

Car Kit CK-10 User Guide



EURO2 9233639 Issue 1

DECLARATION OF CONFORMITY We, NOKIA CORPORATION, declare under our sole responsibility that the product HF-7 is in conformity with the provisions of the following Council Directive: 1999/5/EC. A copy of the Declaration of Conformity can be found at: http://www.nokia.com/phones/declaration_of_conformity/



Copyright © Nokia Corporation 2005. All rights reserved.

Reproduction, transfer, distribution or storage of part or all of the contents of this document in any form without the prior written permission of Nokia is prohibited. Nokia, Nokia Connecting People and Pop-Port are trademarks or registered trademarks of Nokia Corporation. Other products and company names mentioned herein may be trademarks or tradenames of their respective owners. Nokia operates a policy of continuous development. Nokia reserves the right to make changes and improvements to any of the products described in this document without prior notice. Under no circumstances shall Nokia be responsible for any loss of data or income or any special, incidental, consequential or indirect damages howsoever caused. The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy, reliability or contents of this document. Nokia reserves the right to revise this document or withdraw it at any time without prior notice.

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

Export Controls

This device may contain commodities, technology or software subject to export laws and regulations from the US and other countries. Diversion contrary to law is prohibited.

For your safety

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this user's guide.



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.



QUALIFIED INSTALLATION AND SERVICE

Only qualified personnel may install or repair this product.



FUSE REPLACEMENT

Replace a blown fuse with a fuse of the same type and size. Never use a fuse with a higher rating!



ENHANCEMENTS

Use only approved enhancements. Do not connect incompatible products.

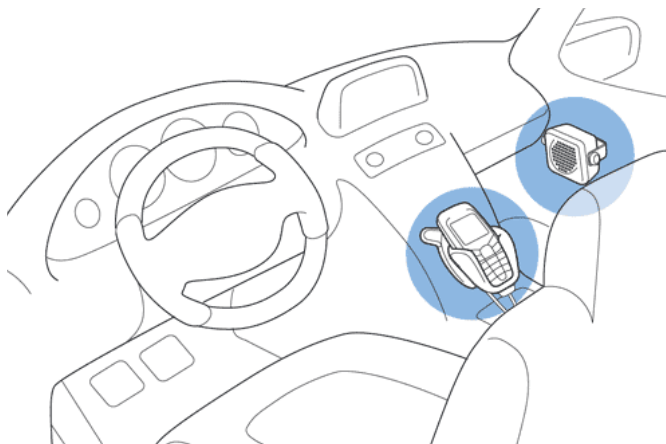
Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to protect any warranty coverage.

- Do not attempt to open the device other than instructed in this guide.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the car kit.
- Do not paint the car kit. Paint can clog the moving parts and prevent proper operation.

All of the above suggestions apply equally to your car kit or any enhancement. If any device is not working properly, take it to the nearest of authorized service facility for service.

Introduction



Car kit installation in the cockpit

The Nokia CK-10 car kit was developed for installation in motor vehicles. You can operate your mobile in the hands-free mode and charge the phone battery. The car kit is extremely compact, consisting of the hands-free unit and microphone. You can install the car kit quickly and easily. Simply connect the power cable, the loudspeaker, and one of the lines from the system cable to the hands-free unit.

1. Getting started

■ Overview

The following lists the car kit components (1–7) and optional enhancements (8–12) that may be available to extend your car kit.

1. Hands-free unit HF-7 with built-in microphone
2. Mounting plate HH-8 to mount the hands-free unit
3. Loudspeaker SP-3
4. System cable CA-46 to connect a compatible phone holder to the hands-free unit
5. System cable CA-47 to connect a compatible mobile phone directly to the hands-free unit
6. Power cable CA-60P to connect the hands-free unit to the 12-V car battery
7. Washer HH-9 to mount antenna couplers AD-14, AXF-13L or AXF-15S
8. Additional compatible microphone, e.g. microphone MP-2, for in-car installation (optional)
9. Antenna coupler to connect an external antenna when using a phone holder (optional)
10. Active mobile phone holder to connect a compatible mobile phone (sold separately)

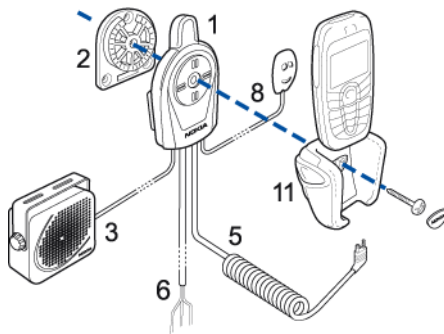
11. Passive mobile phone holder to install a compatible mobile phone (sold separately)

12. GSM antenna (optional)

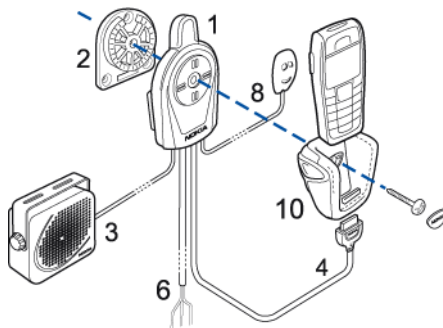
Keep all small parts out of reach of small children.

■ Configuration

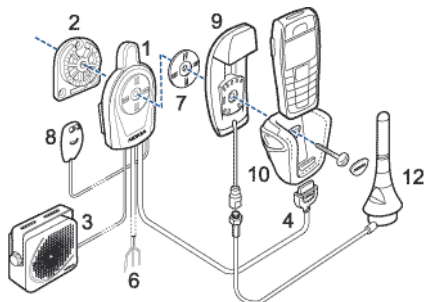
The CK-10 car kit can be installed in various ways. The following figures give examples of typical installation variants. Before you start the installation, ask for professional advice on the configuration that would best suit your needs.



Car kit with passive phone holder



Car kit with active phone holder



Car kit with separate antenna coupler and external antenna

■ Use of enhancements

Ensure that only compatible products are connected to your car kit. Before you begin the installation, ask for professional advice on the enhancements that would best suit your needs.

Microphone (component 8)

The hands-free unit HF-7 comes with a built-in high-quality microphone. You can also connect an external microphone (for example, an MP-2 microphone) to the car kit to suit your particular needs.



Note: Use of any other microphone than the microphone supplied with the CK-10 car kit may affect the transmission quality.

Phone holder (passive/comp. 11, active/comp. 10)

To connect a compatible mobile phone to the hands-free unit, you need a phone holder (not included in the sales package). Different phone holders are available for different phone models.

Antenna coupler (component 9)

You can install a separate antenna coupler (not included in the sales package) to connect an external antenna. A range of antenna couplers may be available for mobile phones and phone holders. An antenna coupler can improve in-vehicle reception of the mobile phone.

Please check the compatibility of couplers with the manufacturer.

GSM antenna (component 12)

A compatible GSM antenna (not included in the sales package) enables optimized wireless connections. To use an external antenna, you need an antenna coupler and/or compatible phone holder (sold separately).



Note: If you have installed an external antenna, remember that in order to comply with RF exposure requirements for mobile transmitting devices, a minimum distance of 20 cm (8 inches) must be maintained between the antenna and all persons.

2. Installation

■ Safety information

Follow these basic safety guidelines when installing the car kit.

- Note that the instructions in this installation guide are general guidelines which apply for the installation of the Nokia CK-10 car kit in an automobile. Due to the wide variety of car types and models available, this guide cannot consider the individual technical requirements relevant for any particular vehicle. Contact the vehicle manufacturer for further detailed information about the vehicle in question.
- Make sure that the car ignition is off and disconnect the car battery before beginning the installation. Ensure that it cannot be reconnected inadvertently.
- Modern automotive systems include on-board computers where key vehicle parameters are stored. Improper disconnection of the car battery may cause loss of data, requiring extensive effort for re-initialization of the system. If you have any concerns, contact your car dealer before any installation work.
- The phone holder is to be fixed onto the hands-free unit in the cockpit area where the display is clearly visible for the user but does not interfere with the control or operation of the vehicle. The keypad should be within easy reach of the user.
- All equipment must be mounted so that it does not interfere with the operation of the vehicle. Make sure not to impact the steering or braking

systems or other key systems essential for proper operation of the car when installing the car kit equipment. Make sure that deployment of the airbag is not blocked or impaired in any way.

- Do not smoke when working on the car. Make sure that there is no source of fire or flame nearby.
- RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles, for example, electronic fuel injection systems, electronic antiskid braking systems, electronic speed control systems, airbag systems. Should you note a fault or change in the operation of such a system, contact your car dealer.
- The car kit should not be installed in the head impact area.
- Do not wire car kit equipment to the high voltage lines of the ignition system.
- Take care not to cause damage to electrical cables, fuel or brake lines, or safety equipment during installation work.
- Ensure cables are placed so that they are not subjected to mechanical wear and tear. Do not place cables under car seats or over sharp edges.

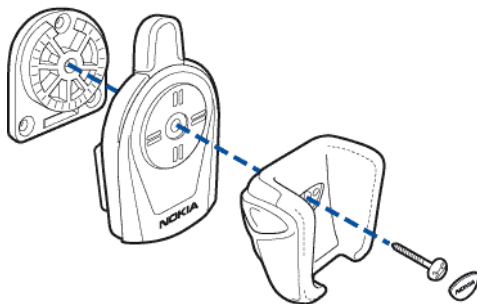
■ Installing the car kit

See the instructions on page 4 for an example of a suitable installation of the car kit equipment.

You also need to install a phone holder (sold separately) that is compatible with the mobile phone to be used. If you want to install an external antenna (sold

separately), you either need an antenna coupler that is compatible with the phone holder in use or a phone holder with a built-in antenna coupler.

When installing the hands-free unit, ensure that it does not block the vents and is mounted securely and as vibration-free as possible. To mount the unit, attach the mounting plate supplied with the car kit and secure the hands-free unit using the screw that goes through the unit and the phone holder.



Installing the hands-free unit (example only)

When mounting the antenna coupler AD-14, AXF-13L or AXF-15S, place the washer HH-9 between the coupler and the mounting plate.

Finally, insert the cover with the Nokia logo into the recess, and press it into place.

Fix the mount for the phone holder on the dashboard or to any other location in the cockpit area where the display is clearly visible for the user and the keypad of the mobile phone is within easy reach of the user.



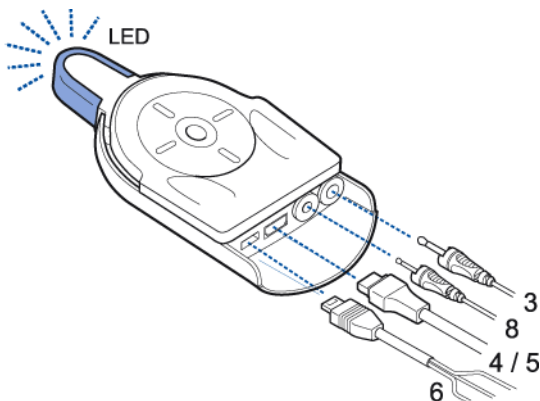
Installing the microphone

You can position the built-in microphone to point toward the user's mouth: loosen the securing screw, and carefully turn the microphone opening in the desired direction. While the microphone is in a suitable position, retighten the screw.

Loudspeaker SP-3

To ensure good acoustic quality, mount the loudspeaker so that it points into the user's direction. It is recommended that you mount the loudspeaker a minimum distance of 1 metee (3 feet) away from the microphone to avoid feedback.

If you want to use the loudspeaker installed in your vehicle with the car kit for audio output, ask your service technician for professional advice.



Connecting cables to hands-free unit HF-7

Power cable CA-60P

Plug the power cable into the corresponding port of the hands-free unit. The wires in the cable harness are to be connected as shown in the wiring diagram.

1. Connect the black wire to the vehicle ground (GND).
2. Connect the yellow wire to the MUTE connection of the car radio. When a call is accepted, the car kit switches the yellow line (MUTE) to ground, muting the car radio. When the call is ended, the yellow line is separated from ground, and the car radio is unmuted.

If your car radio does not have a mute connection, this line may remain unconnected. In this case, your car radio is not muted automatically during a call.

An additional relay can be installed to switch the hands-free unit to the loudspeakers of the car using the yellow line.

3. Connect the red wire to a suitable 12-V line controlled by the ignition key using the 2-A fuse supplied (terminal 15, ignition sense cable, IGNS). When you turn on the ignition of your car, you automatically switch on the car kit. When the ignition is turned off, the car kit is deactivated. Note, however, that this does not automatically turn the mobile phone in the phone holder on or off, respectively.

Some vehicles do not come with such a possibility. In this case the car kit can be connected to the positive terminal of the 12-V car battery using the 2-A fuse supplied. If the car kit is installed in this way, it stays in service as long as a compatible mobile phone remains in the phone holder.



Note: Replace a blown fuse with a fuse of the same type and size. Never use a fuse with a higher rating.

System cables CA-46 and CA-47

Two system cables are provided for connection of the hands-free unit with a compatible mobile phone, depending on whether the car kit is used with a phone holder or connected directly to the mobile phone.

Connect the system cable CA-46 to active phone holders with a Pop-Port™ connector and the system cable CA-47 to passive phone holders.

■ Functional test

After you have installed your car kit, it needs to be checked to ensure that it is working properly. When testing the operation of the equipment, also check that it is mounted so that it does not impair the driver during operation of the vehicle.

3. Usage

To switch your car kit on and off, turn the ignition key. If a mobile phone is in the phone holder and connected to the car kit, the indicator light on the built-in microphone turns on to show that the car kit is active. When you disconnect the mobile phone, the indicator light turns off.

If the car kit is connected to the car battery directly (i.e. without connection to a suitable 12-V line controlled by the ignition key), insert a compatible mobile phone into the phone holder to turn the car kit on. To switch it off, simply remove the mobile phone (check the type of installation).



Note: For safety reasons and to prevent accidental draining of the car battery, do not leave your mobile phone in the phone holder when leaving the vehicle.

If you are using a holder with the possibility to connect a system cable, place the mobile phone into the holder. If it is not possible to connect a cable to the holder, plug the system cable into the phone.

Remove the phone from the holder to stop hands-free mode operation. If necessary, disconnect the cable from the phone first.

For details on using the features of the mobile phone, see the user guide of your mobile phone.