wheel or the call key. If the contact has several numbers, first select the desired number, and then press the wheel or the call key.

## **Call a recently dialled number**

To redial the number you last called (if your device supports this feature with the car kit), press the call key twice when no call is in progress.

To call a recently dialled number, press the call key, scroll to the desired name or phone number, and press the wheel or the call key.

If the car kit is connected to two devices, the call is made on the primary device.

## Voice dialling

To activate voice dialling (if your device supports this feature with the car kit), press the voice dialling key when no call is in progress. Say the voice tag of the desired contact clearly. If the car kit is connected to two devices, voice dialling is activated on the primary device.

For details on voice dialling, see the user guide of your device.

## Speed dialling

Speed dialling is a quick way to call frequently used phone numbers.

To use speed dialling, turn the wheel left in standby mode, scroll to the desired speed dial number (1-9), and press the call key.

To assign a phone number to a speed dial number, see "General settings", p. 25.

## Answer or reject a call

When you receive a call, you hear a ringing tone through the speakers connected to the car kit. The caller's number is displayed if the cellular network supports this function. The name saved with the number is displayed if you have copied the name and number to the car kit. If the name and number are not available, *Private number* is displayed.

To answer the call on the primary or secondary device, press the call key or the wheel. If the battery of the remote control is discharged, press the power key of the car kit.

To reject the call, press the end key.

## ■ Mute the microphone

To mute or unmute the microphone during a call, press the voice dialling / mute key. Alternatively, select *Call options* and the desired function.

 indicates that the microphone is muted.

## ■ Adjust speaker volume

To adjust the speaker volume during a call, turn the wheel. The selected volume is saved for the current device. To set the default volume for calls, see "Audio settings", p. 26.

To mute the speakers, set the volume to the lowest level.  is displayed.

## ■ Manage two calls

You can have two calls at the same time on one of the connected devices and handle the calls from the car kit.

To answer a waiting call and end the active call, press the end key.

To answer a waiting call and put the active call on hold, press the call key. When the call is on hold,  is displayed.

To reject a waiting call, select *Call options* > *Reject incoming call*.

To end the active call and make the call on hold active, press the end key.

To switch between the active call and the call on hold, press the call key.

When the car kit is connected to two devices and you receive a call to the other device while you have an active call on one of the devices, first end the active call and then answer the call, or answer the call from the device. If you answer the call from the device, only the device functions can be used to manage the call.

## ■ Switch a call between the car kit and a connected device

To switch a call between the car kit and a connected device, select *Call options* > *Activate handset* or *Activate handsfree*. Some mobile devices may close the Bluetooth connection until the call ends.  indicates that the call is switched to the device.

## ■ Send tone strings

To send a tone string such as a password (network service) during a call, select *Call options* > *Send DTMF*. Select the characters one by one. (To delete the previously entered character, press the end key.) To send the string, select ✓, or press the call key.

## ■ Recent calls

When you connect a compatible mobile device to the car kit, the car kit automatically copies the phone numbers of recent missed, received, and dialled calls from the device, if these functions are supported by the device and the cellular network.

To view recent calls, in standby mode, select *Menu* > *Recent calls* and a call type. Scroll to a contact, and press the wheel to view the call details, or press the call key to call the contact.

When you have missed calls,  is displayed.

## ■ View text messages

The *Messages* menu is only displayed if the connected device supports the Nokia proprietary connectivity interface (LCIF).

If you receive a text message (network service) when the car kit is connected to a compatible Nokia device,  is displayed.

To view a new message from a compatible Nokia device, select *Menu* > *Messages* and the message.

To call the sender of the displayed message, press the call key. Alternatively, press the wheel, and select *Call sender*.

For compatibility, go to [www.nokia.com/support](http://www.nokia.com/support).

## ■ My own key

The My own key menu is only displayed if the Nokia Accessory Setup Application is installed in the device that is connected to the car kit.

If the application is not already installed in your device, to check the availability for your device, go to [www.nokia.com/support](http://www.nokia.com/support).

When you select this menu, the car kit performs the function that you have specified for a short press of the My own key in the Nokia Accessory Setup Application. You can set the car kit to read out loud a new text message, call your favourite number, or reject a call and send a predefined text message. For details, read the help of the application.

## 4. Settings

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### ■ Connection settings

To manage Bluetooth connections, in standby mode, select *Menu* > *Settings* > *Connection* and from the following:

- *Connection manager* – To pair and connect the car kit to a compatible device, select *Pair new device*. To connect the car kit to a previously paired device or disconnect a device, select the device from the list.
- *Multipoint connection* – You can connect the car kit to two devices at the same time. If you select *off*, the car kit can be connected to only one device at a time. When the car kit can connect to two devices,  is displayed.

If the car kit can connect to two devices at a time and you use the redialling or voice dialling features, the call is made on the primary device.

- *Delete paired devices* – Select the device that you want to delete from the list of paired devices. If you select *Delete all pairings*, pairings to all devices are deleted, and the car kit must be paired with a device for use.

### ■ Display settings

In standby mode, select *Menu* > *Settings* > *Display* and from the following:

- *Brightness* – Select the desired level for display brightness.
- *Night mode* – Activate or deactivate night mode. If you select *on*, the display backlight is dimmer.
- *Display color* – Select the colour for the display backlight. To define your own colour, select *Custom*, and turn the wheel to set the amount of red (R), green (G), and blue (B) in the colour. To move between these tones, press the wheel.
- *Auto dimming* – Select the time after which the display is dimmed.

## ■ General settings

In standby mode, select *Menu* > *Settings* > *General* and from the following:

- *Speed dials* – Assign phone numbers to the speed dial numbers (1-9) for the connected device (if two devices connected, the primary device). Select an unassigned speed dial number. To assign a contact, select *Contacts*. To manually enter a number, select *Number entry*.

To replace the contact that is assigned to a speed dial number, select the speed dial number and *Replace*.

To view the contact that is assigned to a speed dial number, select the speed dial number, contact, and *View number*. To call the number, press the wheel or the call key.

To delete a contact from a speed dial number, select the speed dial number and *Delete*. The contact is deleted only from the speed dial number list, not from the contacts list.

To make a call using speed dialling, see “Speed dialling”, p. 20.

- *Contacts view* – Select whether the contacts copied to the car kit are displayed one by one or as a list.
- *Name display* – Select whether the contacts list is sorted by first name or last name.
- *Automatic answer* – Activate or deactivate automatic answer. If you select *on*, the car kit automatically answers an incoming call after two rings.
- *Language* – Select the language used.
- *Start contact download* – Copy the contacts from the connected primary device to the car kit. When the contacts are being copied,  is displayed.
- *Automatic contact download* – Set the car kit to automatically update the contacts from a compatible device each time you connect it to the car kit. The car kit cannot be used during copying.
- *Product info* – View information about the car kit.

- *Delete personal data* – Delete contacts, speed dial numbers, or call lists from the car kit.
- *Restore factory settings* – Reset the car kit settings to the default values.

### ■ Audio settings

In standby mode, select *Menu* > *Settings* > *Audio* and from the following:

- *Audible menu* – Set the car kit to play some display texts, such as the names of main menus. For information on available languages, go to [www.nokia.com/support](http://www.nokia.com/support).
- *Audio routing* – Select which sounds of the connected device are played through the car kit speakers, muting the car radio. If you select *All device sounds*, all the sounds are played. If you select *Calls only*, only the call-related tones are played, and  is displayed.
- *Default volume* – Select the default volume for speakers. To save the setting, press the wheel.
- *Car kit warning tones* – Activate or deactivate the warning tones of the car kit.

## 5. Troubleshooting

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### ■ Reset the car kit

The car kit doesn't react to my actions. How can I reset it?

Slide the display up from the mounting plate for 10 seconds.

### ■ Connection issues

I can't use Bluetooth to connect the car kit to my device.

- Make sure the car kit is switched on and paired with your device.
- Make sure Bluetooth is activated on your device, and authorise the car kit to connect to the device.

### ■ Audio issues

My voice echoes on the other end of the line.

- Lower the volume of your car speaker. If the car kit is connected to your car stereo system, lower the input level, if possible.
- Make sure the distance between the microphone and speakers is optimal.
- Make sure the microphone does not point towards the speaker.

The speaker at the other end can't hear my voice during a call.

- Make sure the device is properly connected to the car kit through a Bluetooth connection.
- Speak towards the display or the optional external microphone that is connected to the car kit. For optimal performance, make sure there are no objects in front of the microphone.
- Make sure you have not accidentally muted the microphone.

The audio quality isn't good or I can't hear sound.

- If the car kit is connected to the car radio, make sure the car radio volume is set properly.

- If the car kit is connected to an optional speaker, check that the car kit volume is set properly.
- Make sure you have not accidentally muted the speaker volume.
- Make sure your car radio is switched on.

### **The car radio isn't muted when I answer a call.**

Ask the technician who installed the car kit to make sure the car radio mute wire is properly connected. Not all cars have the mute wire.

## ■ Other issues

### **The car kit doesn't switch on when I turn on the car ignition.**

Ask the technician who installed the car kit to make sure the ignition sense wire is properly connected. If your car does not support ignition sense, to switch the car kit on or off, press the power key of the car kit.

### **The remote control doesn't work.**

Replace the battery. If the remote control cannot be used, to answer or end a call, press the power key of the display.

## 6. Installation

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### ■ Safety information

Observe the following safety guidelines when installing the car kit.

- 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 of complex technical equipment that requires professional installation using special tools and expert know-how.

- Instructions given in this guide are general guidelines that apply to 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.
- The car kit is designed to be connected directly to a vehicle with a 12 V, negative grounding. Connection to a 24 V system requires a 24 V to 12 V converter to be used in the VBatt line. The ignition line can be connected directly to the 24 V system.

The car kit has in-built protection for over voltage, but a connection using the wrong polarity might damage the unit.

- Remember that modern automotive systems include onboard computers where key vehicle parameters are stored. Improper disconnection of the car battery may cause loss of data, necessitating extensive effort for reinitialisation of the system. If you have any concerns, contact your car dealer before any installation work is done.
- Do not wire the car kit equipment to the high-voltage lines of the ignition system.

- When installing the parts of the car kit, make sure none of them interfere with or hinder the steering or braking systems or other controls or systems used in the operation of the vehicle (for example, airbags). Make sure the car kit and any of its components are not installed where you might come in contact with it in the event of an accident or collision.

If the display of a mobile device is to be used, make sure the device is mounted in a holder and that the device display is clearly visible to the user.

- Your service technician or dealer may be able to provide you with information on alternatives for mounting the equipment suitably in your vehicle without requiring bore holes.
- Do not smoke when working on the car. Make sure there is no source of fire or flame nearby.
- Take care not to cause damage to electrical cables, fuel or brake lines, or safety equipment during installation work.
- RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and airbag systems. If you notice a fault or change in the operation of such a system, contact your car dealer.
- Make sure cables are placed so that they will not be subject to mechanical wear and tear (for example, not laid under car seats or over sharp edges).

### ■ Update the software

Before you install the car kit, update the software of the car kit to the latest version.

Download and install the Nokia car kit updater application from [www.nokia.com/support](http://www.nokia.com/support) to a compatible computer.

Use a USB data cable that has a standard USB plug at one end and a micro USB plug at the other end, to connect the car kit display to a computer. The cable is sold separately.

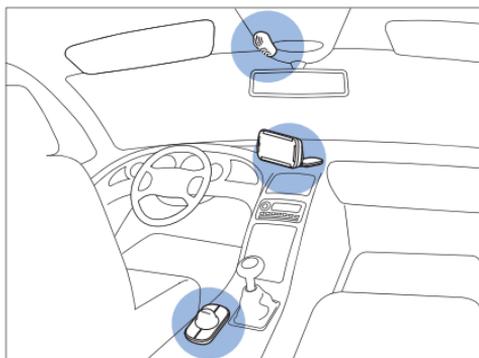
Open the updater application, and follow the displayed instructions. Keep the USB cable connected while the software is being updated.

## ■ Install the car kit in a vehicle

This section describes how to install the car kit parts in a vehicle. The parts are explained in "Parts", p. 10.

When installing the parts of the car kit, make sure none of them interfere with or hinder the steering or braking systems or other controls or systems used in the operation of the vehicle (for example, airbags). Do not use screws to install the display if you mount it within the head impact area. Use the supplied adhesive instead.

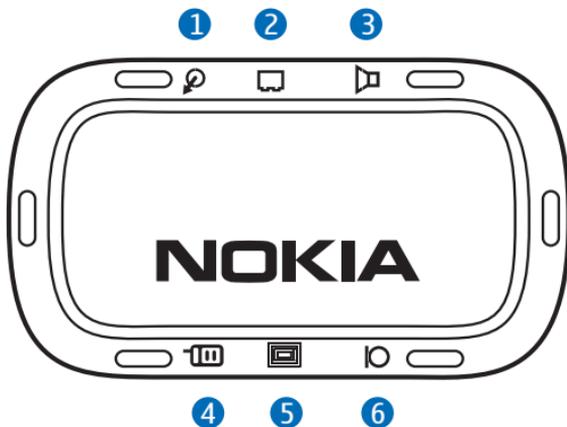
Installation of the car kit may cause warning or other alert tones in the vehicle (such as reversing warning tones or lights left on alerts) to be muted. For further information, contact the manufacturer of the vehicle or its representative.



*Example of appropriate installation, with the remote control mounted to the console and with an optional external microphone. The external microphone is only needed in noisy car environments.*

## Junction box RX-73

The junction box has the following connectors:



1. Connector for direct input cable CA-161
2. Connector for power cable CA-153P or power cable of ISO cable CA-160
3. Connector for optional speaker (such as Nokia SP-3) or speaker cable of ISO cable CA-160
4. Connector for optional charging cable (such as CA-159)
5. Connector for display cable CA-165
6. Connector for optional external microphone (such as MP-2)

When you install the junction box, make sure the cables for the microphone and speaker reach the places where you intend to mount these parts.

Install the junction box in the car using suitable mounting material (not supplied in the sales package). Make sure the junction box stays securely in place.

## **Remote control CU-13R**

The remote control should be located so that it is within easy reach of the user. Do not mount the remote control within the head impact area.

When installing the remote control, make sure it does not interfere with or hinder the steering or other controls or systems used in the operation of the vehicle (for example, airbags).

You can attach the remote control to the steering wheel, or mount it to the dashboard or the console between the driver's and front passenger's seat.

### **Mount using the supplied tape on the dashboard or console**

1. Attach the supplied tape pad to the desired location in the car: peel off the protective sheet from the bigger pad, and press the pad into place.

When you peel off the protective sheet, do not touch the adhesive side with your finger. Make sure the surface where you attach the pad is dry and free from dirt and dust.

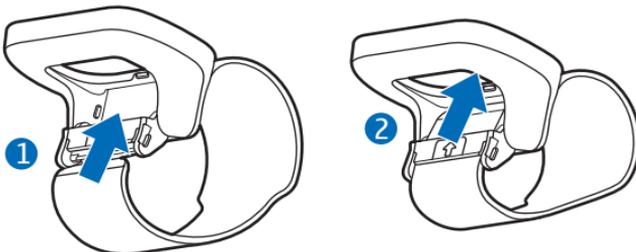
2. Peel off the protective sheet from the smaller pad, and attach the pad to the bottom of the remote control. Do not cover the battery cover of the remote control.
3. Press the pads firmly against each other, and check that the remote control stays securely in place.

### **Mount to the steering wheel using the supplied strap**

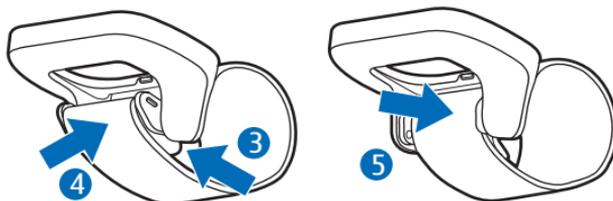
Install the remote control to the inside of the steering wheel. Do not install the remote control to the centre or outside of the steering wheel.

1. Wrap the strap around the steering wheel (not shown in the figures).
2. Thread the strap behind the catch indicated with an arrow (1).

3. Pull the strap from the end to keep it securely in place (2).



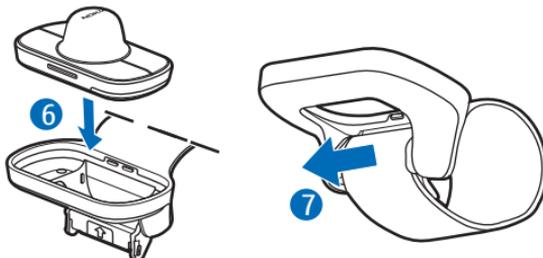
4. Press the end of the strap downwards (3), and press the catch upwards (4).
5. Press the catch against the steering wheel until it locks into place (5).



6. Push the remote control into the holder (6).

To release the remote control, push it from the bottom, through the opening in the holder.

To detach the strap, pull the catch away from the steering wheel (7).



## **Display**

You can attach the display to the dashboard using the supplied mounting plate.

The display should be located so that it is clearly visible for the user and it can be easily rotated left, right, up, or down.

When installing the display, make sure it does not interfere with or hinder the steering or braking systems or other controls or systems used in the operation of the vehicle (for example, airbags).

Make sure the display cable reaches to the junction box.

For the built-in microphone, mount the display so that it is not too far from the driver or exposed to direct air streams from the vents. If this is not possible, use an optional external microphone.

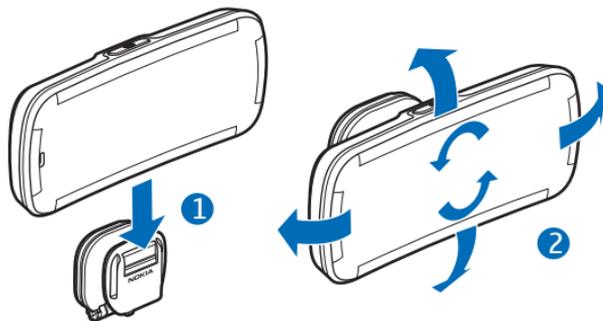
### **Attach the mounting plate to the dashboard**

1. Peel off the protective sheet from the adhesive on the mounting plate.
2. Press the mounting plate firmly to the dashboard.
3. Guide the display cable CA-165 of the mounting plate, for example, through the ventilation system (see the documentation of the car for details), and connect the cable to the respective connector on the junction box RX-73.

### **Attach the display to the mounting plate**

1. Slide the display onto the mounting plate (1).

2. Set the display to the appropriate position (2).



3. To adjust the angle of the mounting plate, loosen the screw at one end of the hinge on the plate, turn the plate (in steps of 45 degrees), and tighten the screw.

To detach the display, slide it upwards from the mounting plate.

### ■ Installer settings

The installer settings should only be modified by a qualified service technician.

In standby mode, press and hold the power key for about 10 seconds, and select from the following:

- *DSP settings* – Select the set of audio settings that suits best. To activate the new settings, you may need to switch the car kit off and back on.
- *Microphone settings* – Select whether you want to use the built-in microphone or an optional external microphone.

### ■ Integration with a car radio system

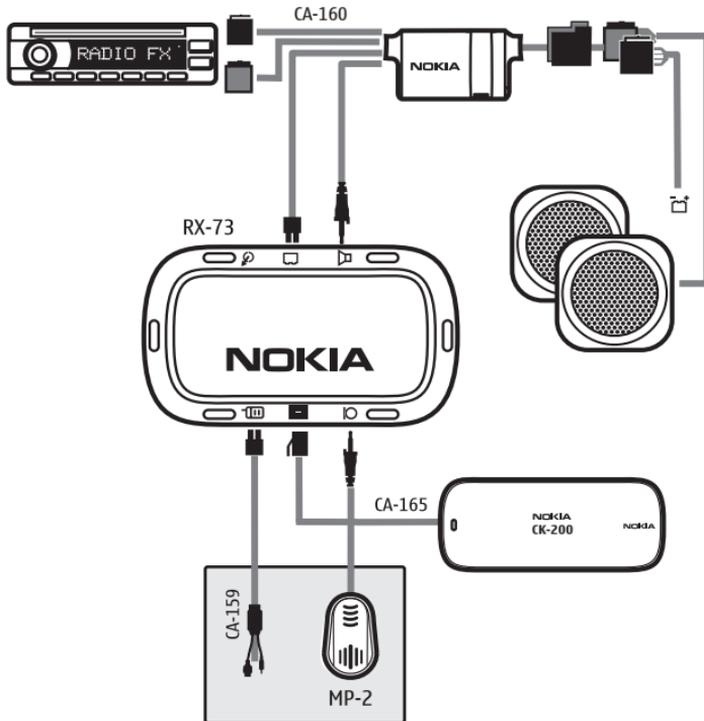
The car kit can be connected to a car radio system in three different ways. Select the appropriate option according to the parts supplied in the sales package.

For information about the connectors on the junction box RX-73, see “Junction box RX-73”, p. 32.

You can connect the car kit to a speaker with an impedance of at least 4 ohms. If the impedance is over 8 ohms, the output power is significantly lower than normal. With car specific wiring adapters, you can connect the car kit to the vehicle without any modification to the existing wiring. For availability, consult your service technician.

### Installation using the ISO cable CA-160

When you connect the car kit to the car radio system with the ISO cable CA-160, the car radio is muted when you make or receive a call.



1. To connect the ISO cable to the car radio:
  - Disconnect the two ISO plugs from the car radio for power and loudspeakers.

- Connect the female connector of the ISO cable to the power and speaker connectors of the car wiring harness.
- Check the permanent +12 V feed (red wire) and ignition feed (blue wire) on the junction box connector. If necessary, swap the configuration connectors "+12V battery" and "Ignition" of the ISO cable.

Check the correct location of the mute signal for the car radio, and connect the configuration connector "Mute" to the corresponding socket (Mute1, Mute2, or Mute3). By default, the mute connector is connected to the ISO connector pin A2 (Mute2). If the car radio does not support the mute function, leave the connector unconnected.

Plug the two ISO male connectors to the car radio.

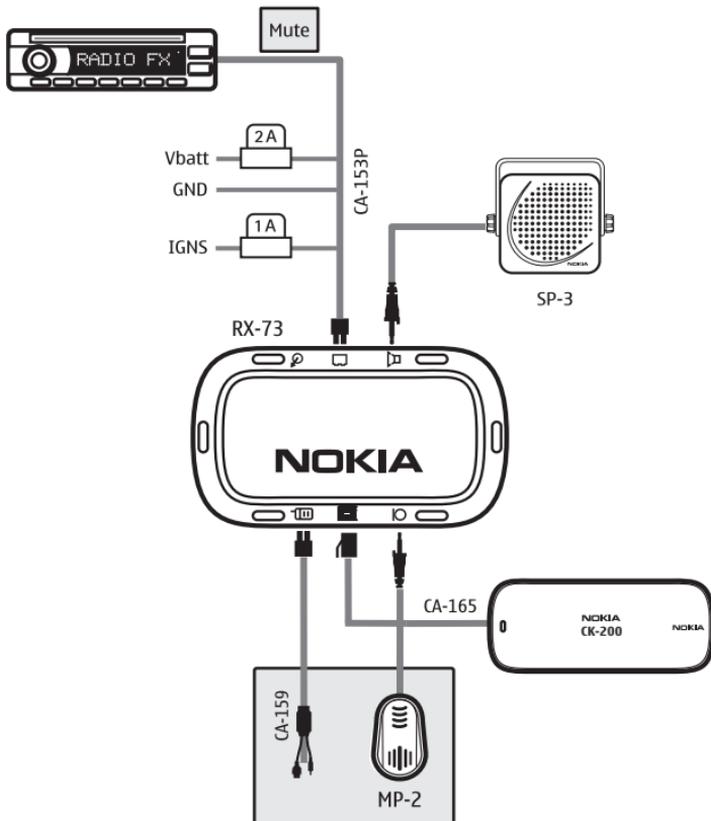
2. Insert the speaker and power cable plugs of the ISO cable to the respective connectors on the junction box.
3. Connect the display to the respective connector on the junction box.

Optional steps:

- To charge a compatible mobile device through the car kit, connect a compatible charging cable (such as Nokia CA-159) to the junction box.
- To use an external microphone (such as Nokia MP-2) instead of the built-in one, connect the microphone to the respective connector on the junction box, and modify the microphone settings (see "Installer settings", p. 36). In noisy car environments, you may need to use an external microphone.

## Installation using the power cable CA-153P and an external speaker

In this setup, the junction box is connected to the car radio with the power cable CA-153P, and an optional external speaker is used for calls.



1. Connect the wires of the power cable CA-153P to the car as follows:
  - The black wire to the vehicle ground.
  - The red wire to the permanent 12 V. Always connect the supplied 2 A fuse to this line, close to the source.

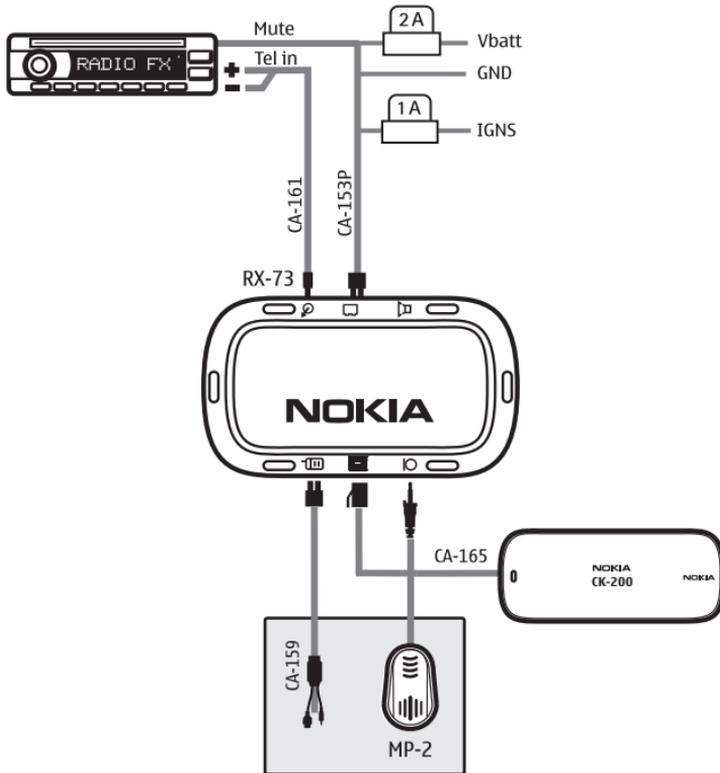
- The blue wire to the Ignition or ACC (accessory) line. Always connect the supplied 1 A fuse to this line, close to the source.
2. Connect the power cable to the respective connector on the junction box.
  3. Connect the speaker (such as Nokia SP-3) to the respective connector on the junction box.
  4. Connect the display to the respective connector on the junction box.

### Optional steps:

- To mute the car radio when you make or receive a call, connect the yellow mute wire of the power cable CA-153P to the car radio.
- To charge a compatible mobile device through the car kit, connect a compatible charging cable (such as Nokia CA-159) to the junction box.
- To use an optional external microphone (such as Nokia MP-2) instead of the built-in one, connect the microphone to the respective connector on the junction box, and modify the microphone settings (see "Installer settings", p. 36). You may need to use an external microphone in noisy car environments.

## Installation using the power cable CA-153P and direct input cable CA-161

In this setup, the junction box is connected to the car radio with the power cable CA-153P and the direct input cable CA-161, and the car radio speakers are used for calls.



1. Connect the wires of the power cable CA-153P to the car as follows:
  - The black wire to the vehicle ground.
  - The red wire to the permanent 12 V. Always connect the supplied 2 A fuse to this line, close to the source.

- The blue wire to the Ignition or ACC (accessory) line. Always connect the supplied 1 A fuse to this line, close to the source.
  - The yellow wire to the car radio mute input.
2. Connect the direct input cable CA-161 to the respective connectors on the car radio and the junction box.
  3. Connect the display to the respective connector on the junction box.

In some cars, you may need to switch on the car radio to hear the call audio.

Optional steps:

- To charge a compatible mobile device through the car kit, connect a compatible charging cable (such as Nokia CA-159) to the junction box.
- To use an optional external microphone (such as Nokia MP-2) instead of the built-in one, connect the microphone to the respective connector on the junction box, and modify the microphone settings (see "Installer settings", p. 36). You may need to use an external microphone in noisy car environments.

## ■ Optional accessories

You can extend the features of the car kit with optional accessories. Consult your dealer or service technician for suitable accessories. Use only approved and compatible accessories.

### Charging cable

To charge a compatible mobile device from the car kit, leaving the cigarette lighter free for other devices, you can use an optional charging cable, such as CA-159.

### Microphone

In noisy car environments, you can use an optional external microphone (such as Nokia MP-2) to improve the audio quality, instead of the built-in one. To use an external microphone, connect the microphone to the respective connector on the junction box.

Select the mounting location of the microphone carefully, to increase the quality of voice transmission.

The best place to mount the microphone is close to the rear view mirror. Mount the microphone so that it points towards the driver's mouth and is at least 1 metre (3 feet) from the car kit speaker, to avoid audio feedback.

Make sure the microphone cable reaches to the junction box.

Mount the microphone so that it is not exposed to air streams from the vents. Do not place the microphone cable in the heating, ventilation, or air-conditioning system. Use the supplied double-sided adhesive tape to mount the microphone.

Insert the microphone plug into the microphone connector on the junction box, and to lock it in place, turn the plug clockwise.

### External antenna

The external antenna improves the reception of the mobile device in a car. For availability, contact your dealer.



**Note:** In order to comply with RF exposure guidelines, install the external antenna so that a minimum distance of 20 centimetres (8 inches) can be maintained between the external antenna and all persons, with external antenna gain not exceeding 3 dBi.

### ■ Check the operation of the car kit

After the car kit has been installed, check that it is mounted and working properly. See also "Troubleshooting", p. 27.

## Care and maintenance

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Your car kit is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the car kit dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the car kit in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not attempt to open the car kit.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the car kit parts. Only use a soft, clean, dry cloth to clean the surface of the parts.
- Do not paint the car kit parts. Paint can clog the moving parts and prevent proper operation.

### Recycle

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and promote the recycling of materials. Check product environmental information and how to recycle your Nokia products at [www.nokia.com/werecycle](http://www.nokia.com/werecycle), or [nokia.mobi/werecycle](http://nokia.mobi/werecycle).



The crossed-out wheeled-bin symbol on your product, battery, literature, or packaging reminds you that all electrical and electronic products, batteries, and accumulators must be taken to separate collection at the end of their working life. This requirement applies in the European Union.

Do not dispose of these products as unsorted municipal waste. For more environmental information, see the product Eco-Declarations at [www.nokia.com/environment](http://www.nokia.com/environment).

## Additional safety information

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### ■ Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer or its representative of your vehicle or any equipment that has been added.

Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

## FCC/Industry Canada notice

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference; and 2. This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. NOTE: FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. NOTE: Changes or modifications not expressly approved by Nokia could void the user's authority to operate the equipment.