

# Nokia Bluetooth Display Car Kit CK-15W

## User and Installation Guide

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# CE1177

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## For your safety

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

Your device and its enhancements may contain small parts. Keep them out of reach of small children.



### 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 WHEN REFUELING

Do not use the device at a refueling point. Do not use near fuel or chemicals.



### SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the device where blasting is in progress.



### QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



### ENHANCEMENTS

Use only approved enhancements. Do not connect incompatible products.



### CONNECTING TO OTHER DEVICES

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

## Quick start

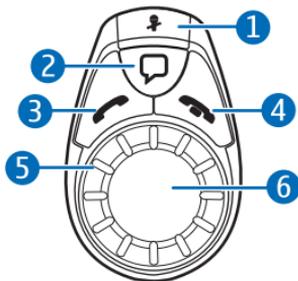
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This section briefly describes the basic features of the car kit. For details, refer to the respective sections in this guide.

### ■ The input device

#### Microphone mute key (1)

- Press to set the car kit volume to silent in the standby mode or when you receive a call.
- Press to mute or unmute the microphone during a call.
- Press and hold to switch an active call from the car kit to the compatible mobile device connected to it.



#### Voice dialing key (2)

- Press to activate voice dialing with a compatible mobile device when you are not in a call.

#### Call key (3)

- Press to make or answer a call or to switch between an active call and a call on hold.
- Press to view the list of last dialed numbers in the standby mode.
- Press twice to redial the last dialed number in the standby mode.

#### End key (4)

- Press to end or reject a call.
- Press to delete a single character when you write text or numbers.
- Press to return to the previous menu level or display view.
- Press and hold to return to the standby mode from the menu functions.

- Press and hold to switch the car kit on or off (if the car kit is not connected to the ignition system).

### Indicator light (5)

Shows that the car kit is switched on.

### Navi™ wheel (6)

- Turn left or right to adjust the volume during a call or to scroll through different lists.
- Turn left in the standby mode to enter a phone number or to use speed dialing.
- Turn right in the standby mode to search for a contact in [Contacts](#).
- Press to perform the function shown at the bottom of the display.

## ■ First time setup

1. Switch on your mobile device and car kit (see p. 11).
2. When prompted to select a language for the texts on the car kit display, turn the Navi wheel to scroll to the desired language, and press the Navi wheel.
3. Activate the Bluetooth feature on your mobile device, and pair and connect the car kit with a compatible mobile device using Bluetooth wireless technology.
4. When you are prompted to copy the contacts from the connected mobile device to the car kit, turn the Navi wheel to scroll to [Yes](#), and press the Navi wheel to start the copying. If you select [No](#), you cannot use your saved contacts to make calls with the car kit.

# 1. Introduction

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With the Nokia Bluetooth Display Car Kit CK-15W you can conveniently make and answer calls hands-free. You can also copy contacts from your compatible mobile device to the car kit, and access the contacts on the supplied display. The car kit and its menu functions can be controlled with the supplied input device.

The car kit can be connected to a compatible mobile device using Bluetooth wireless technology.

Read this guide carefully before having the car kit professionally installed and using it. Also read the user guide for your mobile device, which provides important safety and maintenance information. Check [www.nokia.com/support](http://www.nokia.com/support) or your local Nokia website for the latest version of the user guide, additional information, downloads, and services related to your Nokia product.

Keep all enhancements out of the reach of small children.

## ■ About this document

The setup and operation of the car kit are described in "Get started," p. 9 and "Menu functions," p. 18.

The installation of the car kit is described in "Installation," p. 23. The car kit should only be installed by a qualified service technician using the approved original Nokia parts supplied in the sales package of the car kit.

## ■ Bluetooth wireless technology

Bluetooth wireless technology allows you to connect compatible devices without cables. A Bluetooth connection does not require that the mobile device and the car kit be in line of sight, but both devices should be within 10 meters (30 feet) of each other. Connections may be subject to interference from obstructions, such as walls, or other electronic devices.

## Introduction

The car kit is compliant with Bluetooth Specification 1.2 that supports the following profiles: Handsfree Profile 1.5 (to use the car kit hands free with your mobile device) and Phone Book Access Profile (PBAP) 1.0 (to copy contacts from your mobile device to the car kit). Check with the manufacturers of other devices to determine their compatibility with this device.

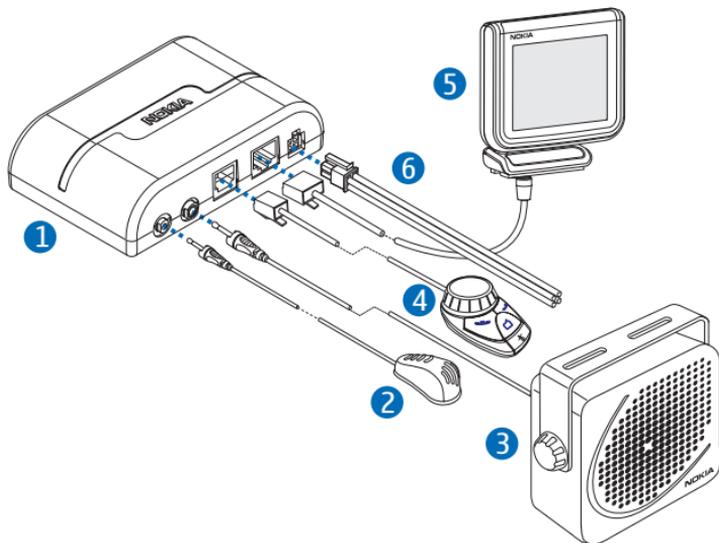
There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or service provider.

## 2. Get started

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### ■ Parts

The car kit contains the following parts:

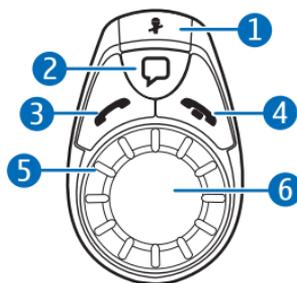


- Hands-free unit HF-15 (1)
- Microphone MP-2 (2)
- Loudspeaker SP-3 (3)
- Input device CU-8 (4)
- Display unit SU-29 including system cable CA-115 (5)
- Power cable PCU-4 (6)

## Input device

The input device contains the following parts:

- Microphone mute key  (1)
- Voice dialing key  (2)
- Call key  (3)
- End key  (4)
- Indicator light (5)
- Navi wheel (6)

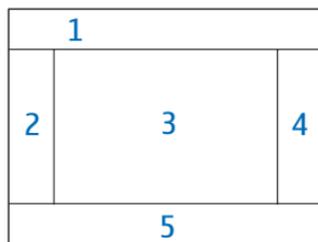


## Display and standby mode

You can rotate the display up to approximately 30 degrees up, left, or right, and up to approximately 10 degrees down. Do not try to force the display to rotate more.

When the car kit is in the standby mode and connected to a compatible mobile device using Bluetooth wireless technology, and the mobile device is registered to a cellular network, the following information is shown on the display:

- Name of the mobile device, or the name of the car kit (1); the mobile device name can be defined in the Bluetooth menu of the device.
- Signal strength of the cellular network at the current location (2) if this information is provided by the mobile device; the higher the bar, the stronger the signal
- Name or logo of the network operator or service provider (3) if this information is provided by the mobile device
- Battery status of the mobile device (4) if this information is provided by the device; the higher the bar, the more power left



- Function that can be performed by pressing the Navi wheel (5); in the standby mode, pressing the Navi wheel opens the list of menu functions

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

To search for a contact from *Contacts* in the car kit, turn the Navi wheel to right.

## ■ Navigate the menus

Many of the car kit functions are grouped into menus.

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

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

To return to the previous menu level, press . To return to the standby mode, press and hold  until the standby mode screen is displayed.

## ■ Switch the car kit on or off

### Switch on

If the ignition sense wire is not connected, press and hold . (To connect the ignition sense wire, contact your service technician.)

If the ignition sense wire is connected, turn on the car ignition.

When the car kit is switched on, the display and the indicator light of the input device turn on.

### Switch off

If the ignition sense wire is not connected, press and hold  for 5 seconds. The car kit switches off after 2 minutes. When the car kit switches off, the display turns off. After you turn off the car ignition, do not leave the mobile device connected to the car kit to prevent accidental draining of the car battery.

If the ignition sense wire is connected, turn off the car ignition. If you turn off the ignition during a call, the car kit switches off after you end the call.

### ■ First time use

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

After the language selection, you are asked to pair and connect the car kit with a compatible mobile device using Bluetooth wireless technology. See also steps 3 to 5 in "Pair and connect the car kit," p. 12.

When your mobile device is connected to the car kit, you are prompted to copy the contacts from the device to the car kit: turn the Navi wheel to scroll to *Yes*, and press the Navi wheel to start the copying. If you select *No*, you cannot use your saved contacts to make calls with the car kit. To copy the contacts later, see "Contacts," p. 18.

### ■ Pair and connect the car kit

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

When you use the mobile device with the car kit over a Bluetooth connection, secure the device in the car using a compatible mobile holder. However, you can maintain the Bluetooth connection in the car even if you keep your device, for example, in a purse.

To charge the battery in your device while using the car kit, use a mobile charger that is compatible with your device.

To pair and connect the car kit with a compatible device after the first time use, do as follows:

1. Switch on the device and the car kit (see p. 11).
2. Press the Navi wheel in the standby mode, and select *Bluetooth > Pair with phone*.

3. Activate the Bluetooth feature on your device. See the user guide of your device for instructions.
4. Set your device to search for Bluetooth devices, and select the car kit from the list of found devices.
5. On your device, enter the Bluetooth passcode shown on the car kit display to pair and connect the car kit to your device.

In some devices you may need to make the connection separately after pairing. See the user guide of your device for details.

You only need to pair the car kit with your device once.

If the pairing is successful, the car kit appears in the menu of your mobile device where you can view the currently paired Bluetooth devices. If the pairing fails, try to pair again by carefully following the pairing instructions. You can pair the car kit with up to eight devices but connect it to only one device at a time.

### **Connect the car kit manually**

When the car kit is switched on and you have not connected it to a mobile device, you can make the connection as follows:

Press the Navi wheel in the standby mode, and select *Bluetooth* > *Paired devices*. Select the desired device and *Connect*.

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

You can set your device to allow an automatic connection with the car kit when the car kit is switched on. To do this in Nokia devices, change your paired device settings in the Bluetooth menu.

When you switch on the car kit, the car kit tries to make a Bluetooth connection to the last used device. If this fails, the car kit tries to connect to one of the other Bluetooth devices that have been most recently paired with it.

### **Disconnect the car kit**

To disconnect the car kit from your device, close the Bluetooth connection with the car kit in the Bluetooth menu of your device, or

press the Navi wheel in the standby mode, and select *Bluetooth* > *Active device* > *Disconnect*.

You do not need to delete the pairing with the car kit to disconnect it.

### Clear the list of paired devices

The car kit saves the pairing information about the last eight Bluetooth devices that have been paired with it. To clear this information, reset the car kit to the factory settings: press the Navi wheel in the standby mode, and select *Settings* > *Restore factory settings*.

## 3. Call functions

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### ■ Adjust the loudspeaker volume

To adjust the volume during a call or when a call is alerting, turn the Navi wheel to left to decrease the volume or to right to increase it.

When you change the volume, the horizontal bar at the top of the display moves accordingly. To save the volume, press the Navi wheel when *Save volume* is displayed.

To set the volume to silent, press  in the standby mode or when you receive a call. To restore the original volume, press .

### ■ Make a call

To enter a phone number, turn the Navi wheel to left in the standby mode. Scroll to the first digit of the phone number, and press the Navi wheel. Select the other digits of the phone number in the same way. (To delete the most recent digit, press .) Once the phone number is displayed, press  to call it. To end the call (or cancel the call attempt), press .

To search for a contact from *Contacts*, see "Search for a contact," p. 18.

To open the list of last dialed numbers, press . To call the last dialed number, press  twice.

To activate the voice dialing feature of your mobile device, press  when you are not in a call, if your device supports the use of this feature with the car kit. Proceed as instructed in the user guide of your device. For voice dialing, you must save voice tags for the desired contacts in your device.

### ■ Speed dialing

You can assign a contact to one of the speed dialing numbers 1 to 9. See "Speed dials," p. 18.

To use speed dialing, turn the Navi wheel to left in the standby mode, and scroll to the desired speed dialing number. The contact assigned to

the speed dialing number is shown at the lower part of the display. To confirm the number, press , or scroll to  and press the Navi wheel. Press  to make the call.

### ■ Answer a call

To answer a call, press  or the Navi wheel. The caller's name appears on the display if you have downloaded your contacts from your mobile device to the car kit. If you do not answer a call, you can view the caller's name or phone number by pressing Navi wheel after the call, if this is allowed by the caller.

To reject an incoming call, press .

If you have set the *Automatic answer* function to *On*, the car kit automatically answers the call. See "Other settings," p. 20.

To put a call on hold, press the Navi wheel when *Call options* is displayed, and select *Hold*; to make the call on hold active, select *Unhold*.

If you have activated the call waiting feature in your mobile device, you can answer another call during a call by pressing . The first call is put on hold. To switch between the calls, press . To end the active call, press .

### ■ Mute or unmute the microphone

To mute or unmute the microphone during a call, press ; or press the Navi wheel when *Call options* is displayed, and select the desired option.

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

To switch a call from the car kit to your compatible mobile device, press and hold . Some devices may close the Bluetooth connection until the call ends. To switch the call back to the car kit, use the relevant function on your device.

## ■ Send DTMF tones

You can send DTMF tone strings (for example, a password) during a call. Press the Navi wheel when *Call options* is displayed, and select *Send DTMF*. Select the first character of the string. The character is shown at the lower part of the display. Select other characters in the same way.

## 4. Menu functions

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### ■ Contacts

You can copy names and phone number (contacts) from your compatible mobile device to the car kit, and use the copied contacts for calling. The contacts are saved in the [Contacts](#) menu.

#### Search for a contact

To search for a contact in the standby mode, turn the Navi wheel to right, or press the Navi wheel, and select [Contacts](#) > [Search](#).

Select the first letter of the name. (For more available characters, select the right arrow.) You can repeat this four times. To delete the most recent letter, press . To view the names that start with the entered letters, press , or select . You can switch back to the character list by pressing .

Scroll to the desired name. Press  to call the default phone number of the selected name, or press the Navi wheel, scroll to the desired phone number, and press .

#### Speed dials

Speed dialing is a quick way to call frequently used phone numbers. You can assign a phone number to the speed dialing numbers 1 to 9.

Speed dials must be set on before using speed dialing (see "Other settings," p. 20).

To set up speed dialing, press the Navi wheel in the standby mode, and select [Contacts](#) > [Speed dials](#).

- To view the contacts assigned to speed dialing numbers, select [View](#), and scroll through the list. To call the selected contact, press the Navi wheel.
- To assign a name or phone number to a speed dialing number, select [Assign](#). To select the name from the contacts list, select the first

letter of the name. The names starting with this letter are shown. Select the desired name, phone number, and speed dialing number.

- To delete an assigned speed dial, select *Delete* and the contact that you want to remove from the speed dial list. The contact is removed only from the speed dial list, not from *Contacts*.

## Copy contacts from mobile device to car kit

You can copy the contacts that you have saved in the internal memory of your compatible mobile device to the car kit.

To copy the contacts, press the Navi wheel in the standby mode, and select *Contacts* > *Download contacts* > *Yes*.

If you make or receive a call while the contacts are copied, the copying may be stopped. In this case, start the copying again. While the contacts are being copied, you cannot use the contacts saved in *Contacts*.

If you connect another device to the car kit, the contacts copied from the previous device are not shown. To use the car kit to access the contacts saved in the new device, copy the contacts to the car kit. The contacts of the previous device are removed from the car kit.

## ■ Call register

The car kit registers the phone numbers of recent missed, received, and dialed calls. The car kit registers missed and received calls only if the cellular network supports these functions, and the device that you have connected to the car kit is switched on and within the network service area.

To view the recent calls, press the Navi wheel in the standby mode, and select *Call register* and a call type. To view the phone numbers, press the Navi wheel. To make a call to a phone number, press .

## ■ Bluetooth settings

To manage Bluetooth connections, press the Navi wheel in the standby mode, and select *Bluetooth*.

To view the device that is currently connected to the car kit, select *Active device*. To close the connection, press the Navi wheel.

To view the devices that are currently paired with the car kit, select *Paired devices*. To connect the car kit with a paired device, select the device and *Connect*. To remove the pairing, select the device and *Delete pairing*.

To pair the car kit with a new device, select *Pair with phone*, and start the pairing from your device. A Bluetooth passcode is shown on the car kit display. Enter the same passcode on your device. See also "Pair and connect the car kit," p. 12.

### ■ Display settings

To adjust the display settings, press the Navi wheel in the standby mode, and select *Display settings*.

To change the color of the display, such as the background and the signal strength bar, select *Colour themes* and the desired color theme.

To adjust the brightness of the display, select *Brightness* and the desired brightness level.

To set the time after which the display backlight turns off in the standby mode, select *Auto dimming* and the desired time. If you select *Off*, the backlight remains always on when the car kit is switched on.

### ■ Other settings

To adjust other settings of the car kit, press the Navi wheel in the standby mode, and select *Settings*.

To set automatic answer on or off, select *Automatic answer* and the desired option. If you select *On*, the car kit automatically answers an incoming call. For the time after which the call is answered, see the user guide of your mobile device.

To change the car kit language, select *Language setting* and the desired language.

To define when the car radio is muted, select *Phone sounds* and the desired option. If you select *Calls only*, the car radio is muted only when

you receive a call. If you select *Always on*, the car radio is muted when the mobile device produces any sound, for example, a text message tone.

To set the warning tones of the car kit on or off, select *Warning tones* and the desired option.

To set speed dialing on or off, select *Speed dials* and the desired option. If you select *On*, the phone numbers assigned to the speed dialing numbers 1 - 9 can be dialed as described in "Speed dialing," p. 15.

To view the software and hardware versions of the product, select *Product info*. To scroll through the information, press the Navi wheel repeatedly.

To reset the car kit to the factory settings, select *Restore factory settings*.

## ■ Reset the car kit

If the car kit stops functioning, you must reset it. When the car kit is switched on, press and hold  for 10 seconds. The car kit restarts. This does not reset the car kit settings.

## ■ Troubleshooting

**I cannot connect the car kit to my mobile device.**

- Ensure that the car kit is switched on and paired with your device.
- Check that the Bluetooth feature is activated on your device.

**The car kit does not establish a connection to my paired device when I turn on the ignition or switch on the car kit.**

- Check that the Bluetooth feature is activated on your device.
- Ensure that your device is set to connect to the car kit automatically when the car kit is switched on.

**The car kit does not switch on when I turn on the car ignition.**

Ask the technician who installed the car kit to ensure that the ignition sense wire is properly connected.

**The caller cannot hear my voice during a call.**

- Check that the car kit microphone is not muted.
- Ensure that the mobile device is properly connected to the car kit.

**The car radio is not muted when I answer a call.**

Ask the technician who installed the car kit to ensure that the mute line is properly connected.

For the latest product information, check [www.nokia.com](http://www.nokia.com) or your local Nokia website, or contact your local dealer.

## 5. 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 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.
- The car kit is suitable for use only in a vehicle with a 12-V, negative grounding system. Use on other supply voltages or alternative polarity will damage the equipment.
- Remember that modern automotive systems include on-board computers where key vehicle parameters are stored. Improper disconnection of the car battery may cause loss of data, necessitating extensive effort for re-initialization 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, ensure that 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). Ensure that 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.

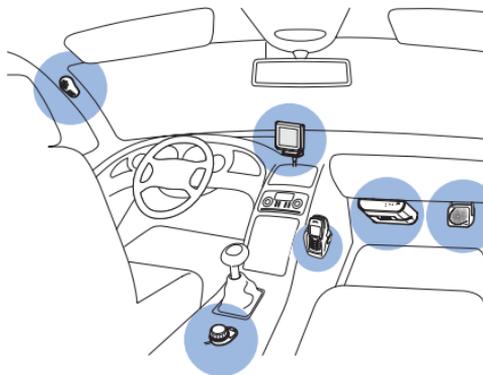
If the display of a mobile device is to be used, ensure the device is mounted in a holder and that the device display is clearly visible to the user.

- 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. Ensure that 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. Should you notice a fault or change in the operation of such a system, contact your car dealer.
- Ensure that 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).

### ■ 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. 9.

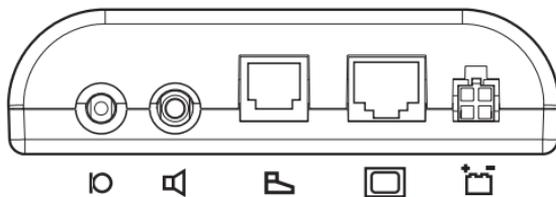
When installing the parts of the car kit, ensure that none of them interfere with or hinder the steering or braking systems or other controls or systems used in the operation of the vehicle (for example, airbags). Do not use screws to install the display unit if you mount it within the head impact area.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



*Example of appropriate installation, with the display unit mounted using the supplied adhesive*

### **Hands-free unit HF-15**

The hands-free unit has the following connectors. The symbols are printed at the bottom of the unit.



- —Connector for the microphone MP-2
- —Mono audio output for the loudspeaker SP-3
- —Connector for the input device CU-8
- —Connector for the display unit SU-29
- —Dc power connector for the power cable PCU-4

When you install the hands-free unit, ensure that the cables for the display unit, microphone, and loudspeaker reach the places where you intend to mount these parts.

Do not mount the hands-free unit inside a metal housing or on a metal surface because this will impair the Bluetooth connection between the hands-free unit and the Bluetooth device that is connected to the car kit. For an optimal connection, ensure that the distance between the hands-free unit and a metal surface is over 4 mm (0.16 inch).

To mount the hands-free unit, use the hook and loop tape pads supplied with the car kit in the same way as with the input device (see the figures in "Input device CU-8," p. 26). Detach the two pads from each other.

Attach the pad with the loops first: peel off the protective sheet from the adhesive side, and attach the pad to the desired location in the car. When you peel off the protective sheet, do not touch the adhesive side with a finger. Ensure that the surface where you attach the pad is dry and free from dirt and dust.

To attach the pad with the hooks, peel off the protective sheet from the adhesive side, and attach the pad to the underside of the hands-free unit.

Press the hands-free unit firmly onto the loop pad, and check that the hands-free unit stays securely in place.

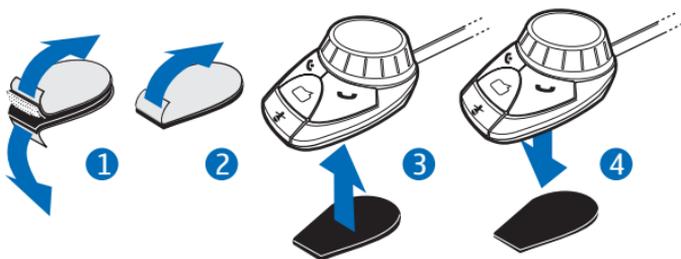
### **Input device CU-8**

The input device should be located so that it is within easy reach of the user. When installing the input device, ensure that 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).

Ensure that the input device cable reaches to the hands-free unit for connection. The best location to mount the input device is horizontally on the console between the driver's and front passenger's seat so that the input device keys are toward the front of the vehicle.

To mount the input device, use the hook and loop tape pads supplied with the car kit. Detach the two pads from each other (1). Attach the pad with the loops first: peel off the protective sheet from the adhesive side (2), and attach the pad to the desired location in the car. When you peel off the protective sheet, do not touch the adhesive side with a

finger. Ensure that the surface where you attach the pad is dry and free from dirt and dust.



Attach the pad with the hooks: peel off the protective sheet from the adhesive side (2), and attach the pad to the underside of the input device (3).

Press the input device (4) firmly onto the loop pad, and check that the input device stays securely in place.

## **Display unit SU-29**

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

When installing the display unit, ensure that 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).

Ensure that the display unit cable reaches to the hands-free unit for connection. Mount the display unit on the dashboard in the upright position.

Do not use screws to install the display unit if you mount it within the head impact area. Use the supplied adhesive instead.

To mount the display unit, use the adhesive at the bottom of the display stand or the supplied screws. To use the adhesive, peel off the protective sheet from the adhesive, and attach the display unit firmly to the dashboard. When you peel off the protective sheet, do not touch the adhesive with a finger. Ensure that the surface where you attach the display unit is dry and free from dirt and dust. To use the supplied

screws, ensure that drilling bore holes into the dashboard does not damage any systems or parts of the vehicle (for example, airbags). Drill the required bore holes, and attach the display unit to the dashboard.

### **Loudspeaker SP-3**

For good acoustic quality, mount the loudspeaker so that it points toward the user. Mount the loudspeaker more than 50 cm (19.5 inches) from the driver's or passenger's head. Mount the loudspeaker at least 1 meter (3 feet) away from the microphone to avoid audio feedback.

Connect the loudspeaker to the mono output of the car kit. The car kit can also be connected to a compatible car radio system; consult your service technician.

### **Microphone MP-2**

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

Mount the microphone about 50 cm (19.5 inches) from the driver's head, and position it so that it points toward the driver's mouth.

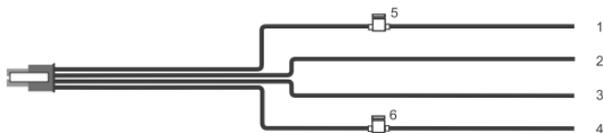
Experience has shown that the best mounting locations are near the rear view mirror or the sun visor. Mount the microphone at least 1 meter (3 feet) away from the car kit loudspeaker to avoid audio feedback.

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 fix the microphone to reduce the amount of background noise of the car that can interfere with your calls.

Insert the microphone plug into the microphone connector on the hands-free unit, and turn the plug clockwise to lock it firmly. Use of any other microphone than the microphone MP-2 supplied with the car kit may impact the audio quality.

## Power cable PCU-4

The power cable has the following wires and fuses:



- +12 V, car battery +, red (1)
- Ground, car battery -, black (2)
- Car radio mute, yellow (3)
- Car ignition sense, blue (4)
- 2 A fuse (5)
- 1 A fuse (6)

To connect the power cable, do as follows:

1. Connect the black wire to the vehicle ground.
2. Plug the yellow wire into the mute connector of the car radio.

When a call is answered, the car kit switches the yellow wire to ground, muting the car radio. When the call is ended, the yellow wire is separated from ground, and the car radio is unmuted.

If the car radio does not have a mute connector, this wire can be left unconnected. In this case, the car radio is not muted automatically when you answer a call.

Alternatively, an additional relay can be used to mute the car radio and to connect the car kit directly to the car speakers. The mute signal is used to switch the relay.

3. Connect the blue wire to the ignition sense line of the car using the supplied 1 A fuse.

Some vehicles do not support the ignition sense connection. In this case the blue wire can be left unconnected but the car kit does not switch off automatically when the car ignition is turned off.

When the ignition sense wire is not connected, the car kit automatically switches off after two minutes if it is not connected to the mobile device to prevent accidental draining of the car battery.

4. Connect the red wire to the positive terminal of the 12 V car battery using the supplied 2 A fuse.
5. Plug the four-pin plug of the power cable into the dc power connector of the hands-free unit.

### ■ Optional enhancements

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

#### Mobile holder

To use your mobile device in a car, you can mount a mobile holder designed for the device.

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

For mounting instructions, see the documentation that came with the mobile holder.

#### Antenna coupler and external antenna

An antenna coupler is required to connect an external antenna. The external coupler improves the cellular signal reception of the mobile device in a car. For compatible antenna couplers and external antennas, contact your dealer.



**Note:** In order to comply with RF exposure guidelines, install the external antenna so that a minimum distance of 20 cm (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 working and mounted properly. See also "Troubleshooting," p. 21.

## 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.
- Do not paint the car kit parts. Paint can clog the moving parts and prevent proper operation.

If the car kit is not working properly, take the defective part to your nearest authorized service facility for service.

## 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 enhancements. 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.