



PORSCHE



Compatibility of Bluetooth[®] mobile phones with the PCM/CDR-30

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1. Compatibility list for Bluetooth® mobile phones

Manufacturer	Model	Compatible with PCM with mobile phone preparation/CDR-30 with mobile phone preparation	Compatible with PCM with phone module
 Apple	iPhone	●	○
 BlackBerry®	BlackBerry® Pearl™ 8100 smartphone	●	○
 BlackBerry®	BlackBerry® Pearl™ 8110 smartphone	●	○
 BlackBerry®	BlackBerry® Curve™ 8300 smartphone	●	○
 Motorola	KRZR K1	●	○
 Motorola	Q9	●	○
 Motorola	RAZR2 V8	●	○
 Motorola	RAZR V3xx	●	○
 Motorola	RAZR2 V9	●	○






● Compatible ○ Not compatible

1. Compatibility list for Bluetooth® mobile phones

	Manufacturer	Model	Compatible with PCM with mobile phone preparation/CDR-30 with mobile phone preparation	Compatible with PCM with phone module
	Nokia	5310 XpressMusic	●	●
	Nokia	6233	●	●
	Nokia	6300	●	●
	Nokia	6500 classic	●	●
	Nokia	E90	●	●
	Nokia	N95	●	●
	Samsung	D900i	●	○
	Sony Ericsson	K800i	●	○
	Sony Ericsson	K810i	●	○

● Compatible ○ Not compatible

1. Compatibility list for Bluetooth® mobile phones

Manufacturer	Model	Compatible with PCM with mobile phone preparation/CDR-30 with mobile phone preparation	Compatible with PCM with phone module
 Sony Ericsson	S500i	●	○
 Sony Ericsson	W880i	●	○
 Sony Ericsson	W890i	●	○
 Sony Ericsson	W910i	●	○
 Sony Ericsson	W960i	●	○

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3. Pairing instructions for Bluetooth® mobile phones with the CDR-30

Requirements for the CDR-30

The CDR-30 is not connected with a mobile phone. Pressing the 'PHONE' button displays the message 'Telephone not available'.

Requirements for the mobile phone

- The Bluetooth® function must be switched on.
- The mobile phone must be visible to other devices. These two settings are normally found in the Bluetooth® settings on the mobile phone.

Note: Some mobile phones (e.g. Motorola) can only be made visible for a limited period of time (e.g. 1 minute). If pairing is not completed within this time, it may be necessary to repeat the process.

Note for iPhone and BlackBerry®: iPhone and BlackBerry® devices cannot be found and paired from the CDR-30. The pairing must therefore be started from the iPhone or BlackBerry® itself (see pairing instructions for iPhone and BlackBerry® devices with the CDR-30).

Pairing process

CDR-30

1. Press the 'PHONE' button.
2. Press the 'SET' button.
3. Select the menu item 'Device list'.
4. Select 'Search for telephones'. A search is performed for available Bluetooth® phones that support the hands-free profile. At the end of the search, the devices found are displayed in a list (max. 5 devices).

Note: Since the CDR-30 can include maximum five devices in its list, delete any devices that are no longer required from the list before starting the search for new devices.

5. Select the phone you want from the search list on the CDR-30. You are now prompted to enter a Bluetooth® passkey specified by the CDR-30 on the phone. Confirm the suggested passkey on the CDR-30 with 'OK'. Enter the correct passkey on the mobile phone to complete the pairing process.

Note: The user has 30 seconds for entering the passkey. If pairing is not completed within this time, it may be necessary to repeat the process.

Mobile phone

6. After pairing, the CDR-30 attempts to connect with the phone. On some phones, it is necessary to confirm the connection by pressing a button on the handset.

Note: In most cases, a paired phone will be automatically found and connected whenever the car is started. In some cases (e.g. Nokia N and E series), however, it is necessary to authorise the CDR-30 in the device list on the mobile phone.

3. Pairing instructions for BlackBerry® devices with the CDR-30

Requirements for the CDR-30

The CDR-30 is not connected with a mobile phone. Pressing the 'PHONE' button displays the message 'Telephone not available'.

Requirements for the BlackBerry®

The Bluetooth® function must be switched on. You can switch on the Bluetooth® function on the BlackBerry® via 'Applications/Options/Bluetooth®/Enable Bluetooth®'. An icon in the status area indicates that the Bluetooth® function is switched on.

Note: The BlackBerry® does not appear in the search list on the CDR-30 because it has a higher security level. In this case, therefore, you must start the search from the mobile phone itself. For the BlackBerry® to be able to find the CDR-30, it must be set to visible mode.

Pairing process

CDR-30

1. Press the 'PHONE' button.
2. Press the 'SET' button.
3. Select the menu item 'Device list'. The CDR-30 is now visible to external devices.

BlackBerry®

4. Select the menu item 'Applications/Options/Bluetooth®'.
5. Press the trackball and select 'Full menu/Add device'.
The BlackBerry® now starts to search for visible Bluetooth® devices.
6. Select 'CDR-30' from the search list on the BlackBerry®.
A connection request now appears on the CDR-30; you must confirm this request.

CDR-30

7. A number row is displayed on the CDR-30; enter a 4-digit Bluetooth® passkey and confirm it with OK.

BlackBerry®

8. Enter the same Bluetooth® passkey on the BlackBerry® and confirm it with OK (↵). Pairing is now complete.

Note: The user has 30 seconds for entering the passkey. If pairing is not completed within this time, it may be necessary to repeat the process. To do this, select 'CDR-30' from the search list again.

9. A window with the question whether the connection with the CDR-30 should be established now appears on the BlackBerry®. Answer this question with 'Yes'. The BlackBerry® is now connected with the CDR-30.

Note: With some older devices, you may need to establish the connection manually. You can do this by selecting 'CDR-30/Connect' in the device list.

10. To authorise your CDR-30 on the BlackBerry®, select 'CDR-30/Device properties' and set the item 'Trusted' to 'Yes'. The CDR-30 is now authorised on your BlackBerry®. The next time the car starts, your phone will be automatically connected with the CDR-30.

3. Pairing instructions for an iPhone with the CDR-30

Requirements for the CDR-30

The CDR-30 is not connected with a mobile phone. Pressing the 'PHONE' button displays the message 'Telephone not available'.

Requirements for the iPhone

The Bluetooth® function must be switched on. The Bluetooth® function on the iPhone is switched on in the Bluetooth® settings menu. You can access this menu via 'Settings/General/Bluetooth®'. An icon in the status area indicates that the Bluetooth® function is switched on.

Note: The Bluetooth® function on the iPhone assumes that a device search normally has to be started by the mobile phone itself. For the iPhone to be able to find the CDR-30, it must be set to visible mode.

Pairing process

CDR-30

1. Press the 'PHONE' button.
2. Press the 'SET' button.
3. Select the menu item 'Device list'. The CDR-30 is now visible to external devices.

iPhone

4. Select the menu item 'Settings/General/Bluetooth®'.
The iPhone now automatically starts to search for visible Bluetooth® devices.
5. Select 'CDR-30' from the search list on the iPhone.
A connection request now appears on the CDR-30; you must confirm this request.

CDR-30

6. A number row is displayed on the CDR-30; using this number row you must enter a 4-digit Bluetooth® passkey and confirm it with OK.

iPhone

7. A numerical field is displayed on the iPhone; in this field you must enter the same Bluetooth® passkey and confirm it with 'Connect'. Pairing is now complete.

Note: The user has 30 seconds for entering the passkey. If pairing is not completed within this time, it may be necessary to repeat the process. To do this, select 'CDR-30' from the search list again.

8. The iPhone now automatically establishes a Bluetooth® connection with the CDR-30.
9. Your iPhone is now connected with the CDR-30. The next time the car is started, it will be automatically connected with the CDR-30.

4. Pairing instructions for Bluetooth® mobile phones with the PCM

Requirements for the PCM

The PCM is not connected with a mobile phone. Pressing the 'PHONE' button displays the menu item 'Find telephone'.

Requirements for the mobile phone

- The Bluetooth® function must be switched on.
- The mobile phone must be visible to other devices. These two settings are normally found in the Bluetooth® settings on the mobile phone.

Note: Some mobile phones (e.g. Motorola) can only be made visible for a limited period of time (e.g. 1 minute). If pairing is not completed within this time, it may be necessary to repeat the process.

Note for iPhone: The iPhone is only visible when you are in the Bluetooth® settings menu. You can access this menu on the iPhone via 'Settings/General/Bluetooth®'.

Pairing process

PCM

1. Press the 'PHONE' button.
2. Select the 'Find telephone' menu item. A search is performed for available Bluetooth® phones that support the hands-free profile. At the end of the search, the devices found are displayed in a list.

Note: With the I-no. telephone module, a search is only performed for devices that support the Bluetooth® SIM Access Profile.

Note on the BlackBerry®: During the search by the PCM, a prompt to enter a 'Passkey for PCM' appears on the BlackBerry®. You can ignore this prompt or cancel it using the mobile phone's Back button.

3. Select the phone you want from the search list on the PCM. You are now prompted to enter a Bluetooth® passkey specified by the PCM on the phone. Enter the correct passkey on the mobile phone to complete the pairing process.

Note: The user has 30 seconds for entering the passkey. If pairing is not completed within this time, it may be necessary to repeat the process.

Mobile phone

4. After pairing, the PCM attempts to connect with the phone. On some phones, it is necessary to confirm the connection by pressing a button on the handset.
5. On many phones, it is also necessary to confirm the transfer of phonebook contacts on the phone after the Bluetooth® connection has been established.

Note: In most cases, a paired phone will be automatically found and connected whenever the car is started. In some cases (e.g. Nokia N and E series), however, it is necessary to authorise the PCM in the device list on the mobile phone.

4. Pairing instructions for BlackBerry® devices with the PCM

Requirements for the PCM

- The PCM contains the I-no. mobile phone preparation. BlackBerry® devices cannot be paired with the PCM using the I-no. telephone module, since these devices do not support the Bluetooth® SIM Access Profile.
- The PCM is not connected with a mobile phone. Pressing the 'PHONE' button displays the menu item 'Find telephone'.

Requirements for the BlackBerry®

- The Bluetooth® function must be switched on. You can switch on the Bluetooth® function on the BlackBerry® via 'Applications/Options/Bluetooth®/Enable Bluetooth®'. An icon in the status area indicates that the Bluetooth® function is switched on.
- The BlackBerry® must be 'visible' for other devices. You find this setting on the BlackBerry® under 'Applications/Options/Bluetooth®/Connected devices/Full menu/Options'. The 'Discoverable' setting must be set to 'Yes'.
- Automatic transfer of the phonebook from the BlackBerry® to the PCM can be configured by setting 'Address book transfer' to 'All entries'. You find this setting on the BlackBerry® under 'Applications/Options/Bluetooth®/Paired devices/Full menu/Options'.

Pairing process

PCM

1. Press the 'PHONE' button.
2. Select the 'Find telephone' menu item. A search is performed for available Bluetooth® phones that support the hands-free profile. At the end of the search, the devices found are displayed in a list.

Note: During the search by the PCM, a prompt to enter a 'Passkey for PCM' appears on the BlackBerry®. You can ignore this prompt or cancel it using the mobile phone's Back button.

3. Select the phone you want from the search list on the PCM. You are now prompted to enter a Bluetooth® passkey specified by the PCM on the phone. Enter the correct passkey and confirm with OK (→) on the BlackBerry® to complete the pairing process.

Note: The user has 30 seconds for entering the passkey. If pairing is not completed within this time, it may be necessary to repeat the process.

4. A window with the question whether the connection request by the PCM should be accepted now appears on the BlackBerry®. Answer this question with 'Yes' and confirm the item 'Do not ask this question again' by setting a check. The PCM is then authorised on the BlackBerry®.

4. Pairing instructions for an iPhone with the PCM

Requirements for the PCM

- The PCM contains the I-no. mobile phone preparation. The iPhone cannot be paired with the PCM using the I-no. telephone module, since the iPhone does not support the Bluetooth® SIM Access Profile.
- The PCM is not connected with a mobile phone. Pressing the 'PHONE' button displays the menu item 'Find telephone'. This should not be pressed here.

Requirements for the iPhone

- The Bluetooth® function must be switched on. To switch on the Bluetooth® function you must be in the Bluetooth® settings menu on the iPhone. You can access this menu via 'Settings/General/Bluetooth®'.
- An icon in the status area indicates that the Bluetooth® function is switched on.

Note: The Bluetooth® function on the iPhone assumes configured such that a device search normally has to be started by the iPhone itself. For the iPhone to be able to find the PCM, it must be in the main PHONE menu.

Pairing process

PCM

1. Press the 'PHONE' button. The PCM is not visible to external devices.

iPhone

2. Select the menu item 'Settings/General/Bluetooth®'. The iPhone now automatically starts to search for visible Bluetooth® devices.
3. Select 'PCM' from the search list on the iPhone. A connection request now appears on the PCM; you must confirm this request.

PCM

4. A number pad is displayed on the PCM; enter a 4-digit Bluetooth® passkey and confirm it with OK.

iPhone

5. A numerical field is displayed on the iPhone; in this field you must enter the same Bluetooth® passkey and confirm it with 'Connect'. Pairing is now complete.

Note: The user has 30 seconds for entering the passkey. If pairing is not completed within this time, it may be necessary to repeat the process. To do this, select the 'PCM' from the device list on the iPhone again.

6. The iPhone now automatically establishes a Bluetooth® connection with the PCM.
7. Your iPhone is now connected with the PCM. The next time the car is started, it will be automatically connected with the PCM.

5. Frequently asked questions about Bluetooth®

What is Bluetooth®?

Bluetooth® is an industrial standard for the wireless networking of electronic devices over a short range (up to 10 metres). It allows mobile electronic devices such as mobile phones and PDAs as well as computers and peripherals, e.g. keyboards, to communicate wirelessly with each other, with Bluetooth® as the interface.

When will Bluetooth® technology be available in my favorite model?

Bluetooth® technology will be available in Porsche cars from model year 09. To use it, you will need to order the optional mobile phone preparation (mobile phone preparation optional for all models, in combination with CDR-30 radio or the PCM) or telephone module (telephone module optional for all models, only in combination with the PCM).

Frequently asked questions about the mobile phone preparation (general)

Can I also use the mobile phone preparation without a Bluetooth® compatible mobile phone?

No, that's not possible.

Can I use the mobile phone preparation with any Bluetooth® mobile phone?

Basic requirements for compatibility of your mobile phone with the phone preparation is the support of the Bluetooth® Hands-Free Profile (HFP). You will find an overview of telephone models that Porsche has tested for compatibility with the mobile phone preparation in the mobile phone compatibility list at www.porsche.com. Even if you cannot find your mobile phone in the list, it may still offer limited compatibility with the mobile phone preparation.

Why do mobile phones differ in terms of their operation or functions?

The implementation of the Bluetooth® standard tends to vary among manufacturers, on individual phone models, and even in the different firmware versions for the same phone. As a result, your mobile phone's behaviour when used in the car may differ from that of other mobile phones and you may not be able to use all the options provided by your PCM with mobile phone preparation. You can find information on the range of functions available on the devices recommended by Porsche in the mobile phone compatibility list at www.porsche.com.

Why is a mobile phone's firmware so important?

New mobile phone firmware versions frequently not only offer new functions, but also correct bugs from old firmware versions. You should therefore make sure that the firmware on your phone is as up-to-date as possible. It is, however, possible that individual functions may behave differently with a new firmware version than before.

What do I need to do to connect my phone with the car?

Before the phone can be connected with the car, it requires a one-time pairing or 'pairing' process that protects the security of the device. You will find information on this pairing process in the pairing instructions or at www.porsche.com. If there is a Bluetooth® mobile phone paired with the car, the phone will be automatically searched for and connected each time the ignition is switched on. It is important for both pairing and operation that the Bluetooth® function is enabled on the telephone and also in the car. Bluetooth® visibility must additionally be enabled on the phone for the pairing process.

Can I disable my mobile phone's visibility after the pairing process?

Yes. Visibility is only required for pairing, which only needs to be done once before the first connection. Once you have paired your mobile phone with the car, subsequent connections will be established even if visibility is disabled.

What can I do if I can't pair or connect my mobile phone despite the Bluetooth® function and visibility being enabled?

There may be a number of reasons for this:

1. On some telephone models, each connection request by the car must be confirmed by pressing a button. If this confirmation is not provided, the connection will not be established. This confirmation request each time the ignition is switched on can be avoided by authorising the PCM/CDR-30 in the mobile phone's device list. This device list is found under the Bluetooth® settings on most phones.
2. There are situations where the mobile phone will not allow a connection because of an erratic condition. Often the only way to correct this condition is to switch the phone off and on again or to briefly remove the battery.
3. It can happen that a mobile phone does not appear in the PCM's search list due to unfavourable external conditions. In this case, you can also start the pairing process from the mobile phone. Make sure that the Bluetooth® function is enabled on the phone and on the PCM/CDR-30. Make also sure that the PCM/CDR-30 is in the Bluetooth® device list, since the mobile phone will be able to 'see' it there.
4. It can happen in very rare cases that the pairing information is lost on one or other side, which means the devices cannot establish a connection. In this case, delete the entry left on the phone or in the car and repeat the pairing process.

Can I pair a second phone with the car?

Yes. Before pairing a second Bluetooth® phone, however, you should terminate the connection with your first device. One way of doing this is to disable the Bluetooth® function on the first device for the time of pairing the second one.

Do I need a cradle to operate my phone with the mobile phone preparation?

Technically speaking, you don't need a cradle for your Bluetooth® mobile phone to work with the mobile phone preparation. Nevertheless, using a cradle is recommended as then the car's external antenna is used and the car charges the battery of the mobile phone. You can find cradles for selected phone models in phone accessories stores.

What happens if there is more than one Bluetooth® phone in the car at the same time?

The mobile phone preparation can only be connected with one phone. You can, however, pair up to five devices in the car and then actively switch between these devices. When the system is switched on, it automatically searches for the last connected mobile phone. If it does not find this device within 15 seconds, the system then searches for the other paired phones.

Can I send text messages using the mobile phone preparation?

No. The mobile phone preparation does not support text messaging.

Where can I find more information about the pairing process and operation of the mobile phone preparation?

You can find more details about the operation of the mobile phone preparation in the operating instructions for the PCM/CDR-30. You can also find more information about the pairing process at www.porsche.com.

Who can I contact when having problems with Bluetooth® phones?

If you have any questions about your mobile phone, please contact the dealer or mobile phone provider from whom you purchased the device. The conditions of the respective phone manufacturer apply exclusively.

Frequently asked questions about the PCM with mobile phone preparation

What functions are supported when connecting via the mobile phone preparation with the PCM?

Since the range of functions supported with Bluetooth® varies greatly between different mobile phones, please refer to the applicable details for your vehicle equipment and mobile phone in the mobile phone compatibility list at www.porsche.com.

The mobile phone preparation in the PCM supports the following functions in principle:

- Pairing a mobile phone with search from the car or the phone
- Automatically connecting a paired device after system startup
- Basic phone functions (making, receiving and ending calls)
- Hands-free capability via the in-car audio system
- Status displays such as network name and signal strength
- Transferring phonebook contacts from the mobile phone (contacts on the SIM card and address book contacts from the device)
- Sending DTMF tones

- Managing call lists
- Starting and ending a second call, call transfer and conference call

You will find explanations of these terms in the glossary.

Can I access the phone numbers stored on the mobile phone from the PCM?

Whether or not you have access to the phonebook depends on the functions offered by your mobile phone. For example, some models do not transfer the phonebook contacts stored on the SIM card to the PCM. With some devices, you can't even access the contacts (address book) stored on the device itself. Others do transfer this information, but only supply one phone number per name.

It may also be the case that you need to confirm the PCM's request by pressing a button on the phone. If this confirmation is not provided, the phonebook will not be transferred. This confirmation must be repeated each time the ignition is switched on. You can avoid it, however, by authorising the PCM/CDR-30 in the mobile phone's device list. This device list is found under the Bluetooth® settings on most phones.

How many phonebook contacts can I transfer to the PCM?

The phonebook memory in the PCM can hold up to 2,500 numbers. If some contacts have more than one number, the maximum number of contacts is reduced accordingly. If the phonebook on the phone has more than 2,500 numbers, some of them will be unavailable in the PCM.

Can I edit or add to my phonebook contacts using the PCM?

No. You have to edit the contacts on the phone itself. You can, however, send the updated phonebook to the PCM using the 'Transfer phonebook' function and, once it has been transferred, start using it immediately.

Why can't I set the ringtone in the PCM?

This setting is disabled for all phone models that can transfer their ringtone to the PCM via Bluetooth®.

The PCM then rings with the mobile phone's ringtone. The ringtone cannot be set on the PCM in this case; it must be set on the phone.

Why doesn't my PCM ring when a call comes in?

This can happen if you're using a phone that transfers its ringtone to the PCM via Bluetooth®. If your phone is set to 'Silent' or for example 'Meeting', neither your phone nor the PCM will ring.

Frequently asked questions about the CDR-30 with mobile phone preparation

What functions are supported when connecting via the mobile phone preparation with the CDR-30?

Since the range of functions varies greatly between different mobile phones, please refer to the applicable details for your vehicle equipment and mobile phone in the mobile phone compatibility list at www.porsche.com.

The mobile phone preparation in the CDR-30 supports the following functions in principle:

- Pairing a mobile phone with search from the car or phone
- Automatically connecting a paired device after system startup
- Basic phone functions (making, receiving and ending calls)
- Hands-free capability via the in-car audio system
- Display of signal strength
- Manual transfer of phonebook contacts from the mobile phone
- Sending DTMF tones
- Managing call lists

You will find explanations of these terms in the glossary.

Can I access the phone numbers stored on the mobile phone from the CDR-30?

The CDR-30 does not support the automatic transfer of phonebook contacts from the mobile phone. You do, however, have the option of transferring individual contacts or even your mobile phone's entire phonebook list to the CDR-30 manually. Enable download mode on the CDR-30, select the contacts you want on your phone and transfer them via Bluetooth®. Note, however, that not all phone models support this option.

How many phonebook contacts can I transfer to the CDR-30?

The phonebook memory in the CDR-30 can hold up to 100 contacts, each containing five numbers. If the number of contacts transferred from the mobile phone exceeds 100, some will be unavailable in the CDR-30.

Frequently asked questions about the PCM with telephone module

What are the differences between the PCM with telephone module and the mobile phone preparation?

The PCM with telephone module in an integrated car-phone that requires a SIM card in order to make and receive calls. This SIM card can either be inserted directly into the PCM or accessed on a compatible mobile phone using the Bluetooth® SIM Access Profile.

What mobile phones can I use to operate the PCM with telephone module?

In order for your mobile phone to be compatible with the PCM with telephone module, it must support the Bluetooth® SIM Access Profile. Unfortunately, this is only the case with a limited number of devices.

Can I operate the PCM with telephone module using a mobile phone that doesn't support the SIM Access Profile?

If your mobile phone doesn't support the Bluetooth® SIM Access Profile, you must insert a SIM card into the slot provided in the PCM. Many network operators offer multi-SIM cards or family plans where one card can be inserted into the mobile phone and another can be inserted into the PCM for this purpose.

Can I use two SIM cards at the same time?

No. The PCM with telephone module either uses the SIM card inserted into the PCM or – if there is no SIM card inserted into the PCM – the SIM card of a mobile phone connected via the Bluetooth® SIM Access Profile.

What functions does the PCM with telephone module support?

The PCM with telephone module supports the following functions in principle:

- Basic phone functions (making, receiving and ending calls)
- Hands-free capability via the in-car audio system
- Status displays such as network name and signal strength
- Sending DTMF tones
- Managing call lists
- Starting and ending a second call, call transfer and conference call
- Pairing a SIM Access Profile-enabled mobile phone with search from the car
- Automatically connecting a paired device after system startup
- Transferring phonebook contacts from the mobile phone (contacts on the SIM card and address book contacts from the device) or from the inserted SIM card
- Using a cordless handset to conduct conversations in private mode
- Using Bluetooth® headsets
- Sending and receiving text messages

You will find explanations of these terms in the glossary.

Can I remove the ignition key during a telephone call?

Yes. You can park the vehicle and remove the ignition key during a call. The PCM remains on until you or the person on the other end actively terminate(s) the call.

Can I use the cordless handset to make calls outside the car also?

The cordless handset of the PCM with telephone module is designed for use inside the car. It can be used outside the car, although only within a very small radius as the Bluetooth® connection with the vehicle must be maintained.

Can I transfer the phonebook to the PCM with telephone module?

Yes. The phonebook contacts on a SIM card inserted into the PCM or on a mobile phone connected via the Bluetooth® SIM Access Profile are transferred to the PCM each time after system startup. The transfer of the contacts stored on the device is, however, dependent on the mobile phone's range of functions. Please note here too that on some device models, the request by the PCM must be confirmed by pressing a button on the phone. If this confirmation is not provided, the phonebook will not be transferred. This confirmation must be repeated each time the ignition is switched on. You can avoid it, however, by authorising the PCM in the mobile phone's device list. This device list can be found under the Bluetooth® settings on most phones.

Why don't the call lists kept by the in-car system and the mobile phone match?

The PCM only registers calls made by the PCM with telephone module. There is no provision for transfer of the call lists kept by the mobile phone.

Can I send and receive text messages with the PCM with telephone module?

Yes. You can send and receive text messages with the PCM with telephone module. To simplify the creation of text messages, you can call up templates that also contain information from the navigation system (e.g. time of arrival or current position), if the PCM features a navigation function. You can transfer position information of this type received by text messages to the navigation system and use it for route guidance.

Why can't I see all of the text messages from the mobile phone in the car?

The Bluetooth® SIM Access Profile, used to implement the text message function, permits access to the SIM card of the connected mobile phone. Consequently, only text messages stored on the SIM card are visible in the car. Mobile phones often only display text messages stored on the device itself. In these cases, the text messages lists in the PCM and on the phone will be completely different.

If I delete a text message in the car, is it automatically deleted on the mobile phone also?

Yes. A text message deleted on the PCM is physically deleted from the mobile phone's SIM card.

Can I also receive multimedia messages with the PCM with telephone module?

No. The PCM with telephone module does not support multimedia messaging.

What can I do if I can't pair or connect my mobile phone despite the Bluetooth® function and visibility being enabled?

There may be a number of reasons for this:

1. On some telephone models, each connection request by the car must be confirmed by pressing a button. If this confirmation is not provided, the connection will not be established. This confirmation request each time the ignition is switched on can be avoided by authorising the PCM in the mobile phone's device list. This device list is found under the Bluetooth® settings on most phones.
2. It can happen in very rare cases that the pairing information is lost on one or other side, which means the devices cannot establish a connection. In this case, delete the entry left on the phone or in the car and repeat the pairing process.
3. If you have a PCM with telephone module, your mobile phone must support the SIM Access Profile to use it with the PCM. If it does not support the SIM Access Profile, it will still be found during a search by the PCM and can even be paired. In this case, however, it can only be used as a data device, for example to transfer logbook data or contact data. A connection with the PCM as the telephone device will not be established.
4. When using a SIM Access Profile-enabled phone with the PCM with telephone module, there can be other situations where a connection will not be established:
 - if external SIM access has been disabled on the phone or
 - if there is an active call on the phone at the same time as the connection request by the PCM.

Glossary

Registration ('pairing')

Before two Bluetooth® enabled devices can be connected, they require a one-off registration or 'pairing' process that will protect the security of each device. To begin this process, one of the devices is set to search for other visible Bluetooth® devices within range. A list of visible devices is then displayed (device class permitting). After the required device has been selected, it is necessary to enter the same numerical code or 'passkey' into both devices. If the pairing is successful, the devices will now be authorised to exchange data (either system or user data, e.g. voice, audio or video) unless the pairing is deleted on either device.

Auto-Connect

If two devices have been registered or 'paired' with each other, i.e. authorised to exchange data, either device can be configured to automatically transmit a connection request that is automatically answered by the other device. It is therefore possible for a Bluetooth® mobile phone to be connected automatically every time the car is started. In order for the mobile phone to accept a request from the in-car system, the system must be authorised in the device list on the mobile phone.

Authorisation

For automatic establishment of a Bluetooth® connection to be possible, the device requesting the connection must be authorised on the opposite side. This authorisation is performed automatically on some phones, while on others it must be performed explicitly by the user in the Bluetooth® device list.

Bluetooth®

Bluetooth® is an industrial standard for the wireless networking of electronic devices over a short range (up to 10 metres).

It allows mobile electronic devices such as mobile phones and PDAs as well as computers and peripherals, e.g. keyboards, to communicate wirelessly with each other, with Bluetooth® as the interface.

Bluetooth® Handsfree Profile (HFP)

The Bluetooth® Hands-Free Profile (HFP) enables an existing in-car audio system to be used as a hands-free facility for a compatible mobile phone. It also enables the user to access phone functions via existing vehicle controls. The Bluetooth® Hands-Free Profile (HFP) is used in the mobile phone preparation. Typical functions include making, receiving and ending calls, as well as setting up and terminating the hands-free audio connection. The Bluetooth® Hands-Free Profile (HFP) defines how the phone is controlled and how audio data is transferred. The implementation of the Bluetooth® Hands-Free Profile (HFP) tends to vary among manufacturers, on individual phone models, and even in the different firmware versions for the same mobile phone. As a result, two phones can have different levels of functionality even though both are nominally HFP-compatible.

Bluetooth® SIM Access Profile (SAP)

The Bluetooth® SIM Access Profile (SAP) enables both the network-specific information used to authenticate the subscriber as well as certain data on the SIM card to be transferred from one device to another. A typical application of the Bluetooth® SIM Access Profile is in the car, where it allows the user to operate an integrated car-phone with the SIM card from his or her own mobile phone. The Bluetooth® SIM Access Profile (SAP) affords the user of a PCM with integrated telephone module the option of using the PCM with telephone module with the car's external antenna without having to insert a SIM card into the PCM. The user can also access the phonebook contacts and text messages on his or her SIM card and, depending on the mobile phone's range of functions, the contacts in the device memory. Unfortunately only a few phone models

support the Bluetooth® SIM Access Profile (SAP). It is expected, however, that the profile will become more and more established in the coming years.

Bluetooth® search ('inquiry')

The one-off registration of two devices requires a search (inquiry) to be initiated by one side, the purpose of which is to identify potential Bluetooth® partners. Once the devices are registered, the connection is established via a direct connection request from then on rather than a search.

DTMF

DTMF (Dual Tone Multiple Frequency) is a method of telephone signalling in which the user can transmit tones from the keypad while making a call e.g. to operate a voice mailbox or telephone menu system.

Mobile phone preparation

The mobile phone preparation is a typical Bluetooth® hands-free system based on the Bluetooth® Hands-Free Profile (HFP). The Bluetooth® mobile phone preparation supports the following functions in principle:

- Pairing a mobile phone with search from the car or the phone
- Automatically connecting a paired device after system startup
- Basic phone functions (making, receiving and ending calls)
- Hands-free capability via the in-car audio system
- Status displays such as network name and signal strength

Since the range of functions supported varies greatly between different mobile phones, please refer to the applicable details for your vehicle equipment and mobile phone in the mobile phone compatibility list at www.porsche.com.

In-band ringing

Some mobile phones are able to transfer their ringtone to the vehicle via Bluetooth®. When a call comes in, the PCM then rings with the tone set on the phone rather than its own tone. In this case, the ringtone settings in the PCM are not active. The ringtone can only be set via the phone. The CDR-30 does not support this function.

Call transfer/conferencing

The user has the option, during an active call, of accepting a further incoming call and then swapping between the two calls (transfer). The user can also connect the 2 calls to a three way conference. These functions are supported by many mobile phones. Whether or not these functions can be controlled by the PCM depends on the mobile phone's range of Bluetooth® functions. The CDR-30 does not support these functions.

PCM with telephone module

The PCM with telephone module is an integrated car-phone that requires a SIM card in order to make and receive calls. This SIM card can either be inserted directly into the PCM or accessed on a compatible mobile phone using the Bluetooth® SIM Access Profile. The PCM with telephone module supports the following functions in principle:

- Basic phone functions (making, receiving and ending calls)
- Hands-free capability via the in-car audio system
- Status displays such as network name and signal strength
- Sending DTMF tones
- Managing call lists

- Starting and ending a second call, call transfer and conference call
- Pairing a SIM Access Profile-enabled mobile phone with search by the car
- Automatically connecting a paired device when the system starts
- Transferring phonebook contacts from the mobile phone (contacts on the SIM card and address book contacts from the device) or from the inserted SIM card
- Using a cordless handset to conduct conversations in private mode
- Using Bluetooth® headsets
- Sending and receiving text messages

Register state

The register state refers to the current status of the connection with a mobile phone network. The network name is displayed if the phone is currently connected with a mobile network (if the phone transfers this information). Other possible states include 'network search' or 'registration failed'.

Signal strength

Signal strength is an indicator of the general reception quality on the mobile phone at any given location. It does not correspond to the actual sound quality experienced on a call as the individual voice channels on a mobile network cell can vary considerably in quality. The signal strength is displayed on the PCM/CDR-30 whenever the phone is connected to a network cell, provided the telephone transmits this information.

SIM card

A SIM card (SIM – Subscriber Identity Module) is a mandatory requirement to gain access to a GSM network. In addition to network-specific information used to authenticate the subscriber, a SIM card can be used to carry user data, e.g. phonebook contacts and SMS text messages. The card is PIN-protected to prevent unauthorised access to this data.