

Radiophone / Cassette

Monte Carlo TCM 169

 **RADIOPHONE**

GSM

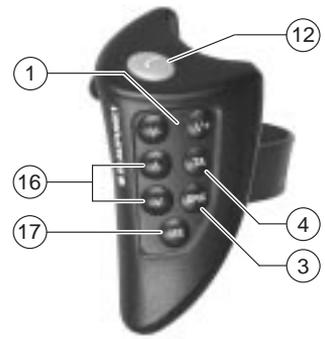
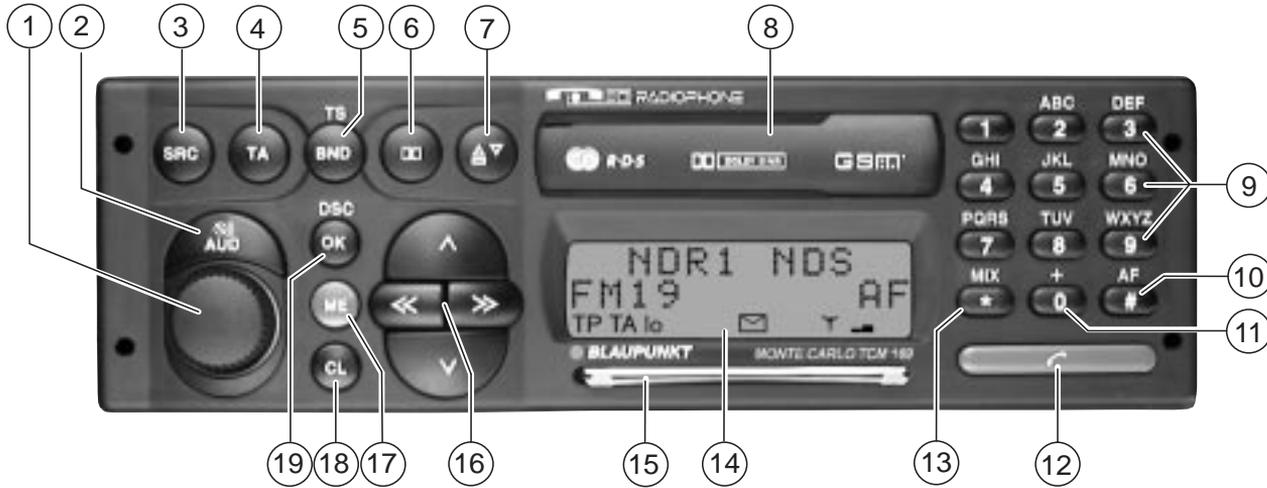
Operating instructions



 **BLAUPUNKT**

Bosch Gruppe

Refer to the Quick Reference for an explanation of the operating elements



Remote control RCT 07 (optional)

Contents Radio, Cassette, Changer (Option)

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Important information

Safety standards

The mobile telephone has been manufactured in accordance with all of the applicable RF safety standards and recommendations determined by the government offices and organisations responsible (e.g. the VDE standard DIN-0848).

General information

The telephone function of your Radiophone is based on the GSM radio telephone standard. This standard was developed for use in Europe and many other countries.

Using the mobile Radiophone, you can make the same telephone calls as you can with a cellular phone.

This assumes that the GSM radio network is available at your location and that you have access privileges and a valid SIM card. This SIM card must be inserted into the unit (if necessary, refer to the information in the section on “KeyCard and SIM card”).

Effects of radio frequency energy

Your Radiophone is both a transmitter and a receiver. It generates minimum amounts of energy in the radio frequency range. While it is in use, the GSM system keeps a constant check on both the frequency and the power.

Warnings that using mobile telephones may be hazardous to your health have recently been a topic of public discussion. For years now, research on the effects of radio frequency energy emitted by FM technology has concentrated on possible adverse effects to your health. Scientists have also begun researching the latest radio technologies such as GSM. According to the research results and by complying with the corresponding safety standards, it is safe to say that this product can be used without reservations.

When the Radiophone is installed properly in your vehicle, using it is even safer than using a portable cellular phone.

If you should still be concerned about the effects of radio frequency energy, there is a lot you can do personally to ensure that you are exposed to a minimum of these radio waves. Of course, it will help to reduce your call time to a minimum but it is especially important to heed the following tips on using this equipment.

Safety information

Traffic safety

Traffic safety always has the highest priority. As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times. Never use your car radio in a way that could distract you.

Please keep in mind that you travel a distance of 14 m per second at a speed of only 50 km/h.

Should the traffic situation become particularly demanding, we advise you not to use the radio.

Always make sure that you are still able to hear any warning signals coming from outside of your vehicle, such as police or fire engine sirens, so that you can react accordingly.

Consequently, you should always select a moderate volume for playing your car radio while you are driving.

Important information

Using the telephone while driving

Please observe all laws and regulations regarding the use to mobile telephones in motor vehicles.

- Concentrate fully on your driving.
- Stop at a safe place before using the telephone.
- If otherwise unavoidable:
Use only hands-free operation if you have to use the telephone while you are driving.

Traffic safety always has the highest priority.

Using the telephone in critical areas

Always switch off the mobile telephone in areas where it is forbidden to use a mobile telephone or if this equipment could cause electromagnetic interference or otherwise dangerous situations.

Using the telephone can result in interference with the correct functioning of medical equipment which is not sufficiently shielded, particularly near the antenna. Please consult a doctor or the manufacturer of the medical device if you have any questions. Other electronic equipment can also be affected by electromagnetic interference.

If you are in an area where there is danger of explosion, e.g. petrol stations, chemical factories or other places where blasting work is being done, switch your telephone off.

Switching off the telephone:

- Press  for approx. 2 seconds. "TELEPHONE OFF" will appear in the display.

Reactivate the telephone:

- Press  briefly.

Emergency calls

As with every other mobile telephone, the Radiophone operates using a combination of mobile radio and cross-country networks, radio signals and functions programmed by the user. As a result, there is no guarantee that your call will always go through. Never depend exclusively on a mobile telephone or similar equipment under life-threatening circumstances (e.g. in medical emergencies).

The telephone interface of the Radiophone is only able to make and receive calls when it is activated and located in an area served by the radio network and when the signal is strong enough.

Emergency calls may not be possible on all mobile telephone networks or only if certain

network services and/or certain performance features are active. Contact the local network operators for more detailed information.

Under certain circumstances, some networks require that a valid SIM card is inserted into the unit.

In the event that certain functions (incoming call barring, call number barring, closed user group, AOC, system barring, keypad barring, etc.) are activated, it may be necessary to deactivate them before placing an emergency call.

Please read this instruction manual for further information and consult your local network operator.

When placing an emergency call, be sure to supply all the necessary information as accurately as possible. Remember that your mobile telephone may be the only means of communication at the scene of an accident. Do not hang up until you are told to do so.

Also read the information in the section on "Telephone operation – GSM emergency calls".

Important information

Installation

Have the Radiophone installed in your vehicle and serviced by a trained service technician only. Faulty installation or servicing can be dangerous and will result in the expiry of your guarantee.

If the vehicle is not adequately shielded against radio frequency signals, electronic fuel injection systems, electronic ABS systems, electronic cruise control systems or other electronic equipment may experience malfunctions.

This equipment must not be operated without a suitable externally mounted GSM or combination antenna. The equipment including the GSM or combination antenna must be installed by an authorised Bosch service centre only.

To ensure trouble-free operation, the positive power supply line must be connected via the ignition and the permanent +12 V lead.

Do not ground the speaker outputs!

Notes on connecting a CD changer, an amplifier or the infrared remote control:

If installation conditions are unfavourable, connecting such accessories as a CD changer, an amplifier or infrared remote control may, in rare cases, lead to interference with the operation of the telephone. This may result in interference noise, deterioration of transmission quality or connections being cut off. In this case, please check the wiring or contact one of our authorised service centres.

Accessories

Use Blaupunkt-approved accessories and spare parts only.

You can use the following Blaupunkt products with this car radio:

Amplifier:

All Blaupunkt amplifiers.

Changer:

CDC-A06/-A08 or -A072 (direct connection)
CDC-A05, -F05, -A071 require an adapter cable.

Remote control:



Using the infrared remote control RCT 07 7 607 570 510 you can conveniently control all of the most important functions of your Radiophone from the steering wheel. The operating functions are described in the Quick References.

Handset

Using the Blaupunkt handset 7 607 570 512 it is possible to place telephone calls with or without the hands-free function.

The system will switch automatically from hands-free to handset operation when the handset is removed from the cradle.

Warning:

There is a relatively strong magnet built into the handset.

Keep away anything which will react to magnetic influence, e.g. diskettes, bank cards, etc. Important data may be deleted.

Guarantee

The scope of the guarantee is determined by the laws in the country where the unit was purchased.

Regardless of the legal guarantee regulations, Blaupunkt affords a 12-month guarantee.

If you have any questions about the guarantee, please contact your dealer. Your cash register receipt is a valid guarantee coupon.

International telephone information

Have you got any questions on the operation of this equipment or do you require more information?

Give us a call!

You will find the international telephone and fax number on the last page of this manual.

KeyCard and SIM card



Basic information

One KeyCard is included with the Radiophone.

The car radio can also be operated with a second “trained” KeyCard or with one of up to 30 trainable SIM cards.

Using the KeyCard it is possible to activate the following operating modes:

Radio, tape deck, CD changer (optional), AUX, telephone emergency call.

Using the SIM card it is possible to activate all operating modes.

The SIM card also incorporates the anti-theft functions.

If necessary (in the event of loss or damage), it is possible to purchase a KeyCard or SIM card from an authorised dealer.

Second KeyCard/SIM card

If you use a second KeyCard or a SIM card, the settings will be transferred from the first KeyCard.

The following personal settings will remain stored for two KeyCards and the first two SIM cards:

Station presets, treble, bass, balance and fader, Loudness on/off, TA (traffic announcement volume), FIX volume.

The two KeyCards and the first two SIM cards will store the last setting selected for the waveband, bass/treble, fader/balance, station settings, station presets, FIX volume.

When you insert your KeyCard or one of the first two SIM cards, you will find that the equipment switches onto the basic settings you have already programmed.

Wrong KeyCard

If a KeyCard from another radio is inserted into the unit, “KEYCARD ERROR” will appear in the display. Please do not try to operate the equipment.

After approx. 8 sec. the radio will switch off automatically.

If the wrong KeyCard is inserted four times, the waiting time will increase to one hour.

If you attempt to insert a different kind of card (e.g. telephone or credit card), “CHECK KEYCARD” or “PRÜFE KEYCARD” will appear in the display for approx. 2 sec.

Remove the wrong card and replace it with a valid KeyCard or SIM card.

Starting up the Radiophone

- Switch the unit on (press ①).

Important!

The Card tongue must protrude - then insert the KeyCard included with the Radiophone into the slot with the contact surface facing up.

Do not try to insert the KeyCard when the tongue is retracted as this may damage the KeyCard mechanism.

The Radiophone is now ready for operation.

Resuming equipment operation after the power has been disconnected

If the Radiophone is disconnected from the battery (e.g. during repairs) and then reconnected, a trained KeyCard or the master SIM card is required to resume equipment operation and to reactivate the other trained SIM cards.

Selecting the language for the display

At the factory the texts for the display are set to English.

You can display the texts in other languages if you wish.

- Press **DSC/OK**.
- Press \wedge/\vee until “LANGUAGE” appears in the display.

KeyCard and SIM card

- Press **DSC/OK** and << / >> to select the language.
- Press **DSC/OK** and **CL** one after the other.

Removing the KeyCard/SIM card

⚠ **Never forcibly pull out the card!
You may destroy it.**

- First push the card in gently towards the unit.

The KeyCard/SIM card will eject slightly so that you can remove it.

- Remove the card.

When you remove the card for the first time, “LEARN CARD” will appear in the display. Now you can train additional cards (refer to “Train SIM cards”).

After this process has ended, the Radiophone will switch off when the card has been removed.

Train KeyCard/SIM cards

In the initial programming process you can easily train the second KeyCard and up to 30 SIM cards.

In order to do this the Radiophone must be switched on and the original KeyCard inserted.

- Remove the original KeyCard and insert the first SIM card.

“NAME?” will appear in the display.

If you like, you can enter a name of up to 8 characters. Please refer to “How to enter a name/text”.

If you would like to skip this function or after you have entered the name:

- Press **OK**.

The first SIM card has been programmed. “TERMINATE? PRESS OK” will appear in the display. Now you can programme additional cards.

To finish the programming process:

- Press **OK**.

The SIM card trained first assumes the additional function of master SIM card. Other SIM cards can only be trained using either the master SIM card or the KeyCard.

There are two basic ways in which you can train other SIM cards:

a) Training or replace KeyCard/ SIM card using DSC

DSC – LEARN CARD

One KeyCard or up to 30 SIM cards can be trained or replaced as additional cards.

- Insert the first KeyCard (included with the Radiophone) into the unit and switch the unit on.

- Press **DSC/OK** and press \wedge/\vee to select “LEARN CARD”.

- Press **DSC/OK** briefly.

“CHANGE CARD” will appear in the display.

- Remove the first KeyCard and insert the new card (KeyCard or SIM card).

After insertion of a SIM card only: The display shows “NAME?”.

If you wish, you can now enter a name of up to 8 characters.

If necessary, refer to the section on “How to enter a name/text”.

- Press **DSC/OK**.

- Enter the PIN code and press **DSC/OK**.

After “CODE OK”, the display will show, for example, “SIM CARD 23 ACCEPTED” (i.e. the 23rd SIM card has been trained).

The Radiophone can now be operated using the new cards.

A maximum of two KeyCards and 30 SIM cards can be trained in this way.

If you attempt to program a third KeyCard, the KeyCard which was not part of the programming process will automatically become invalid.

If 30 SIM cards have been programmed, it will be necessary to delete old access authorizations before new cards can be trained.

Note:

If the Radiophone is disconnected from the battery (during repairs, for example) and then re-connected, a KeyCard or the master SIM card is required to switch the equipment back on and re-activate the other trained SIM cards.

b) Training new cards after removing the KeyCard or master SIM card

If this function is activated in the DSC learn mode, it is possible to train another SIM card each time the KeyCard/master SIM card is removed. This function is useful if you want to train several cards one after the other (fleet management).

c) Deleting SIM card authorisations

The authorisation for SIM cards can be deleted using the CARD LIST in the

DSC menu. The master SIM card can be deleted with a KeyCard only.

DSC learn mode

With this function you can select whether you want to train additional SIM cards using the DSC menu only or each time after removing the KeyCard or the master SIM card as well.

For operating instructions refer to “Programming with DSC – LEARN MODE”.

Displaying the radio pass data

Using the KeyCard supplied with your set you can have the radio pass data such as the model name, product number (7 6...) and serial number indicated in the display. Please refer to the section on “Programming with DSC – READ KEYCARD”.

Optical warning of anti-theft protection

KeyCard tongue flashes

When the vehicle has been parked and the KeyCard or SIM card removed, the KeyCard tongue can be switched to flash to provide additional anti-theft protection.

For this function to operate properly it is necessary that the positive power supply line

and the permanent +12 V lead are connected as described in the installation instructions.

Be sure that “KEYCARD LED ON” has been selected in the DSC mode.

If necessary, refer to the section on “Programming with DSC – KEYCARD LED”.

Switching off the flashing light

The flashing light can be switched off by pushing in the KeyCard tongue gently until it locks.

If you would like to deactivate the flashing tongue altogether, select the “KEYCARD LED OFF” item in the DSC menu:

Care of your KeyCard/SIM card

In order to ensure that the card always functions correctly, the contacts must be free of any foreign particles. Avoid direct skin contact.

Do not subject the cards to direct sunlight. If necessary, clean the card contacts using a cotton swab dipped in rubbing alcohol.

Quick reference for operating the radio, tape deck and CD changer (optional)

① On/off Volume

To switch the Radiophone on, press the knob (volume control). A valid KeyCard or SIM card must be inserted in the unit already or within the next 15 seconds.



Switching the unit on/off with the KeyCard:

If the equipment has been switched on by pressing knob ①, then it can be switched off and on again with the KeyCard or SIM card.

This assumes that the program has been switched to “MENU” under “LEARN MODE” in the DSC menu.

Note:

Be sure to read the information in the section on “KeyCard/SIM card anti-theft protection system”.

Switching the unit on/off via the ignition:

If the equipment has been connected properly, it can be switched on and off with the vehicle ignition.

When the ignition has been switched off, the unit will emit a double beep to remind you to remove the KeyCard/SIM card before leaving your vehicle. If you switch off the ignition during a telephone call, the Radiophone will remain switched on until you have completed the call.

Switching the radio on when the ignition is switched off

When the ignition is switched off (card is inserted) the equipment will continue to function as follows:

After you hear the double beep, press the knob. The equipment will switch back on. After one hour's playing time, the Radiophone will switch off automatically to prevent the car battery from going dead.

Operation in combination with an ignition timer

If the ignition timer has been activated in the DSC mode, the Radiophone will switch off as programmed after the ignition is switched off (refer to the section on “Programming with DSC - IGNITION TIMER”).

Altering the volume

Turn the knob to alter the volume. The setting will appear in the display. When the Radiophone is switched on, it will play at a preset volume (VOLUME FIX).

VOLUME FIX can be altered as desired (refer to “Programming with DSC - VOLUME FIX”).

The volume can also be altered using the remote control (optional) by pressing **V-** / **V+**.



Quick reference for operating the radio, tape deck and CD changer (optional)

② / **AUD**

Press **AUD** once:

Alter treble and bass settings using the rocker switch.

-  Treble +
-  Treble -
-  Bass -
-  Bass +

Press **AUD** twice:

Alter balance (left/right) and fader (front/rear) settings.

-  Fader front
-  Fader rear
-  Balance left
-  Balance right

The settings will be indicated in the display. The last setting made will be stored automatically.

Switch off **AUD**: Press **AUD** for a third time.

If no changes are made for a period of 8 seconds, the **AUD** setting will end automatically.

Switching Loudness on/off:

Press **AUD** for approx. 1 sec. (beep). The current setting will appear briefly in the display (ON/OFF).

For more detailed information refer to "Programming with DSC - LOUDNESS".

③ **SRC** (Source)

You can switch between the operating modes for radio, cassette and changer (option) or an auxiliary unit.

You can switch from the telephone menu back to the last operating mode selected.

This assumes that you are not talking on the telephone or trying to place a call.

④ **TA** (Traffic Announcement = priority for traffic messages)

If "TA" appears in the display, you will be able to tune into radio stations which broadcast traffic information only.

Switch priority on/off: press **TA**.

⑤ **TS / BND**

Switch between the memory levels/wavebands FM, TS (Travelstore), MW and LW.

Additional Travelstore function

Store the nine radio stations with the strongest reception signals using **Travelstore**: Press **BND** until you hear a beep or until "TRAVELSTORE" appears in the display.

⑥

Dolby B NR*

Cassettes recorded with Dolby B NR will be played back in the best quality possible if "DOLBY" appears in the second line.

* Noise reduction system manufactured under licence by Dolby Laboratories. The word Dolby and the double-D symbol are trademarks of Dolby Laboratories.

⑦

Eject cassette

Press the button until the cassette ejects.

Track switch

Press the button briefly to switch cassette playback to the other track (side) of the tape.

Quick reference for operating the radio, tape deck and CD changer (optional)

8 **Cassette loading slot**

Insert the cassette (side A or 1 facing up, open side to the right).

9 **Selection buttons**

Radio mode

Entering the frequency directly

You can enter an FM frequency directly using the selection buttons: First press "0" and then enter the desired frequency, starting with the first digit. It is only possible to enter frequencies between 87.5 and 108. Omit the decimal point in the entry. Press **CL** to abort the entry, press **OK** to confirm the entry. Once all of the digits have been entered, the entry will be confirmed automatically.

Storing radio stations

You can use the buttons to store the following number of radio stations for the different wavebands:

FM	19
TS (FM-Travelstore)	9
MW	9
LW	9

To store – During radio operation press one of the selection presets until you hear a beep. If you want to store the station on a two-digit preset, first press "1" and then press the second digit within 2 sec. until you hear a beep.

Recalling stored radio stations – Select the desired waveband (select "FM" or "TS" in the FM range) and press the corresponding button. Activate the presets from 10 to 19 by pressing "1" briefly first and then pressing the second button within two seconds.

Tape mode

It is possible to set or correct the number of titles to be skipped for S-CPS (Super Cassette Program Search) or fast forward.

CD changer mode (optional)

CDs 1 to 10 can be selected directly on the 12-key keypad (0 = CD 10).

10 **AF / #**

Alternative Frequency for RDS operation: When "AF" appears in the display the radio will automatically use RDS to find for the best reception frequency for the programme you are listening to. Switching AF on/off: Press **AF** briefly.

Switching the regional function on/off: Press **AF** for approx. 2 seconds (beep), "REGIONAL ON" or "REGIONAL OFF" will appear briefly in the first line in the display.

When the regional function is switched on "REG" will appear in the display on the right.

11 **+ / 0**

Press this button before you enter a radio station frequency directly.

Quick reference for operating the radio, tape deck and CD changer (optional)

13 MIX / *

Radio operation

Switch seek-tuning sensitivity:

Press button briefly.

If "lo" is displayed, the radio will only pick up strong, local stations (normal sensitivity).

If "lo" does not light up, the radio will also pick up weaker, more distant stations (high sensitivity).

CD changer operation (optional)

MIX CD

The tracks of a CD will be played back in random order.

The following CDs will also be selected at random.

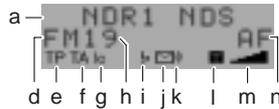
MIX OFF

The MIX function is switched off.

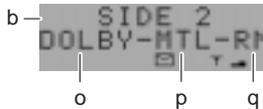
Press **MIX** until the desired function appears in the display.

14 Display

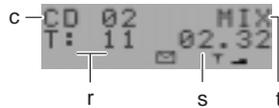
Radio operation



Cassette operation



Changer operation (optional)



- a) NDR1 NDS - Station name
- b) Side 2 - Side 2 of the cassette
- c) CD 02 - CD number
- d) FM - Radio waveband
- e) TP - Radio station broadcasting traffic information (is currently being received)
- f) TA - Traffic announcement priority

- g) lo - Seek tuning sensitivity
- h) 19/T9 - Indicates on which button the station currently playing is stored (1-19)/Travelstore (1-9)
- i) ⏭ - Call forwarding is active
- j) ✉ - Indicates that a SMS message is stored
- k) 🗣 - Also appears when a voice message has been received
- l) 📶 - Connection with GSM radio network
- m) 📶 - GSM field strength indicator
- n) AF - Alternative frequency for RDS
- o) DOLBY - Dolby B NR
- p) MTL - Metal or CrO₂ cassettes are currently playing
- q) RM - Radio Monitor (listen to radio during tape fast forward or rewind)
- r) T: 11 - CD track number
- s) 02.32 - CD time (time played)
- t) MIX - CD track random play

Quick reference for operating the radio, tape deck and CD changer (optional)

15 Anti-theft card protection system

In order to operate the radio equipment it is necessary to first insert the KeyCard included with the unit or a KeyCard you have trained accordingly or a programmed SIM card.



Please read the information in the section on “Anti-theft card protection system” carefully.

Flashing card tongue

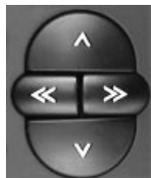
If the radio has been switched off and the KeyCard or SIM card removed, the card tongue will flash as additional theft protection if the corresponding setting has been activated.

For more detailed information, please refer to “Programming with DSC”.

It is possible to switch off the flashing light by pressing the card tongue in gently until it locks into place.

16 Rocker switch

Radio operation



▲/▼ Seek tuning

▲ Upwards

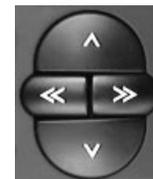
▼ Downwards

<< / >> Up or down in increments
(for FM only when AF is switched off)

For FM only:

<< / >> Scroll through the station broadcasting network when AF is switched on
e.g. NDR 1, 2, 3, 4, N-JOY.

Tape operation



>> **Fast forward**

<< **Fast rewind**

▲/▼ **Select title (S-CPS)**

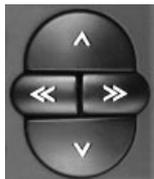
▲ Forwards

▼ Back

Stop this function by pressing \triangle/∇ or the opposite button.

Quick reference for operating the radio, tape deck and CD changer (optional)

CD changer operation (optional)



Select CD

- ▲ Up
- ▼ Down

Select track

- **Up:** Press briefly.
- CUE - fast forward (audible):** Hold button pressed down.
- **Down:** Press two or more times one after the other.
- Restart the same track:** Press once briefly.
- REVIEW - fast reverse (audible):** Hold button pressed down.

Additional rocker switch functions:

Additional settings possible with

AUD ²

DSC mode ¹⁹

The corresponding function must be activated.

17 **ME**

Unit:

Telephone functions only.

Remote control:



During radio operation it is possible to recall stored radio stations in ascending order.

During CD changer operation, the CDs are selected in ascending order.

18 **CL (CLEAR)**

Press this button to quit the currently active menu item in the DSC mode. Any changes made will not be stored. Press **CL** again to quit the DSC mode.

Cancels direct frequency entry.

19 **DSC / OK**

DSC (Direct Software Control)

Use DSC to adjust the programmable basic settings.

OK

Press to store the altered settings.

Activate DSC: Press the button briefly.

Select function: Press ▲ / ▼.

Display setting adjustments: Press **DSC/OK**.

Alter settings: Press << / >>.

Store: Press **OK**.

Quit DSC: Press **CL**.

If you quit DSC by pressing **CL** before you press **OK**, any changes made to the settings will not be stored.

For more information refer to "Programming with DSC".

Audio mode

(Radio, tape deck, CD changer (optional), auxiliary source)

During audio operation you can use **SRC** to switch between radio, cassette and changer (option) or an auxiliary sound source.

When in telephone mode, you can switch back to the audio source used last by pressing **SRC**.

Telephone operation has priority. As a result, you cannot switch to audio mode unless you are not currently talking on the telephone or trying to place a call.

- Press **SRC** repeatedly until the functions of the audio source you wish to listen to appear in the display.

You cannot select tape or CD changer operation unless a cassette/magazine containing CDs has already been inserted.

If an empty magazine has been inserted, "NO CD" will appear in the display.

An auxiliary source can only be selected if a Blaupunkt changer has not been connected to the system. "AUXILIARY SOURCE ON" must be set in the DSC menu.

The **Radio Data System** offers you added convenience when listening to FM radio stations.

More and more radio stations have begun to broadcast RDS information along with their regular programmes.

As soon as a programme has been identified, the station name including a regional identifier, if applicable, will appear in the display, for example, NDR1 NDS (regional programme in Lower Saxony, Germany).

When RDS is activated, the preset buttons become programme buttons. You now know exactly which programme you have tuned into, making it easy to find the desired station quickly.

RDS also offers other advantages:

AF - Alternative Frequency

The **AF (Alternative Frequency)** function makes sure that the radio always automatically tunes into the strongest frequency of the currently selected programme.

If this function has been activated "AF" will appear in the display.

In order to switch this function on or off,

- press **AF/#** briefly.

While searching for the strongest reception signal, the radio may switch to mute briefly.

If "SEARCH" appears in the display when switching on the radio or recalling one of the stored frequencies, the unit is automatically searching for an alternative frequency.

"SEARCH" will disappear from the display when the alternative frequency has been found or after the frequency band has run through completely.

If the reception quality of the selected programme becomes poor:

- Tune into a different station.

REG - regional programme

Certain radio programmes are split up at times into regional programmes offering local information. The 1st programme broadcast by NDR, for example, offers programmes with different contents in the northern states of Germany including Schleswig-Holstein, Hamburg and Lower Saxony at certain times of the day.

If you are listening to one regional programme and move to an area where another linked regional programme becomes stronger, the unit will switch to that programme.

Radio operation with RDS (Radio Data System)

If you wish to continue listening to the first programme, switch REGIONAL ON by

- pressing **AF/#** for approximately 1 second until "REGIONAL ON" appears in the first line.

When the regional function has been switched on "REG" will replace "AF" in the display.

If you leave the service area of the regional programme you are currently tuned into, or if you would like to take advantage of the full RDS service, switch to "REGIONAL OFF".

- Press **AF/#** for approximately 1 second until "REGIONAL OFF" appears.

Selecting a waveband

You can select between the following wavebands:

FM 87.5 - 108 MHz
MW 531 - 1602 kHz
LW 153 - 279 kHz

- Use **BND** to select the waveband. Press repeatedly if necessary.

Station tuning

Seek tuning \wedge/\vee

- Press \wedge/\vee ; the car radio will automatically search for the next station.

If you hold down \wedge/\vee (also applies to remote control operation), seek tuning will speed up in upwards or downwards direction.



Seek tuning

\wedge Up
 \vee Down

\ll / \gg Up/Down in increments (for FM only when AF is switched off)

Manual tuning with \ll / \gg

You can also tune in a station manually.

Important:

AF must be switched off (i.e. the "AF" or "REG" symbol does not light up in the display).

If necessary, deactivate this function:

- Press **AF/#**.

Manual tuning:

- Press \ll / \gg ; the frequency will change in degrees in the downwards or upwards direction.

If you hold down the right or left part of the rocker switch, the frequency scan will speed up in the corresponding direction.

Entering the frequency directly

For FM or FMT, it is possible to enter the station frequency directly.

Start your entry

- by pressing **0**.
- Then enter the frequency, beginning with the first digit. You need not enter a decimal point.

Press **CL** to cancel this process or **OK** to confirm your selection.

Scrolling through the broadcasting networks (FM only)

You can use the << / >> buttons to tune into stations in your reception area.

If it is possible to receive several programmes in the same broadcasting network, you can scroll through them in the forwards direction by pressing >>, or backwards using the << button, e.g. NDR 1, 2, 3, 4, N-JOY.

You must have tuned into these stations at least once previously and "AF" must be active (lights up in the display).

Start Travelstore, for example:

- Press **BND** for 2 seconds; the system starts to run through the frequency band.

If "AF" does not light up,

- press **AF/#**.

This fulfils the requirements for selecting stations with << / >>.

Storing radio stations

You can store the following number of stations on the selection buttons for each of the individual wavebands:

FM	19
TS (FM-Travelstore)	9
MW	9
LW	9

- Use **BND** to select the desired waveband.
- Select a radio station using the rocker switch (automatically with \wedge/\vee or manually with << / >>).
- Press the desired selection button for approx. 1 sec. until you hear a beep.

If you want to store the radio station on a two-digit preset,

- press button **1** briefly and the second button within 2 sec. until you hear a beep.

You have now stored the radio station.

The station preset will appear in the display.

Note:

If you attempt to store a station which is already stored, the number of the corresponding selection button and the memory bank will flash in the display briefly if you are using the same memory bank.

Automatically storing the stations with the strongest reception using Travelstore

You can automatically store the nine most powerful FM stations of your current reception area sorted according to their signal strength. This function is particularly convenient during longer trips.

- Press **BND/TS** for 2 seconds.

"TRAVELSTORE" will flash in the display.

The nine FM stations with the best reception will be stored automatically in the FMT (FM Travelstore) memory bank. When this procedure has been completed, the radio will switch to the station with the best reception stored on selection button **1**.

If desired, stations can also be stored manually on the Travelstore memory bank (refer to "Storing radio stations").

Recalling stored radio stations

You can recall any stored radio station at the touch of a button.

- Press **BND/TS** repeatedly until the desired waveband appears in the display.
- Press the corresponding selection button briefly.

If you wish to recall a station stored on a two-digit preset (e.g. preset 19) first press **1** and then **9** within the next 2 seconds.

Selecting the seek-tuning sensitivity

You can alter the automatic seek-tuning sensitivity.

If “lo” is displayed, the radio will only pick up strong, local stations.

If “lo” is switched off, the radio will also pick up weaker, more distant stations.

To switch the seek tuning sensitivity:

- Press *****.

The sensitivity level can be selected separately for both modes. (Please refer to the section on “Programming with DSC – DX-LEVEL / LO-LEVEL”).

Switching from stereo to mono (FM only)

Every time the radio is switched on, stereo playback will be activated automatically.

The unit will gradually switch to mono if the reception deteriorates beyond a certain point.

Traffic programme station reception with RDS-EON

The abbreviation “EON” stands for Enhanced Other Networks which means that information is exchanged between the radio stations belonging to the same broadcasting network.

Many FM broadcasters provide traffic messages for their service area at regular intervals.

All traffic programme stations transmit a special carrier signal along with their programmes, which is decoded by your car radio. If this signal is identified, “TP” will appear in the display (**T**raffic **P**rogramme).

In addition to these, there are also stations which do not actually transmit traffic programmes themselves, but by using RDS-EON it is possible to receive the traffic messages broadcast by another traffic programme station in the same radio network.

If you wish to have the priority for traffic announcements activated while listening to one of these stations (e.g. NDR3), “TA” must appear in the display.

If a traffic announcement is broadcast, the radio will automatically switch to the linked traffic programme station (in this case, NDR2) for the duration of the message and return to the original programme (NDR3) afterwards.

Switching traffic announcement priority on/off

If the priority for traffic announcement programmes is activated, “TA” will light up in the display.

To switch the priority on or off:

- Press **TA**.

If you press **TA** while a message is being broadcast, this message will be interrupted.

The unit will then switch back to its previous status. The priority for all other traffic messages will remain active.

Please note that several buttons have no function while traffic announcements are broadcast.

Adjusting the volume for traffic announcements and the beep tone

Although this volume was preset at the factory, you can alter it using the DSC function (see “Programming with DSC – TA VOL-UME”).

Beep tone

When a traffic programme station is activated (“TA” in the display), you will hear a beep tone after approximately 30 seconds if you leave the reception area of the traffic programme station you are currently tuned into.

You will also hear this beep if you press a station preset button for a radio station which does not broadcast the TP signal.

Switching off the beep tone

- a) Tune into another station providing traffic information:
 - Press the rocker switch or
 - press a preset button for a radio station which has a traffic programme station allocated to it.
- or
- b) Switch off the priority for traffic announcements:
 - Press **TA**.
“TA” will disappear from the display.

Automatic seek tuning start

(tape and CD changer operation)

If you leave the reception area of the current traffic programme station while listening to a tape or CD, the system will automatically start searching for a new TA programme.

Operating the cassette deck

The equipment must be switched on.

As soon as you insert a cassette, the set will automatically switch to cassette operation.

The cassette will not begin to play

- a) as long as a telephone call is in progress or being placed, or
- b) as long as a priority traffic announcement is playing.

Inserting the cassette

- Switch the unit on.
- Insert a cassette.

The cassette will be pulled into the unit automatically and Side A or 1 will begin to play. The display will indicate the cassette functions.

Insert the cassette with side A or 1 facing up and the open side facing to the right.



Ejecting the cassette

- Press $\triangle\nabla$ for approx. 2 sec. The cassette will eject.

Fast forward/rewind



- \gg **Fast forward**
- \ll **Fast rewind**

Using the remote control you can start to fast forward/rewind the tape by pressing \blacktriangle / \blacktriangledown for more than 1 second.

- \blacktriangle / \blacktriangledown **Select title (S-CPS)**
(also possible using the remote control)
 - \blacktriangle forwards
 - \blacktriangledown back

Stop function by pressing $\triangle\nabla$.

Selecting titles with S-CPS (Super Cassette Program Search)

To repeat or skip titles on the cassette press \blacktriangle (forwards) / \blacktriangledown (back).

You can skip up to 99 titles

- by pressing the rocker switch as often as required.

Remote control



The number of titles to be skipped will appear in the display.

Correct by pressing the opposite button. During fast forward or rewind, up to 9 titles can be skipped. The desired number can be entered or corrected with the selection buttons.

To stop the function immediately, press $\triangle\nabla$. Important for S-CPS: There must be an unrecorded tape portion of at least 3 seconds between the titles.

Changing the track (Autoreverse)

Switch the direction in which the tape is playing during playback

- by pressing $\triangle\nabla$.

When the tape has reached the end, it will switch automatically to the other track. "SIDE 1" or "SIDE 2" will appear in the display.

Note:

If there is too much tension on the tape while it is playing, it may switch to the opposite track before it has reached the end. Check to see if the tape is wound correctly. It often helps to rewind the cassette completely.

Operating the cassette deck

Tape equalisation

The unit is able to identify the following tape types: iron oxide, chrome oxide or metal; it will switch to the corresponding setting automatically.

When metal or chrome cassettes are played "MTL" will light up in the display.

Dolby B NR*

This equipment is able to play back cassettes which have been recorded using Dolby B NR or without noise reduction.

There is far less tape noise and the sound dynamics are correspondingly greater on cassettes recorded using Dolby NR*.

"DOLBY" will light up in the display when Dolby B NR is switched on.

Switching on/off:

- Press **NR**.

* Noise reduction system manufactured under licence by Dolby Laboratories. The word Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Listening to the radio while fast forwarding/rewinding the tape with RM (Radio Monitor)

While fast forwarding or rewinding the tape, you can listen to the radio instead of the usual muting (also applies for S-CPS).

The "RAD. MONITOR ON" setting must be activated in DSC mode.

Refer to "Programming with DSC – RAD. MONITOR" if necessary.

Care instructions

You should use only C60/C90 tape cassettes in your car. Protect your cassettes against dirt, dust and temperatures over 50 °C. Allow cold cassettes to warm up somewhat before playing them to ensure that the tape plays smoothly. Malfunctions in playback or sound may be caused by dirt build-up on the pinch roller and the audio head after approx. 100 hours of operation.

To remove normal dirt build-up clean the equipment with a cleaning cassette. In more stubborn cases, use a cotton swab dipped in rubbing alcohol. Never insert hard instruments into the tape deck.

CD changer operation (optional)

You can use this equipment to conveniently play back CDs with one of the following Blaupunkt CD changers: CDC A06/A 08 or A 072 (directly) or CDC-A 05/-F 05/A 071 (with an adapter).

The changer is not included with this equipment and can be purchased separately at a retail outlet.

Note:

Use only standard circular CDs measuring 12 cm in diameter!

CDs measuring 8 cm in diameter or CDs in different shapes such as a butterfly or beer mug are not suitable for playback using this equipment.

This may result in the destruction of the CD or the CD drive.

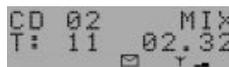
We assume no liability for damage to the equipment caused by playing unsuitable CDs.

Switching CD changer operation on

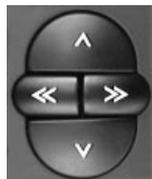
A magazine containing at least one CD must be inserted.

Use **SRC** to switch the audio source:

- Press **SRC** until the changer functions appear in the display.



Selecting the CD and the track



Remote control



Select a CD

- ▲ upwards
- ▼ downwards

Enter the number of the CD you wish to select directly using the numbers keypad.
Use the remote control to select a CD in ascending order by pressing the **ME** button.

Selecting a track

is also possible using the remote control

- ▶▶ **upwards**: press briefly
CUE - fast forward (audible): hold pressed down.
- ◀◀ **downwards**: press briefly twice or repeatedly
Restart current track: press briefly.
REVIEW - fast reverse (audible): hold pressed down.

Press **▲/▼** on the remote control to select the track up or down.

MIX

CD tracks can be played in random order. If "MIX" is illuminated in the display, all of the tracks on a CD will be played in random order.

Following this, the next CD will be selected at random and played, etc.

Switching MIX on/off:

- press **MIX/*** briefly.

Programming with DSC Radio, Cassette, Changer (optional)

The car radio is equipped with DSC (**D**irect **S**oftware **C**ontrol), enabling you to adjust settings and functions to your personal needs and to store these settings.

The equipment has been adjusted to default settings at the factory.

There is an overview of the factory default settings at the end of this section so that you can reset these settings at any time.

If you wish to alter any programming

- press **DSC/OK**.

Select:

Use the rocker switch \wedge/\vee to select the menu item you wish to alter and confirm your selection by pressing **OK**.

Alter:

Press \ll / \gg to alter the setting indicated in the display.

Cancel:

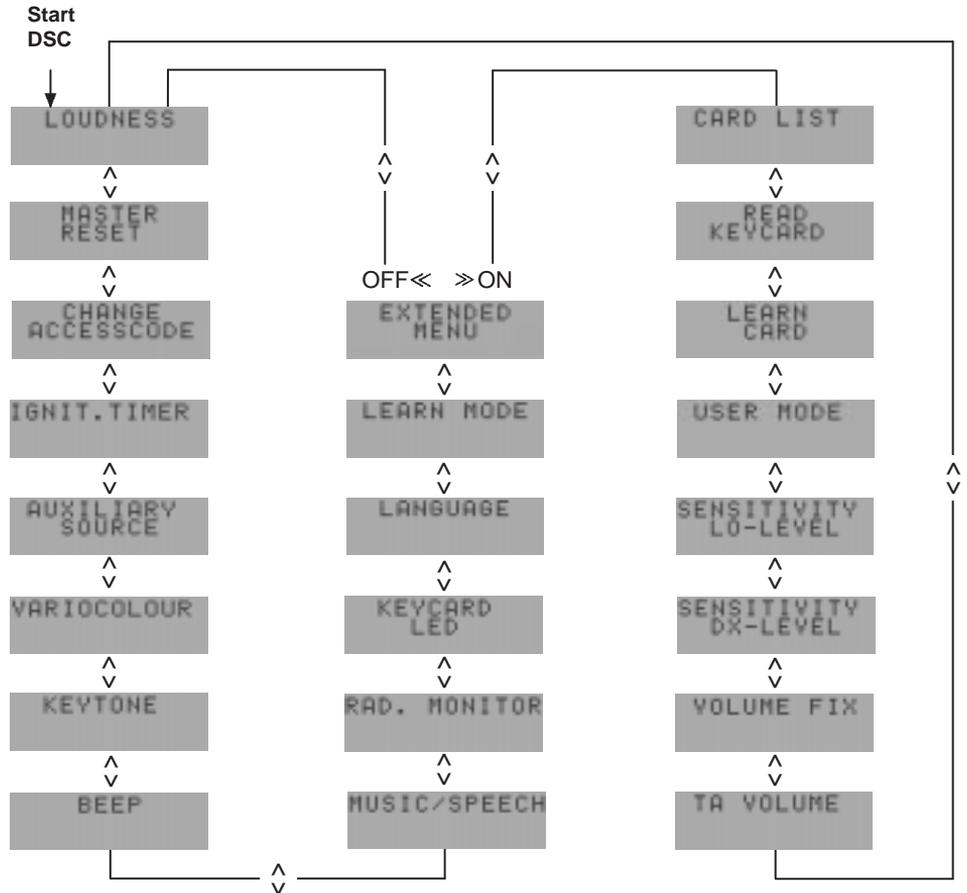
- Press **CL**. The new setting will not be saved.

Store:

- Press **DSC/OK**.

Exit DSC:

- Press **CL**.



To quit DSC (from any menu item): Press **CL**

Programming with DSC Radio, Cassette, Changer (optional)

You cannot alter the programming for important DSC settings unless you have entered the access code first (refer to the DSC menu item "CHANGE ACCESS-CODE").



^/V Select function
<< / >> Make setting

LOUDNESS

Boosts low frequencies for more bass, especially at low volume.

LOUD 1 - minimum boost

LOUD 6 - maximum boost

MASTER RESET

This menu item will appear only if a Key-Card is inserted.

Important!

This function will reset **all** of the settings in the DSC menu including the telephone menu to the factory default settings.

All of the trained KeyCards and SIM cards will be deleted, except for the KeyCard currently in the unit.

If this menu item is selected, it will be necessary to enter the access code after **OK**. Enter the access code, press **OK**.

The display will show "MASTER RESET?": Press **CL** to cancel this function, press **OK** to reset all of the settings to the default settings.

CHANGE ACCESSCODE

The access code is used to access the important DSC menu items (also for telephone operation). At the factory, this code is set to "0000".

If you would like to alter it **be sure to make a note of the new code!**

Enter the original code (in this case "0000") and press **OK**.

Enter the new code, press **OK**. Enter the new code once again, press **OK**.

IGNITION TIMER

Use this setting to ensure that the car radio will play for a maximum of 90 minutes after the ignition has been switched off.

0 = ignition timer switched off.

AUXILIARY SOURCE

This menu item will not appear if a CD changer (A 05 or A 06) has been connected to the system.

The default setting is "AUXILIARY SOURCE OFF".

If an external piece of equipment is connected to the system, this setting must be switched to "AUXILIARY SOURCE ON".

VARIOCOLOUR

Adjusts the colour of the display illumination to the dashboard illumination.

green " red

KEY TONE

After a key is pressed, a short beep is emitted as confirmation.

Set volume from 0 to 9 (0 = off).

Programming with DSC Radio, Cassette, Changer (optional)

BEEP

Confirmation beep following functions which require you to press the button for longer than 1 sec.

Set volume from 0 to 9 (0 = off).

MUSIC/SPEECH

In future, different RDS radio stations will differentiate between music and voice programs.

The tone setting for voice programs ranges between "LEVEL 0 ... 4".

LEVEL 0:

Music/voice is switched off.

LEVEL 1:

Linear (no bass, treble, loudness adjustment).

LEVEL 2-4:

Different settings for volume, bass and treble with loudness switched off.

Test the settings to find out which one you prefer.

RAD. MONITOR (Radio Monitor)

Allows you to listen to the radio while fast forwarding/rewinding the cassette.

Switching the Radio Monitor function on/off: Press << / >>.

During tape deck operation, "RM" will light up in the display if this function is activated.

When the tape is being fast forwarded/rewound you will be able to hear the radio.

KEYCARD LED

You can choose between LED ON or LED OFF. The KeyCard tongue will flash if you select LED ON. It acts as additional protection when the set is switched off and the KeyCard has been removed.

LANGUAGE

The display texts are available in different languages.

If "AUTOMATIC" has been selected, English will be the language used for the display texts when the KeyCard has been inserted.

If a SIM card is used, the language selected on the card will be the language which appears in the display.

LEARN MODE

With this function you can determine whether additional cards can be programmed using the DSC menu only or after the currently valid KeyCard or the Master SIM card has been removed as well.

MENU –

Cards can only be programmed with the help of the DSC menu.

MENU PLUS –

Additional simple method of programming cards:

Remove the KeyCard or Master SIM card and insert another card within 15 sec.

You can continue training cards with other cards.

EXTENDED MENU

Using this function it is possible to press << / >> to remove the following menu items which are rarely altered.

This makes the menu more manageable.

OFF – Remove menu items.

ON – All of the menu items are available.

CARD LIST

It is possible to display a list containing all of the valid SIM cards. You can delete individual entries if you wish.

The Master-SIM can be deleted with a KeyCard only.

WARNING!

If the entry is deleted, it will no longer be possible to operate the unit using this card. After pressing **OK** you must enter the access code and confirm your entry by pressing **OK**.

The entries can be viewed by pressing \wedge/\vee .

Programming with DSC Radio, Cassette, Changer (optional)

After **OK** "CLEAR?" will appear in the display.

Press **<< / >>** to choose between CLEAR? and NAME? (alter).

Press **CL** to cancel the process, press **OK** to confirm the process.

If you want to enter/alter names, please refer to "Telephone book menu – Add entry". It is not possible to clear the card inserted in the set.

Note that the master SIM card can be cleared with the KeyCard only.

READ KEYCARD

This menu item will appear only if a KeyCard is inserted.

It is possible to read out the data on a KeyCard.

Using the KeyCard which was included with the delivery, it is possible to display the equipment data such as name, type number (76 ...) and serial number.

If you remove the KeyCard while it is being read, "CHANGE CARD" will appear in the display. It is possible to read the information on any KeyCards, even those for different car radios. It is not possible to operate the unit, except to switch it off. As long as a KeyCard for this unit is inserted, you can switch back to radio operation by pressing **OK**.

LEARN CARD

You can program a second KeyCard or up to 30 SIM cards.

Refer to the information on "KeyCards and SIM cards - Programming the KeyCard/SIM card".

USER MODE

You can choose among the following operating modes:

RADIO ONLY

PHONE ONLY

STANDARD

(all operating modes can be selected).

Any changes will not take effect until you have exited the menu.

LO-LEVEL SENSITIVITY

Sets the search sensitivity for local reception.

LO-LEVEL 1 – high sensitivity

LO-LEVEL 3 – normal sensitivity

DX-LEVEL SENSITIVITY

Sets the search sensitivity for distant reception.

DX-LEVEL 1 – high sensitivity

DX-LEVEL 3 – normal sensitivity

VOLUME FIX

Allows you to set the volume at which the unit switches on.

Use **<< / >>** to set the desired volume. If "LEVEL +00" is selected, the car radio will switch on at the volume level which was last set before it was switched off.

TA VOLUME

The volume for traffic messages and the beep can be adjusted.

The traffic message will be played at this volume if the volume currently selected is lower. If the selected volume is louder than the TA VOLUME the traffic message will be played somewhat louder.

End DSC programming/save changes:

- Press **DSC/OK**.

Overview of the DSC default settings

LOUDNESS	LEVEL 3
CHANGE ACCESSCODE	0000
IGNITION TIMER	00 min
AUXILIARY SOURCE	SOURCE OFF
VARIOCOLOUR	green
KEY TONE	VOLUME 0
BEEP	4
MUSIC/SPEECH	LEVEL 0
RAD. MONITOR	AUS
KEYCARD LED	LED ON
LANGUAGE	AUTOMATIC
LEARN MODE	MENU PLUS*
EXTENDED MENU	ON
CARD LIST	-
READ KEYCARD	-
LEARN CARD	-
USER MODE	STANDARD
SENSITIVITY	LO-LEVEL 1 DX-LEVEL 1
VOLUME FIX	LEVEL +20
TA VOLUME	LEVEL +30

* MENU PLUS = basic setting
The system will reset to MENU after having programmed the first SIM card.



ENGLISH

Telephone

Operating the telephone

General information

Using the Radiophone, you can make the same telephone calls as you can with a cellular phone.

Important: You must be located in an area serviced by the GSM radio network and have the access privileges provided by a valid SIM card. This SIM card must be inserted into the unit (refer to the section on “KeyCards and SIM cards” if necessary).

Emergency calls

The number to dial to place an emergency call in the GSM network anywhere in the world is 112.

You can place an emergency call by dialing this number even without inserting a SIM or KeyCard.

Please read the information in the section on “Using the telephone – GSM emergency calls”.

PIN code

(Personal Identification Number)

Normally, the SIM card will not operate the telephone until a personal identification number (PIN code) has been entered. This PIN code is included with the SIM card when you purchase it.

You can alter or even deactivate your PIN code. Refer to “Programming with DSC – PIN CODE”.

Inserting the SIM card/ entering your PIN code

- Switch the unit on.
With the card tongue protruding, insert the trained **SIM card into the slot with the contact surface facing up.** “ENTER PIN” will appear in the display.
- Enter the PIN code using the number keys, starting with the first digit.
- Press **OK** or **#**.

If the PIN code has been entered correctly, “CODE OK” will appear in the display followed by the menu which was used last.

If an incorrect PIN code has been entered, “WRONG PIN-CODE” will appear in the display followed by “ENTER PIN”.

If the PIN code is entered incorrectly three times in succession, it is necessary to use the PUK code (Personal Unblock code) to reactivate the card.

Reactivating the SIM card

The PUK code must be used to reactivate the SIM card.

The display shows “ENTER PUK”.

- Enter your code and press **OK** to confirm.
- Enter a new PIN code.

Important!

Make sure you make a note of the new PIN code!

- Confirm your entry by pressing **OK** and repeat the entry.

Making your first telephone call

When the telephone is ready to operate, an antenna symbol will appear in the display (must not flash).

A trained SIM card must be inserted in the unit correctly. If the equipment is not currently in the telephone mode

- press  briefly.
- Dial the number you wish to call using the number keys.

After you have entered the telephone number correctly,

- press  briefly.

The telephone will now place the call automatically.

To end your telephone call:

- Press  briefly.

GSM emergency calls

The **emergency number** in the GSM network is **112** anywhere in the world.

By dialling **112** you can place an emergency call, regardless of whether or not you have inserted a SIM or KeyCard.

Any barring codes entered in the system will not affect the **112** number. It is possible to place an emergency call as long as the antenna symbol is flashing and the signal is strong enough.

To place the call:

- Switch the set on, insert the KeyCard or SIM card. If you do not enter a card, you must complete the following operating steps within the next 4 seconds.
- Press .
- Dial **112** and press .

“Emergency” will appear in the display and the telephone will place the call.

Important!

Do not use the emergency call number unless there really is an emergency.

When placing an emergency call, be sure to supply all the necessary information as accurately as possible. Remember that your mobile telephone may be the only means of communication at the scene of an accident.

Do not hang up until you are told to do so.

Quick reference for using the telephone

① On/Off

The set must be switched on before it is possible to use the telephone.

Volume

Adjusts the volume while using the “hands-free” function.

Adjusts the TA volume while using the “hands-free” function.

Adjusts the volume of the current ring tone.

Remote control



The functions described under “Volume” can be altered by pressing **V- / V+**.

② / AUD

If this button is pressed while the telephone is in use, the microphone will be muted. This makes it possible to conduct a conversation in your vehicle while the party on the telephone is unable to listen.

③ SRC (Source)

Press **SRC** briefly: The telephone functions will end and the set will automatically switch back to the audio mode used last (radio, tape deck or optional CD changer).

The telephone mode has priority. It is not possible to switch to an audio mode if you are already talking on the telephone or trying to place a call.

If you press **SRC** briefly while the telephone is ringing: the caller will receive the information that the party he is calling is unavailable.

Press **SRC** for approx. 1 second: busy signal.

④ TA (Traffic Announcement = Priority for traffic announcements)

To switch off the priority for traffic announcements during a telephone call: Press **TA** during the telephone call.

⑤ TS / BND

To switch from handset operation to the hands-free function (uses the microphone and car speakers): Press **BND** and replace handset.

⑨ Selection buttons

To enter a telephone number: Press the corresponding keys briefly.

To use one-touch dialling to call one of the first nine phone book numbers stored in the set:

Press the corresponding key for approx. 2 seconds.

To use one-touch dialling to call one of the first nine phone book numbers stored on the SIM card:

Press *****, then press the corresponding key for approx. 2 seconds.

Enter the name. Please refer to the section on “How to enter a name/text”.



To answer a call: Press one of the buttons on the right side of the set.

⑩ AF /

Enters special characters.

Quick reference for using the telephone

11 **+ / 0**

Enters the telephone number.
To set the current foreign country code automatically, press **0** for longer than 1 second.

12 

Switches to the telephone mode, answers/ends telephone calls,
To start dialling:
Press  briefly.

To switch off the telephone, e.g. in areas where there is danger of explosion:
Press  for approx. 2 seconds.

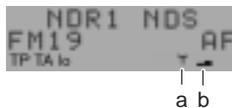
To switch back to the telephone mode:
Press  briefly.

13 **MIX/***

Enters special characters, such as blank spaces.
Activates speed-dialling for the numbers stored on the SIM card.

14 **Displays**

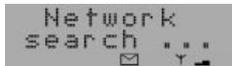
Radio menu



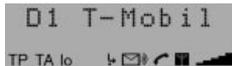
Enter PIN code



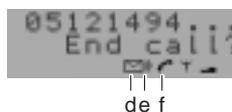
Network search ...



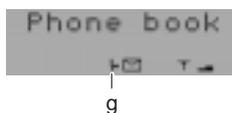
Basic telephone menu



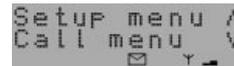
Subscriber is called



Telephone-book menu



Setup menu/Call menu



- a)  - Indicates connection to home network
-  - Indicates that the Radio-phone has logged into a different network.
- If the antenna symbol is flashing, the telephone user has not got access privileges to the current network available. Only emergency calls can be placed.
- b)  - Indicates signal strength, shows how good the connection to the radio network is
- c)  - Appears when the code is entered. One asterisk appears for each digit.
- d)  - Indicates that an SMS message has been stored
- e)  - Appears as an additional indication that a voice message has been received
- f)  - Indicates that a telephone call is being made or in the process of being placed
- g)  - Indicates that call forwarding has been activated

Quick reference for using the telephone

15 Anti-theft card protection system

In order to be able to operate the telephone, you must insert a trained SIM card first.

Using a KeyCard, you can place an emergency call only.

Using a trained SIM card, it is possible to operate all of the telephone's available functions, including the telephone mode.

The SIM card also performs the anti-theft functions.

16 Rocker switch



Scrolls through the speed-dial directory in the telephone book.

Selects the SMS entries.

Selects the menu items in the telephone book and DSC menu.

Moves the cursor to the next line when data is being entered.

Remote control:



To select a telephone number from the speed-dial list: Press **ME** first.



Makes adjustments for the menu items in the telephone book and the DSC menu.

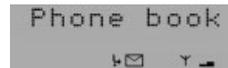
Displays SMS message.

Allows you to scroll through entries which require more space than available in the display.

Moves the cursor to the left and right when data is being entered.

17 ME

To activate the telephone-book menu: Press **ME** briefly.



Remote control:



To display the telephone-book menu in alphabetical order: Press **ME** briefly.

To display the telephone-book menu in the numerical order of

the entries: Press **ME** for approx. 2 seconds.

To quit this function press **CL** on the set.

18 CL (CLEAR)

Entry mode

To delete the last digit entered: Press **CL** briefly.

To delete the entry on display completely, press **CL** for approx. 1 second.

Menu prompting:

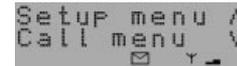
To return to next higher level: Press **CL** briefly.

To quit the menu: Press **CL** for longer than 1 second.

19 OK

To activate setup menu \wedge , to activate call menu \vee :

Press \wedge/\vee briefly.



To activate a menu item: Press **OK** briefly.

To store settings: Press **OK** briefly.

To store altered parameters: Press **OK** briefly.

Using the telephone

All of the telephone functions can be operated using a trained SIM card.

- With the card tongue protruding, insert the trained **SIM card** into the **slot with the contact surface facing up**.
- Switch the unit on.

If you have not yet trained any SIM cards, refer to the section on “Train or delete Key-Card/SIM card”.

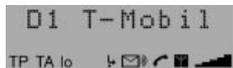
GSM network service area

To be able to use the telephone, you must be located in an area served by the GSM network. As soon as a network signal is received, the symbol indicating the signal strength  and an antenna symbol will appear in the display. If the signal is not strong enough your call may be disconnected. If the antenna symbol is flashing, it is possible to make emergency calls only. If the antenna is displayed on a dark background, you are located in an area serviced by a roaming network (may be subject to additional charges).

Switching to telephone mode

It is possible to switch to the telephone mode from any of the audio modes.

- Press .



The display will indicate the network and the network operator if a network signal is received. The antenna symbol will not flash.

Save telephone numbers and names

You can save up to 25 telephone numbers and names (entries) in the telephone memory bank.

The number of entries you can save on the SIM card depends on the type of card you use.

If you would like to save an entry, press the following keys one after the other:

- Press **ME** on the set for approx. 1 second.
- Press \wedge/\vee to choose the entry position, for example: “SIM card” or “Phone” and press **OK**.
- Enter the new telephone number and press **OK**.

- Use the selection buttons to enter the name. If necessary, refer to the section on “How to enter a name/text”. Press **OK** to confirm your entry.
- Enter the entry position and press **OK**.

If you do not enter a position, the entry will be stored at the next available position.

If there is a number already stored at the position entered, “Overwrite ?” will appear in the display.

Press **OK** to overwrite the entry (the previous entry will be deleted).

Add the next entry:

- Press **OK**.

Using the telephone

Dialling a telephone number

The telephone mode must be switched on.

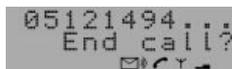
Always use the area code for the number you are dialling, even if it is a local number.



Manual

- Dial the number using the number keys.

The number you enter will appear in the display.



Correcting the number

To delete a digit:

- Select the digit you wish to correct using the rocker switch << / >> (digit will flash).
- Press **CL** briefly.

To delete a number:

- Press **CL** for approx. 1 second.

To start dialling/end call:

- Press .

Using speed-dialling . . .

You can recall stored telephone numbers with the corresponding name or the number of the entry.

The numbers which can be recalled in the telephone's memory bank range from 1 to 25, on the SIM card from 101 to a maximum 225.

It is possible to use one-touch dialling for the first nine telephone numbers in the basic telephone menu by pressing the corresponding number key directly.

. . . directly from the memory bank:

- Press the corresponding button (1 to 9) for approx. 2 sec. until you hear a beep.

The call will be placed automatically.

. . . directly from the SIM card memory bank:

- Press ***** and the corresponding button (1 to 9) one after the other for approx. 2 sec. until you hear a beep.

The call will be placed automatically.

. . . from the telephone book

- Press **ME**.
- Use \wedge/\vee to select "Find entry by name" or "Find entry by position".
- Confirm your selection by pressing **OK**.

If "Enter name" appears in the display

- use the selection buttons to enter up to the first three letters in the name.

If "Enter position" appears in the display

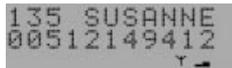
- use the selection buttons to enter the position number of the entry.
- Confirm your entry by pressing **OK**.

If you know the position number of the entry you can enter it immediately after pressing **ME** and confirm your selection by pressing **OK**.

The desired telephone number will appear in the display.

Using the telephone

If you want a different number to the one shown in the display, you can press \wedge/\vee to scroll through the entries in the telephone book.



To start dialling/end call:

- Press .

Redial function

Automatic

If the “Automatic redial” menu item in the setup menu is switched to “ON”, the number will be redialled automatically.

Refer to “Programming with DSC – Setup menu – Automatic redial”.

You can cancel the automatic redial by pressing the telephone key.

Manual

- Press .

The last telephone number entered will appear in the display.

To start dialling:

- Press .

The display will change in colour to indicate that the telephone has begun to dial the number or that an incoming call has been detected.

Answering/ending a call

If someone calls you, you will hear the telephone ring and “Answer?” will appear in the display. If you receive a call from a telephone supporting call line identification (e.g. ISDN), the caller’s telephone number will appear in the display.

If this number has been entered in the speed-dial directory, the caller’s name will appear.

To answer a call:

- Press one of the buttons on the right-hand side of the set.

To end a call:

- Press  or **CL**.

Notepad

During a telephone call, you can use the keypad to note down a telephone number (notepad).

After finishing your current call, you can put a call through to this telephone number and save the number in the memory.

Save telephone numbers from the notepad

- Press **ME** on the radio for approx. one second.
- Press \wedge/\vee to choose the entry position, for example: “SIM card” or “Phone” and press **OK**. Now you can check and correct the number.
- Press **OK** and enter the name using the selection buttons. For more information please refer to the section on “How to enter a name/text”. Press **OK** to confirm your entry.
- Enter the position (memory) and press **OK**.

If you do not indicate a memory position, the number will be saved at the next available position.

Using the telephone

If there is already a number saved at the memory position indicated, "Overwrite?" will appear in the display.

Press **OK** to overwrite the existing entry (this entry will be deleted).

Place a call

If the number you wish to call appears in the display

- press .

The call will be put through automatically.

Call waiting (2nd caller)

While using the telephone you can receive a message that a second party is trying to call you.

If you would like to take advantage of "call waiting", you may have to order this service from your network operator and activate it.

How it works

You are still talking on the telephone to the first party. You hear the call waiting signal.

To refuse the call:

- Press **CL**.

To answer the waiting call:

- Press **OK**.

The first party will be put on hold (cannot join in on the second call).

Also refer to broker's call/hold or conference calls.

Broker's call/hold

During a telephone call, you can make or receive a second call. The active call will be placed on hold automatically.

During a broker's call, you are able to talk to only one of these two parties at any one time, while the second party is on hold.

Activating the hold function

The first call is currently active.

- Enter the second telephone number and start to dial by pressing .

The first caller will be placed on hold and will hear music.

As soon as the second party answers, the second call will be active.

Broker's call

Switches between the first and second call

- Press **ME**.

While you are talking on the telephone to one party, it is also possible to answer another call. You will hear the call waiting signal.

To refuse the call:

- Press **CL**.

To answer a call from a third party:

- Press **OK**.

This will end the call with the party to whom you are currently talking.

To end an active call:

- Press **CL** or .

To end both calls at once:

- Press **CL** for longer than 1 second.

Conference calls

During a multi-party call, you can talk to several parties at the same time.

While talking to one party you can place a call to a second party.

Setting up a conference call

You are already talking to the first party. A second party is waiting on hold.

- Press **OK** to activate the conference call. Now all three parties can talk to each other on the same line.

While you are talking on the telephone to these two parties, it is also possible to answer a call from another party. You will hear the call waiting signal.

To refuse the call:

- Press **CL**.

To answer a call from another party:

- Press **OK**.
The previous parties will be put on hold.

Press **ME** to switch back and forth between the conference call and the single caller.

To end an active call:

- Press **CL** or .

To end all calls at once:

- Press **CL** for longer than 1 second.

Making telephone calls using the handset (special accessory)

During normal operation, you can make telephone calls using the microphone and car speakers (hands-free function). You can also make calls using a handset (accessory).

You can answer/end calls by removing/replacing the handset.

Switching from hands-free operation to the handset:

- Remove the handset from its cradle.

To switch from handset operation to the hands-free function:

- Press **BND** and replace the handset on its cradle.

Warning:

There is a relatively strong magnet built into the handset.

Keep away anything which will react to magnetic influence, e.g. diskettes, bank cards, etc. Important data may be deleted.

International calls

The services provided by your network operator allow you to place mobile phone calls in your own country.

Using the international GSM standard it is possible to place phone calls to parties in many countries of the world (either mobile or stationary).

In order to do this, the network operators concerned must have made a roaming agreement. Your network operator must also activate international roaming for your SIM card.

Your network operator can provide you with a currently valid list of the network operators (network code and name) and the different rates which apply.

Note:

If you want to make international calls, be sure to contact your network operator well ahead of time.

What to do before leaving for a foreign country

1. Have your network operator activate your SIM card for roaming.
2. Take a look at the list of networks. In many areas you can choose from

Using the telephone

among several different network operators.

You need the network code and the network name.

The foreign network operators must be registered. Refer to Programming with DSC – Calls

“Network selection” in the directions for using the telephone.

3. Activate call forwarding from the stationary telephone (at home, at the office) to the Radiophone, if applicable.

How to place telephone calls in foreign countries

Dial the country access code for the country you are calling, the city area code without the first “0” and then the telephone number. You can replace the first two digits of the country access code with “+” (press “0” for approx. 1 second).

Example:

Country access

code:	0049	Germany
City area code:	05121	Hildesheim
Teleph. number:	49	Blaupunkt
You enter:	+49512149 	

Tip:

Enter the country access code for all of the telephone numbers you save in the memory.

How to receive calls

Callers from your home country merely dial the usual number for your mobile phone.

Callers who are not located in your home country dial the country access code for your home country, even if you are currently located in another country.

How to place calls to a stationary telephone in the host country

Dial the city area code and the party’s telephone number.

You needn’t dial the country access code because your Radiophone has registered in the foreign network.

Phone book menu

The phone book menu can be used to store, alter, delete and easily retrieve stored telephone numbers.

The entries are stored in the telephone memory and/or on the SIM card and can be used for speed-dialling.

The telephone can store up to 25 entries.

The number of entries which can be stored on the SIM card depend on the type of card used.

Access the phone book menu as follows:

- Press **ME** on the set.

“Phone book” will appear in the display.

Press **^**/**v** to select the menu items which are described in the following.

- Select the function and press **OK**.

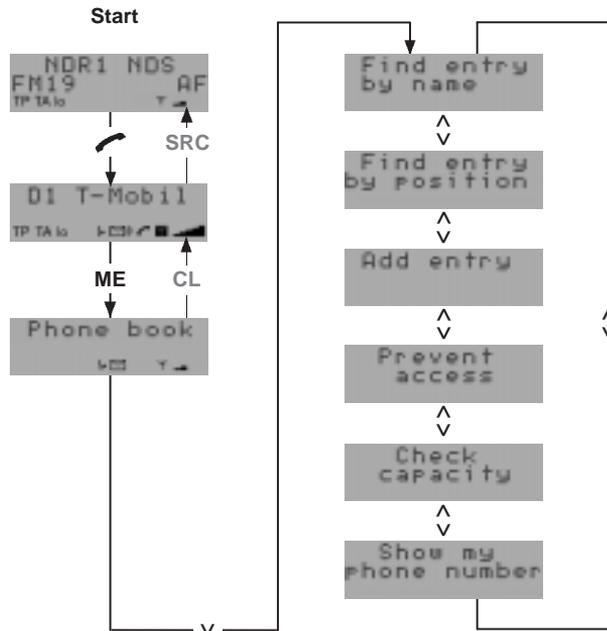
Press **CL** to exit the current menu item and return to the phone book menu.

Press **CL** once again to display the basic telephone menu.

If you press **ME** briefly on the remote control, you will access an alphabetically sorted speed-dial directory of telephone numbers directly.

If you press **ME** for somewhat longer on the remote control, you will access the speed-dial directory sorted numerically according to the entry position.

Phone Book Menu



Return to phone book
(from any menu item):
Press **CL**

How to enter a name/text

Using the keypad you can enter names or texts for various menu items.

You cannot make an entry unless a specific request that you do so appears in the display.

Names can have a maximum of 16 and texts 160 characters.

Start the entry

If "Name?" appears in the display,

- press the key for the first character as often as necessary.

For a new name enter all of the letters for the name.

Entering letters/characters

Example "O" = press key 6 three times.

The keys are sequence keys, i.e. press the keys repeatedly to call up the letters allocated to this key.

You can use these keys to enter the following characters:

1	_ (blank)	.	,	!	?	:	'	"	()	%	&	1
2	A	B	C	Ä	à	2							
3	D	E	F	É	3								
4	G	H	I	ì	4								
5	J	K	L	5									
6	M	N	O	Ñ	ö	ò	6						
7	P	Q	R	S	ß	7							
8	T	U	V	ü	ù	8							
9	W	X	Y	Z	9								
0	+	-	x	*	/	=	<	>	#	0			

Capital and small letters

You can choose between capital and small letters.

To switch:

- Press the key for the letter you wish to select for approx. 1 second.

All of the following letters will appear in the format selected.

Switch back if desired.

Moving the cursor in the entry text box

If you press different keys to enter the letters one after the other, the flashing cursor will automatically move forward .

If you have to press the same key to enter different letters you must first move the cursor by pressing >>.

To make any necessary corrections move the cursor by pressing << / >>.

Inserting characters

You can insert characters as follows:

- Select the position for the new letter by pressing << / >>. The character will be inserted in front of the flashing cursor.
- Press the key for the character you wish to insert.

Deleting characters

You can delete individual characters or a complete entry.

To delete characters:

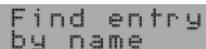
- Press << / >> to select the character you wish to delete (it will flash).
- Press **CL** briefly.

To delete an entry:

- Press **CL** for approx. 1 second.

Phone book menu

Finding an entry by name



Find entry
by name

Selecting an entry:

- Press \wedge/\vee to select “Find entry by name” and press **OK**.
- Enter the first three letters of the name and press **OK**.

A name with these first three letters or the closest name alphabetically in the list will appear in the display with the corresponding telephone number.

Important: The memory bank must already contain at least one entry.

If necessary, press \wedge/\vee to scroll through the list of entries forwards/backwards until you have found the name (and telephone number). Press \ll / \gg to view all of the data stored for the entry.

To dial the telephone number automatically:

- Press .

Selecting an entry by remote control:



Using the remote control you can activate the alphabetically or numerically sorted speed-dial directory in the telephone book directly.

For the alphabetically sorted list:

- Press **ME** briefly.

For the numerically sorted list:

- Press **ME** for somewhat longer.

To scroll through the lists:

- Press \wedge/\vee .

To dial the telephone number automatically:

- Press .

Changing, deleting, moving or copying an entry

- Find the name/entry as described above.
- Press **OK**, “Change?” will appear in the display.

- Select the function you wish to use by pressing \wedge/\vee and the press **OK**.

To change:

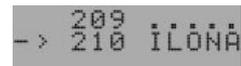
You can alter the name and telephone number one after the other.

To delete:

- Press **OK** to confirm, **CL** to abort.

To move:

You can move the entries to a different position in the list.



209
-> 210 ILONA

The arrow indicates the current position.

- Press \wedge/\vee to select the new position and press **OK**.

To copy:

You can copy entries from the SIM card, for example, into the telephone memory bank.

The arrow indicates the current position, e.g. 210.

- Press \wedge/\vee to select the new position, e.g. 023, and press **OK**.

Phone book menu

Show my phone number

```
Show my  
phone number
```

You can display your own telephone number if it has been stored.

- Press \wedge/\vee to select “Show my phone number” and press **OK**.

If more than one number appears, press \wedge/\vee to select the correct one.

Prevent access

```
Prevent  
access
```

You can prevent unauthorised persons from accessing the telephone memory bank. If desired

- Press \wedge/\vee to select “Prevent access” and press **OK**.
- Press \wedge/\vee to choose among the following settings:

“No memory restriction”

- All access restrictions are deactivated.

“Lock SIM card”

- It is not possible to access the telephone numbers stored on the SIM card.

“Lock phone”

- It is not possible to access the telephone numbers stored in the telephone memory bank.

“No access possible”

- It is not possible to access the telephone numbers stored in the telephone memory bank or on the SIM card. It is not possible to store new telephone numbers.

- Confirm your selection by pressing **OK**.
- Enter the access code and press **OK**.
- Press \ll / \gg to select on or off and press **OK**.

```
Lock ->  
turned off?
```

Check capacity

```
Check  
capacity
```

Use this function to determine how much storage capacity is available on the SIM card and in the telephone memory bank.

- Press \wedge/\vee to select “Check capacity” and press **OK**.
- Press \wedge/\vee to select “Check SIM capacity” or “Check phone capacity” and press **OK**.

The number of free entries available will appear in the display.

If there are no entries available, “memory free” will appear in the display.

Phone book menu

Add entry

Add entry

You can store up to 25 telephone numbers and names in the telephone memory bank.

The number of entries you can store on the SIM card depends on the type of card you use.

If you would like to add or alter (overwrite) an entry, press the following keys one after the other:

- Press \wedge/\vee to select “Add entry” and press **OK**.
- Press \wedge/\vee to choose the entry position, for example: “SIM card 101-255” or “Phone book 1-25” and press **OK**.
- Enter the new telephone number and press **OK**.
- Use the selection buttons to enter the name and press **OK**.
- Enter the position number and press **OK**.

If you do not enter a position in the memory bank, the next available position will be selected.

If there is a number already stored at the position entered, “Overwrite?” will appear in the display.

Press **OK** to overwrite the entry (the previous entry will be deleted).

Add the next entry:

- Press **OK**.

Finding an entry by position

Find entry
by position

You can use the position number to find, alter, delete, move or copy the entry in the telephone book.

Selecting an entry:

- Press \wedge/\vee to select “Find entry by position” and press **OK**. “Enter position!” will appear in the display.
- Use the selection buttons to enter the position number and press **OK**.

023ILONA
01717386000

The position number, the name entered and the telephone number will appear in the display.

To dial the telephone number automatically:

- Press .

Altering, deleting, moving or copying the entry:

If necessary, proceed as described in the section on “Finding an entry by name”.

Programming with DSC Telephone

Thanks to DSC (**D**irect **S**oftware **C**ontrol), it is possible to adapt several of the Radiophone settings and functions to your own personal needs and to store these alterations.

The Radiophone has been set at the factory.

In the following you will find an overview of the default settings, so that you can reset the unit to these basic settings if necessary.

If you wish to alter the programming:

- First select the operating mode, e.g. telephone mode, if you would like to alter the volume for hands-free operation.

Access the DSC menu

- by pressing **DSC/OK** briefly.

Select:

Use the rocker switch \wedge/\vee to select the menu item you wish to alter and press **OK** to confirm your selection.

Alter:

Press **<< / >>** to alter the setting shown in the display and confirm your change by pressing **OK**.

Cancel:

- Press **CL**, the altered setting will not be stored.

Store/confirm:

- Press **OK**.

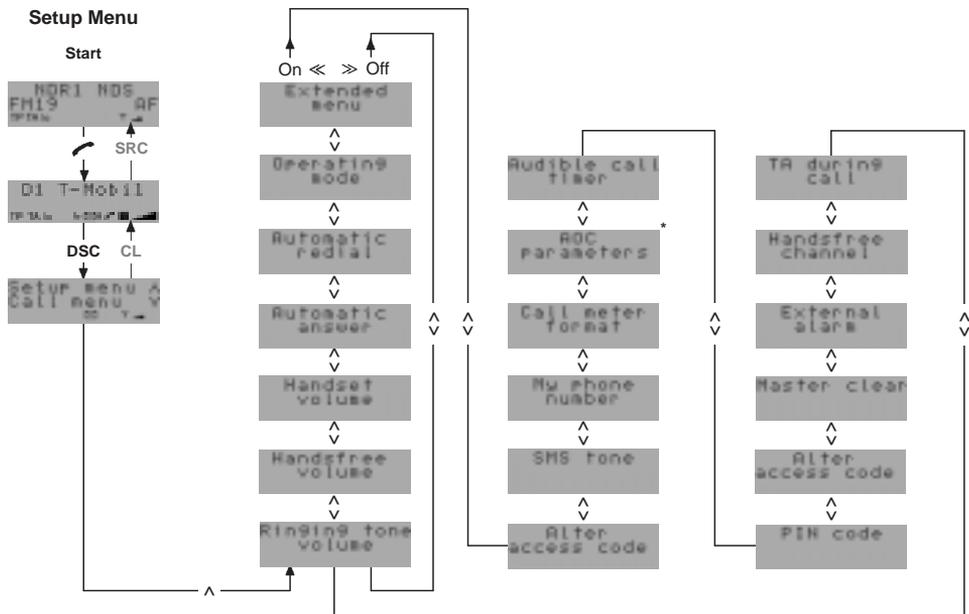
End DSC:

- Press **CL**.

Programming with DSC Telephone – Setup menu

Programming in the setup menu

- Select the setup menu by pressing \wedge .



Return to setup menu/call menu
(from any menu item):
Press CL

* Alternately: **Set charge Parameters**

Programming with DSC Telephone – Setup menu

Ringing tone volume

Ringing tone
volume

Press <</>> to adjust the volume of the ringing tone from between 0 and 9. 0 = off. If the automatic answer function is switched on, the volume cannot be set to "0".

Hands-free volume

Handsfree
volume

Press <</>> to adjust the volume of the incoming call from 0 to 63 over the car speakers.

Handset volume

Handset
volume

This menu item will not appear unless a Blaupunkt handset has been connected to the system.

Press <</>> to adjust the volume of the handset to one of three levels (low, medium, high), remove the handset from the cradle first.

Automatic answer

Automatic
answer

The telephone will automatically answer incoming calls if you press <</>> to select "On" for this menu item.

The call will be set to hands-free operation automatically.

In this case, do not set the **ringing tone volume** to "0".

Automatic redial

Automatic
redial

If the busy signal is received, an outgoing call will be redialled automatically if you press <</>> to select "On" for this menu item.

You can stop the automatic redial by pressing the telephone button.

Off – redial is switched off

On – redial is switched on.

The number of times the telephone will attempt to redial depends on the network used.

Operating mode

Operating
mode

If this menu item is selected, you will be required to enter the access code after pressing **OK**.

Then select the operating mode by pressing <</>>:

Standard – all operating modes

Radio only – no telephone, all other operating modes

Phone only – telephone mode only

Extended menu

EXTENDED
MENU

Use this function to remove the following menu items from the display in the setup menu by pressing <</>>. These items are seldom used.

This makes the setup menu more clear.

Off – menu items removed from display

On – all of the menu items are available.

Ringing tone

Ringing tone

You can select the ringing tone by pressing << / >> to choose from “Standard, Smooth, Rising (ringing tone gets louder with each ring), Off”.

“Off” corresponds to “Ringing tone volume 0”.

SMS tone

SMS tone

If a message has been received by SMS or voice mail, the equipment can be set to emit a beep at a preset beep volume.

- Off – beep is emitted after a message has been received
- On – beep is switched off.

My phone number

My phone number

Here you can enter a maximum of up to three of your own telephone numbers and the telephone number for your mailbox.

The mailbox number is required to be able to call it directly from the call menu.

After you press **OK** “Number 1” will appear in the display.

Press \wedge / \vee to select the position for your own phone number.

Press **OK** and enter your own phone number and press **OK** again. The display shows “Number stored”.

Press \wedge / \vee to select the next position, etc.

Call meter format

Call meter format

You can select whether the call charges or the call time is displayed during a call.

AOC parameters (Advice of Charge)

AOC parameters

This function depends on the features the SIM card includes.

If AOC is not supported by the card, “Set charge parameters” will appear as a menu item in its place.

The charge rates are determined by the network operator.

You can use this menu item to set the charges and a credit balance. As soon as the credit balance has been exhausted, it will not be possible to use the telephone until the credit balance is replenished by an authorised person.

If your network operator does not support AOC, the time interval will be set to one minute. The value selected will be used for making calculations. The credit function is deactivated.

If this menu item is selected, you will be required to enter the “PIN2 code” or the “Access code” after pressing **OK**.

Programming with DSC Telephone – Setup menu

After this, you can enter a charge per unit and a credit balance.

If a charge or credit balance has already been entered, the last character will flash in the display.

Use the numbers keys to alter the amount and the type of currency.

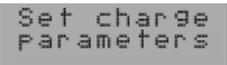
Press **CL** to quit the menu item.

The alteration will be transferred to the SIM card.

Note:

If “0.00” appears in the display, the credit balance function is deactivated.

Set charge parameters



If you cannot use AOC, you can set an internal charge counter. You can enter the charge per minute.

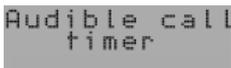
- Press **OK**.
- Enter the access code.
- Press **OK**.
- Select home or roaming network charge by pressing \wedge/\vee and press **OK**.

- Enter the charge and type of currency with the numbers keys.
- Confirm your entry by pressing **OK**.

Note on AOC/charge parameters

Because the charges per time unit may vary, the charge meter can be used only as an approximate point of reference.

Audible call timer



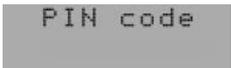
You can set an audible beep which is emitted after a preset call time has elapsed.

Press \ll / \gg to switch the beep on or off.

You can use the selection buttons to alter the setting from between 15 and 300 seconds. The cursor will flash at the last digit of the value entered.

After you have pressed **OK**, “Audible call timer” will appear in the display. You can select the next menu item.

PIN code



Switches on/off and alters the PIN code.

Press \ll / \gg to switch between On, Alter, Off. An arrow will indicate the setting selected last.

If you wish to alter the setting, press **OK**. Enter the PIN code and press **OK** to confirm your entry.

On – Each time the SIM card is inserted, the PIN code must be entered.

IMPORTANT!

If the PIN code is entered incorrectly three times in succession, the SIM card will be deactivated. It can only be reactivated after the master PIN (PUK) has been entered. Your service provider has more detailed information.

Alter – You must enter the currently valid PIN code, then enter the new PIN code (twice)

Off – The set can be operated without a PIN code.

The “Off” menu item cannot be selected unless the SIM card allows this.

Alter access code

Alter
access code

Use the access code to gain access to the important menu items.

This code is set to “0000” at the factory.

Be sure to make a note of the new code if you change it.

Enter the old code (in this case “0000”) and press **OK**.

Enter the new code, press **OK**. Enter the new code again and press **OK** again.

Master clear

Master clear

Using this menu item you can delete the telephone settings.

You can also delete the SIM card settings.

Please be careful when using this function!

The following settings will be deleted:

- a) Phone
 - Speed-dial directory
 - Call charges setting
 - Call counter
- b) SIM card
 - Speed-dial directory
 - Redial memory
 - Own phone numbers
 - Mailbox numbers
 - SMS messages
 - AOC
 - Fixed telephone numbers
 - Preferred networks
 - Preferred language.

If this menu item is selected, you will be required to enter the access code after pressing **OK**. Enter the access code, press **OK**. Then select “Card” or “Phone” by pressing **<< / >>**.

“Clear phone memory?” or “Clear card?” will appear in the display.

Press **CL** if you want to cancel the process.

Do not press **OK** unless you want to do a “Master clear”, “cleared” will appear in the display.

The process has been completed when “Master clear” appears in the display.

External alarm

External
alarm

If the ignition is switched off, you can have an incoming call signalled by the car’s horn or flashing lights in addition to the ringing in the car.

For this to operate, you must first

press **<< / >>** to switch the function “External alarm” to ON in the DSC menu.

Switch off the unit with the ignition and switch it on again by pressing the ON button.

If an incoming call is detected, the external alarm will sound five times in succession.

To protect the vehicle’s battery power, the unit will switch off automatically after one hour.

If necessary you can switch on the external alarm again for one hour by pressing the ON button.

Refer to the installation instructions for connections and accessories.

Programming with DSC Telephone – Setup menu

Important!

It is against the law to activate the audible external alarm in Germany.

Find out what the regulations are regarding this in your own country.

Hands-free channel



Hands-free operation is possible on all four channels.

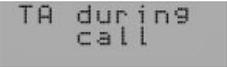
If a traffic announcement is broadcast (TA on), you can select which channel (left/right) will remain active for hands-free operation.

Press **OK** to view the setting already selected.

Make any alterations by pressing **<< / >>**, press **OK**.

Quit this menu item by pressing **CL**.

TA during call



It is possible to have a traffic announcement (TA) broadcast while you are using the telephone.

Press **OK** to view the setting already selected.

Off – TA is switched off during a call

On – TA is switched on.

Select the setting desired by pressing **<< / >>**.

Confirm by pressing **OK**.

Quit the menu

Press **CL** to return to the previous menu. If necessary,

- press **CL** as often as required.

Overview of the basic factory settings in the set-up menu

Ring volume	4
Hands-free volume	35
Handset volume	Medium
Automatic answer	Off
Automatic redial	Off
Operating mode	Standard
Extended menu	On
Ring signal	Standard
Message signal	On
Call meter	Time display
Acoustic check	Off
Alter access code	0000
External alarm	Off
Hands-free channel	Left
TA during call	On

Programming with DSC Telephone – Call menu

Programming in the Call Menu

If you would like to alter the programming, select the telephone mode first:

- Press  and access the DSC menu by
- pressing **DSC/OK** briefly.
- Select the call menu by pressing **V**.

Now you can proceed with your alterations.

Select:

Use the rocker switch \wedge/\vee to select the menu item you wish to alter and confirm your selection by pressing **OK**.

Alter:

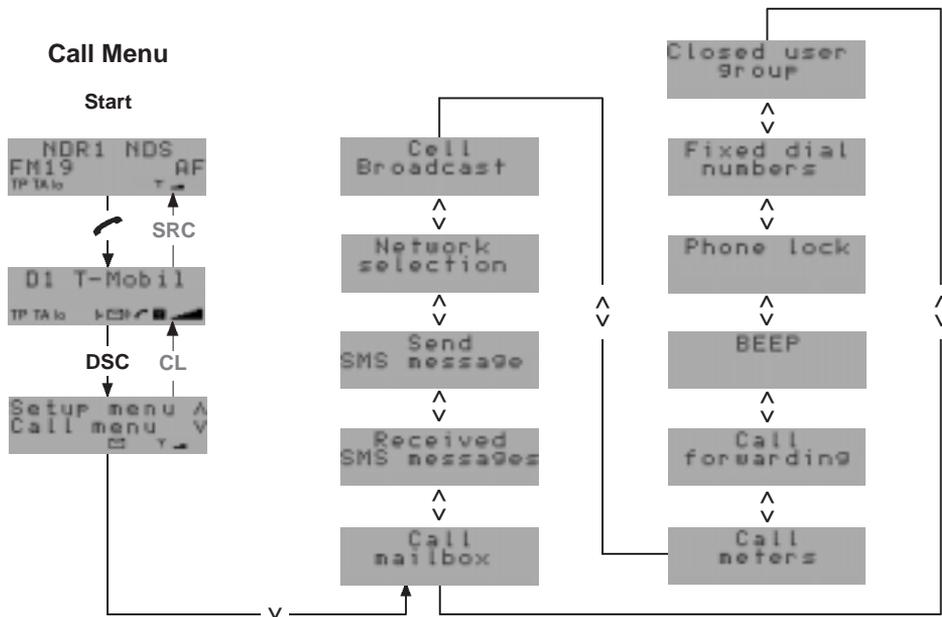
Press **<< / >>** to alter the setting shown in the display and confirm by pressing **OK**.

Cancel:

- Press **CL**, the new setting will not be stored.

Store/confirm:

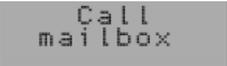
- Press **OK**.



To retrieve the messages in your mailbox:
Select "Call mailbox" and press **CL**

Programming with DSC Telephone – Call menu

Call mailbox



Call
mailbox

The mailbox (also known as the mobile box) is comparable to an answering machine. You can also enter your own message text here. The texts stored in the mailbox are sorted into new and old messages and can be retrieved at any time.

Before you set up your mailbox, contact your network operator/service provider to obtain the telephone number and other mailbox information. You can also call your mailbox from a regular telephone.

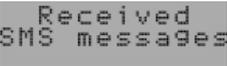
To make the best use of your mailbox, it is a good idea to activate call forwarding to your mailbox telephone number in the call menu. If no number has been stored, you will be requested to enter one when you activate the mailbox function.

To retrieve your messages:

- Select “Call mailbox” and press **OK**.

The unit will call the mailbox automatically. You will receive all of the necessary information on how to proceed.

Received SMS messages



Received
SMS messages

You can receive individual text messages of up to 160 characters in length which other subscribers send to your telephone number via SMS.

You can read and file the messages you receive in the menu “Received SMS messages”.

When a message is received, the telephone will try to store it on the SIM card. As soon as the storage capacity on the SIM card has been exhausted, the symbol will flash in the display.

One or more messages must be deleted before new messages can be received.

Selecting the message

- Select “Received SMS messages” and press **OK**.

The display will indicate the number of “New” and “Old” messages.

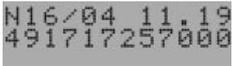
“Old” means that the message has been read and stored.

- Press **OK**.

Press **^**/**v** to select the messages.

An “N” as the first letter means that the message is new.

If nothing appears in this position, then the message has been read and stored.



N16/04 11.19
491717257000

The individual messages are sorted according to date and time. The telephone number and the name of the caller will appear in the second line.

Reading messages

- Press **OK**, you can display the message by pressing **<<** / **>>**.

Clearing messages

To clear a message:

- Press **CL**.

“Clear message?” will appear in the display.

Press **OK** to clear the message, press **CL** to abort this function.

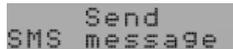
Calling the sender or another telephone

If you would like to call whoever sent the message,

- press  while the message is on display.

The telephone will automatically call the corresponding number. If the message contains a telephone number in “quotation marks”, the call will be made to that number. If there are several different telephone numbers in quotation marks, the call will be made to the first one.

Sending SMS messages



Using this menu item you can send messages to other subscribers and set the corresponding parameters.

- Press \wedge/\vee to select “Send SMS message” and press **OK**.
- Press \wedge/\vee to select the desired function and press **OK**.

“SMS parameters”

- Press \wedge/\vee to select the desired function and press **OK**.

“Valid”:

Here you can determine how long the network operator should continue trying to send the message. The default setting is 1 day. Use the numbers keys to select from 1 to 7.

After making your selection

- press **OK**.

“Service no.”:

The message is sent to a service number provided by the network operator and forwarded from there to the recipient. Contact your network operator to receive the service number and enter it here.



“New SMS message”

- Press **OK**, “Enter text” will appear in the display.

You can now enter a text of up to 160 characters. If necessary, please refer to the section on “How to enter a name/text”.

- Press **OK** after you have entered the text.

“Call number” will appear in the display.

- Enter the recipient’s telephone number and press **OK**.

“Store?” will appear in the display.

- Press \wedge/\vee to select “Send?”, “Delete?” or “Store?” and press **OK**.

Sending “Stored SMS messages”

- Press \wedge/\vee to select the desired function and press **OK**.

“My short messages”

The beginning of the message will appear in the first line of the display, the telephone number of the recipient in the second line.

“Received messages”

The display will indicate the date, time and sender.

Programming with DSC Telephone – Call menu

To select, alter, send message.

Press \wedge/\vee to select a message. After you press **OK**, two lines of the message will appear in the display.

Press \ll / \gg to read the text and make any alterations if required.

- Press **OK**.

“Store?” will appear in the display.

- Press \wedge/\vee to select “Send?”, “Delete?” or “Store?” and press **OK**.

Network selection

```
Network  
selection
```

In areas which are served by more than one network (e.g. in foreign countries), it is possible to select the network you wish to use.

- Press \wedge/\vee to select “Network selection” and press **OK**.
- Press \wedge/\vee to select from the available networks and press **OK**.

“Available networks”

- After a short waiting period, the available networks will appear in the display.

```
01* 262-01  
D1 T-Mobil
```

The first line indicates the position number, ***** and network operator code. The second line displays the name of the network operator.

***** means that the SIM card currently in use will operate the telephone to make calls in this network.

Press \wedge/\vee to select other networks and press **OK** to confirm your selection. “Register now?” will appear in the display. Abort by pressing **CL**, confirm by pressing **OK**.

“Search method”

- It is possible to select an automatic or manual search (for network selection).

Automatic search:

The home network is always the first choice. If you are located in an area which is not served by your home network, the telephone will automatically register with the next available network. The networks will be selected according to their priority in the networks list.

Manual search:

The sorted list of network operators will be displayed in this mode. Switch to the search mode by pressing \ll / \gg , confirm by pressing **OK**. An arrow will indicate the current condition.

The antenna symbol indicates which network the telephone is registered in.

✎ – Connected to home network

✎ – Connected to a different network

If the antenna symbol is flashing, you do not have access privileges to the network currently connected. You can place emergency calls only.

“Preferred networks”

- Use this menu item to alter the priority in the list of preferred network operators.
 - Press \wedge/\vee to make your selection and press **OK**:

“Add network to list”:

- known networks
Press \wedge/\vee to select the desired network from the list of network operators, press **OK**. Give the network most important to you priority **1**. Select other networks of interest to you and determine their sequence.
- new network
You can add a new network operator to your preferred list (you will require the operator’s network code).

“Show list of networks”:

You can display the list of networks by pressing \wedge/\vee .
Quit by pressing **OK**.

“Delete entry”:

You can delete any network operators you do not require from the list.

- Confirm your selection (“Delete entry”) by pressing **OK**.
The display will indicate the position in the priority list, the network code and the name of the operator.
- Press \wedge/\vee to select the network operator you wish to delete and press **OK**.

“Delete?” will appear in the display.

Press **OK** to delete the network operator from the list, press **CL** to cancel the process.

“Move entry”:

You can move any of the entries in the priority list (new sequence).

- Confirm your selection (“Move entry”) by pressing **OK**.

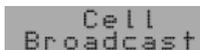
The display will indicate the position in the priority list, the network code and the name of the operator. If you want to move an entry to another position,

- press **OK**.

“Priority?” will appear in the display.

- Now enter the number of the new position by pressing the corresponding selection buttons and press **OK**.

Cell Broadcast



Cell Broadcast is a short message service which operates in numbered “channels”.

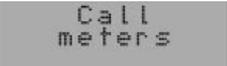
The channels transmit different special messages.

Request more detailed information and a list of the available channels from your network operator.

If Broadcast “On” has been selected, the number of the channel on which you expect to receive information must be entered after you have pressed **OK**.

Programming with DSC Telephone – Call menu

Call meters



Call
meters

The telephone is equipped with an internal meter which allows you to display the charges or call time for individual calls and the number of total calls.

The default setting displays the call time.

- Press \wedge/\vee to select “Call meters” and press **OK**.
- Press \wedge/\vee to make your selection and press **OK**:

“Show meter - last call”

- Time or charge for the last call

“Show meter - all calls”

- Total call time or charges

“Show meter - roam calls”

- Time or charges for all calls made in a roaming network

“Show meter - home calls”

- Time or charges for all calls made in the home network

“Reset call meters”

- Sets time or charges to zero

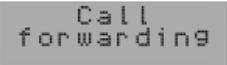
“Show meter during call”

- Switch display of call meter during calls on/off

Note

If the SIM card supports AOC, the menu items for “Show meter - roam calls” and “Show meter - home calls” will not appear.

Call forwarding



Call
forwarding

You can forward incoming calls to another number. For this to operate the call forwarding function must be activated.

If necessary,

- press \wedge/\vee to select “Call forwarding” and press **OK**.
- Press \wedge/\vee to make your selection and press **OK**:

“Forward all calls”

- Every call will be forwarded immediately.

“Forward, if busy”

- The call will not be forwarded unless the line is busy.

“Forward, if no answer”

- The call will be forwarded if you do not answer it.

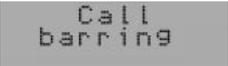
“Forward, if unreachable”

- The call will be forwarded if the Radiophone is switched off or you are not located in an area serviced by GSM.

“Clear all”

- All call forwarding functions will be deactivated.

Call barring



Call
barring

You can block incoming/outgoing calls or forward them to another number. Select the type of call forwarding you wish to use in the menu.

- Press \wedge/\vee to select “Call barring” and press **OK**.
- Press \wedge/\vee to make your selection from “Bar outgoing calls”, “Bar incoming calls” and “Change password” and press **OK**.

Bar outgoing calls:

- Press \wedge/\vee to make your selection from the menu items and press **OK**:

"International"

- No calls can be made outside of the country.

"Internation. except home"

- No calls can be made outside of the country.

If you are in a foreign country, you can place calls to your home country.

"all calls"

- You cannot make any calls. It is still possible to make emergency calls.

"no barring"

- All restrictions on outgoing calls have been removed.

Bar incoming calls:

- Press \wedge/\vee to make your selection from the menu items and press **OK**:

"By roaming"

- If you are in a foreign country, you cannot receive any calls.

"Bar all"

- You cannot receive any calls.

"No barring"

- All restrictions on incoming calls have been removed.

Change password:

- You can alter the password required to operate network barring.

Phone lock



Phone lock

You can prevent your telephone from being used by unauthorised persons. If necessary,

- Press \wedge/\vee to select "Phone lock" and press **OK**.
- Press \wedge/\vee to make your selection from the menu items:

"No restriction"

- All restrictions are removed.

"Dialling not possible"

- Only emergency calls can be made.

"One-touch dial only"

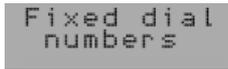
- You can only call the one-touch dialling telephone numbers stored on keys 1 to 9 and the SIM card.

"Speed/touch dial only"

- All of the telephone numbers stored (in the phone and on the SIM card) can be dialled.

- Confirm your selection by pressing **OK**.
- Enter your access code and press **OK**.
- Press \ll / \gg to switch the function on/off and press **OK**.

Fixed dial numbers



Fixed dial numbers

This menu item will not appear unless the SIM card supports it.

You can limit the use of the telephone to certain numbers (fixed phone numbers). You can store these on the SIM card.

- Press \wedge/\vee to select "Fixed dial numbers" and press **OK**.
- Press \wedge/\vee to make your selection from the menu items:

“Edit list fix dial no.”

- The list of telephone numbers entered will be displayed.

“New entry fix dial no.”

- You can add a new phone number to the fixed numbers list.

“Activated”

- Switch this function on/off.

Closed user group

```
Closed user  
group
```

This is a special feature which you can order from your network operator.

Using it, it is possible to limit the use of the telephone to a certain group of users.

Important!

Do not alter any of these settings unless this function has been activated by your network operator. Otherwise, this could cause malfunctioning.

Overview of the basic factory settings in the call menu

Send message

Service number ---

Call meter

Last call 0,00 DM

Display during call On

Telephone block

No restrictions

Glossary

Access code

Barred functions can be operated after the access code is entered.

AOC parameter - Advice of Charge

List of charges in which a charge per unit and a credit balance can be entered.

Broker's call

It is possible to make a second call without ending the first one. You can then switch from one call to the other.

You can also answer a call from a second party without ending the call to the first.

Cell Broadcast

Cell Broadcast is a short message service which operates in numbered "channels".

The channels transmit different special messages.

Request more detailed information and a list of the available channels from your network operator.

GSM network - Global System for Mobile Communication

European cellular telephone standard available world-wide.

IMEI - International Mobile Equipment Identity

International identity for mobile equipment. The IMEI code entered at the factory includes the serial number, manufacturer and country code. You can find this code in the car radio pass.

Mailbox

Electronic mailbox provided by network operators for spoken messages. The mailbox can be compared to an answering machine.

MUTE

Switches audio off

PIN code - Personal Identification Number PIN 1

Protects the SIM card from being used by unauthorised persons. You must enter the PIN code each time the card is inserted into the unit.

PIN 2

Code for special functions.

If you are entitled to use special functions with your card, you need a PIN 2 code. Both codes are supplied with the SIM card and can be altered if desired.

PUK - Personal unblock code

Eight-digit unblock code which can reactivate the SIM card. This becomes necessary if the PIN code for the SIM card has been entered incorrectly three times.

Roaming

Making telephone calls in foreign countries with your own telephone or your own SIM card using a different network operator.

Scrollen

Moves you through a directory.

SIM card - Subscriber Identification Module

In credit-card format.

The SIM card contains all of the data required to identify the subscriber, to allocate the telephone number and the personal phone book.

Using your SIM card it is also possible to make telephone calls with a cellular phone.

Specifications

SMS - Short Message Service

Using this function it is possible to send other subscribers messages up to 160 characters in length, even if the recipient's cellular phone is not switched on or a call cannot be put through at the present time.

The text is stored temporarily in the network until the recipient retrieves his messages or the time limit set by the sender has expired.

Amplifier

Output power: 4 x 23 watts RMS according to DIN 45 324 at 14.4 V
4 x 40 watts maximum power

Tuner

Wavebands:
FM 87.5 – 108 MHz
MW 531 – 1602 kHz
LW 153 – 279 kHz

FM sensitivity: 0.9 μ V at 26 dB S/N ratio

FM transmission range:
30 - 16,000 Hz

Tape deck

Transmission range: 30 - 18,000 Hz

Telephone

Standard: GSM
Frequency band:
Send 890 – 915 MHz
Receive 935 – 960 MHz
Transmission power: Class 4 / 2 watts
Sensitivity: -108 dBm
Impedance:
Antenna connection 50 ohms
Hands-free microphone 660 ohms

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Service numbers

	Tel.:	Fax:
Deutschland	018 050 002 25	051 214 940 02
Belgium	025 255 444	025 255 448
France	014 010 70 07	014 010 73 20
Netherlands	023 565 63 48	023 565 63 31
Great Britain	018 958 383 66	018 958 383 94
Denmark	44 89 83 60	44 89 86 44
Sweden	08 750 15 00	08 750 18 10
Norway	66 81 70 00	66 81 71 57
Finland	094 359 91	094 359 92 36
Österreich	045 989 90 28	016 103 93 91
Greece	015 762 241	015 769 473
Tschechische Republik	026 130 04 41	026 130 05 14
USA	800-266 25 28	708-681 71 88
Singapore	006 535 054 47	006 535 053 12
Slovakia	042 175 873 212	042 175 873 229

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