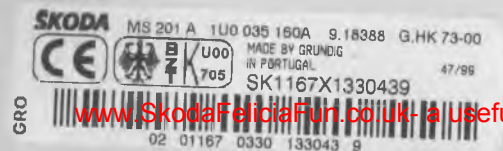


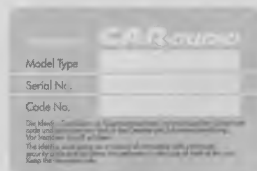
GRUNDIG

MS 201a



CARaudio

www.SkodaFeliciaFun.co.uk - a useful website for owners and enthusiasts of Skoda Felicia Fun Pickup Trucks



- (D)** Identity Card und Code-Aufkleber
(siehe dazu Seite 2)
- (GB)** Identity Card and Code label
(see page 2)
- (I)** Identity Card e Adesivi di segnalazione
(vedere pagina 2)
- (F)** Identity Card et Autooollants de code
(pour plus d'informations, voir page 2)
- (NL)** Identity Card en Code-sticker
(zie daarvoor pagina 2)
- (E)** Identity Card y Adhesivos de código
(véase la página. 2)
- (P)** Identity Card e Autocolante «Code»
(ver página 2)

(D) Im Falle eines Defektes

Auf Ihren Wunsch kann Ihr Fachhändler in der Bundesrepublik Deutschland als Serviceleistung **Grundig** Autoradios im Falle eines Defektes durch werksgeprüfte Austauschgeräte ersetzen.

Bitte beachten Sie jedoch, daß Voraussetzung für die Teilnahme an diesem Austauschsystem das unverletzte Garantiesiegel am Gerät ist.

(GB) If a problem should arise

Please note, that the undamaged guarantee seal on the unit is the precondition for your guarantee.

(I) Se si dovessero verificare disturbi

L'apparecchio sia ancora presente il sigillo di garanzia intatto.

(F) En cas de défectuosité

Veuillez noter que vous ne pouvez plus faire valoir la garantie une fois le sceau d'origine rompu.

(NL) In geval van een defect

Let op, alleen als het garantiezegel niet verbroken is, heeft u recht op garantie.

(E) En caso de un defecto

Observe que el sello de garantía intacto en el aparato es el requisito para hacer valer el derecho de garantía.

(P) Em caso de defeito

Tenha em consideração que a premissa para a concessão da garantia é que o selo de garantia no aparelho estiver intacto.

(E)

DECLARACION DE CONFORMIDAD CON NORMAS

El que suscribe, en nombre de GRUNDIG AG, Kumpartenstraße 37, D-90762 Fürth, RFA, declara, bajo su propia responsabilidad, que el

Equipo:	AUTORRADIO CON CASSETTE
Fabricado por:	GRUNDIG AG
En:	BRAGA, PORTUGAL
Marca:	GRUNDIG
Modelo:	MS 201a

objeto de esta declaración, cumple con la normativa siguiente:

- Anexo V del Reglamento sobre Perturbaciones Radioeléctricas aprobado en el Real Decreto 138/1989.
- Este certificado ha sido expedido para dar cumplimiento al Real Decreto 1066/1989 (Orden Ministerial del 18.10.1989).

Hecho en: Fürth

el: 10.07.1998

Firma

Kamleiter

Jefe de Homologaciones

Nombre y apellidos.

Cargo

Contents

Please Note	2
Theft protection	2
Removing and refitting the control unit	3
General notes	4
Switching On and Off	5
Volume and Sound Settings	6
Volume	6
LOUD (Loudness)	6
Radio (TUNER)	7
Selecting a range	7
Traffic announcement standby (TP)	7
Alternative frequencies (AF)	7
Setting RDS programmes (IS function)	8
Station buttons ○1, ○2, ○3, ○4	8
Selecting stations/RDS programmes with the search function	9
Manual frequency tuning	9
Programme types (PTY)	10
PTY function	10
Allocating the PTY programme buttons ...	11

CD or DAT Mode	11
Connecting a CD or DAT player	11
Activating the CD or DAT mode (AUX mode)	11
Cassette (TAPE)	12
Selecting the TAPE programme source ...	12
Fast forward and rewind	12
Compact Disc (CD)	13
Selecting the CD programme source	13
Selecting a CD	13
CD play functions	13
TRACK SCAN, FAST, RANDOM	13
EXPERT Control Level	14
EXPERT settings summary	14
Changing EXPERT settings	14
Possible settings ① ... ⑫	15
Coding	17
Is the coding activated	17
Activating the coding	17
Deactivating the coding	17
Return to operation	18
Waiting periods	18

Operating Instructions

Important Information	19
Audio cassettes	19
Radio reception conditions	19
Care and maintenance	19
Troubleshooting	20
The unit cannot be switched on	20
The security LED does not flash	20
Poor reception	20
The CD does not play	20

CE

This unit corresponds to the EMV protective requirements (CE directives 89/336, 92/31 and 93/68) according to the EN 55013 and EN 55020 norms.

Subject to technical alterations and alterations in styling!

GB

I

F

NL

E

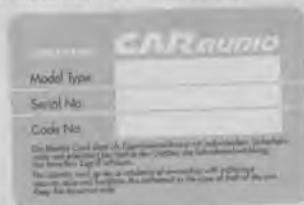
P

CZ

Please Note

Theft protection

The identity card for your car radio contains the model type, the serial number and the code number for coding.



The serial number is identical with the number embossed in the frame of your car radio.

The Identity Card facilitates criminal investigation by the police in case of theft and speeds settlement of an insurance claim by providing evidence of ownership.

⚠ Keep the card in a safe place, out of reach of unauthorized persons.

⚠ If you should lose the Identity Card (code number), only your specialized dealer can put the radio into operation again against a fee after furnishing evidence of your ownership.

Code labels



The code labels, placed on the inside of the car window for high visibility, show everyone:

The car radio is worthless to thieves!

Coding

If the code is activated and the car radio is disconnected from the car battery (or permanent plus terminal 30) of your vehicle, the radio is electronically disabled. Only you can start it again by entering your personal code number.

Removing the control unit

In addition to activating coding, you can remove the control unit of the car radio and take it with you. This renders the car radio worthless to thieves.

Security LED

The Security LED is visible when the car radio is switched off and the ignition key is removed. To de-activate the LED, see page 15, EXPERT ③.

Security

- i To ensure that your car radio remains where it is:
- Activate the coding.
 - Stick the code labels on the car windows.
 - Remove the control unit.
 - Activate the Security LED.

GRUNDIG environment initiative



You must have noticed that we have completely dispensed with plastics in the packing material for this car radio. All parts are made of cardboard and paper and can be disposed of within the existing paper recycling system.

Removing the control unit

You can remove the control unit from the radio to make the radio worthless for other persons.

If you remove the control unit when the radio is switched on, the radio will be switched off.

Hold the control unit and press on the  button as shown in the figure.

The control unit unlocks and can be removed.



Keeping the control unit

Always keep the control unit in its case.

The control unit is fixed inside the case.

Grasp the control at its lateral edges to remove it from the case (see figure).



If you should lose the control unit, you can purchase a replacement unit after furnishing evidence of your ownership (e.g. Identity Card).

Consult your specialized dealer.

Refitting the control unit

Insert the control unit into the instrument cut-out so that it locks into place.



GB

Traffic safety

- ⚠ **Before making a drive**
please familiarise yourself with the various functions of your car radio.
- ⚠ **Sound volume and traffic**
Operating your radio at high volume while driving can endanger you and other road users.
Therefore, always adjust the volume so that you can still safely hear outside noise (e.g., car horns, police and emergency vehicles, etc.). Set the volume by means of the  **VOLUME** rotary knob.
- ⚠ Traffic announcements can come through with a considerably higher volume than the normal programme. See also page 16, EXPERT ⑫.
- ⚠ On multimedia CDs, data tracks are recorded in addition to the sound tracks. If you play such a CD despite of the warning message, noise may be generated in a volume which can endanger traffic. In addition, the receiver's output stages and the loudspeakers may be damaged.

Extended functions

In the EXPERT control level, the radio allows for the use of functions extending beyond the level of the basic functions.

Phone mode with a car telephone

Your car radio is provided with a connector for a car telephone or CB radio.

When operating the car telephone or CB radio, the car radio is muted.

The display then indicates "*PHONE*", see also page 16, EXPERT ⑨.

Sound signal

Your car radio has been preset at the factory so that functions are confirmed by a brief sound signal (beep).

In the EXPERT control level, you can use the "*BEEP OFF*" function to replace the sound signal with a brief muting of the loudspeakers, see page 15, EXPERT ④.

Switching On and Off

The car radio can be switched on and off in several ways.

1. Press the  button.
2. Switching on and off with the ignition/starter switch of the vehicle.

For this, the car radio must be switched on once with the ignition turned on. Then the radio is automatically switched on and off with the ignition.

3. This function can be altered in the EXPERT control level, see page 16, EXPERT ⑧.

4. If you wish to switch on the car radio after switching off with the ignition/starter switch of the vehicle

press the  button.

On/off
button



-  If you now leave the ignition/starter switch in its off position, the car radio is automatically switched off after 1 hour.

It is possible to switch the car radio off at any time by pressing the  button.

It is also possible to switch it on repeatedly.

-  When switching on the car radio, the automatic aerial will automatically be extended!

For this reason, always switch off the car radio before visiting a car wash!

GB

Volume and Sound Settings

Volume

Use the **VOLUME** rotary knob to adjust the desired volume level.

The display indicates:
"VOL 00" ... "VOL 46".

Sound

For each of the **FADER**, **LOUD**, **BASS**, **TREBLE**, and **BALANCE** settings applies:

1. Select the desired function by briefly pressing the **SOUND** button once or several times.
2. Adjust the desired sound with the help of the **VOLUME** rotary knob or select the basic setting: press the **SOUND** button until the signal sounds.
3. Terminate a setting: repeatedly press the **SOUND** button until the station selected is displayed again.

After approximately 10 seconds, the control level with the current settings is left automatically.

Example: Bass

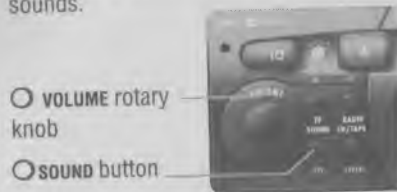
Repeatedly and briefly press the **SOUND** button until the display indicates:

BASS 00

Use the **VOLUME** rotary knob to adjust the bass tones to your taste.

If you wish to instantly recover the default setting:

Press the **SOUND** button until the signal sounds.



LOUD (Loudness)

The loudness function improves the sound quality at low volume.

The function can be switched on and off from the basic setting.

Press the **SOUND** button until two sound signals are heard. The display indicates "LOUD ON" or "LOUD OFF".

FAD (Fader)

The fader function is used to alter the balance between the front ("F") and rear ("R") loudspeaker groups.

FAD R --- F

BAL (Balance)

BAL L --- R

The balance function is used to alter the balance between the left ("L") and right ("R") loudspeakers.

Radio (Tuner)

Selecting a range

FM range: Repeatedly and briefly press the **RADIO** button until the display indicates "FM I" or "FM II".

AM range: Repeatedly and briefly press the **RADIO** button until the display indicates "MW" (Medium-wave) or "LW" (Longwave) and the frequency tuned to. The mediumwave and longwave bands form a contiguous range and no switch-over is therefore required.

Last Station Memory

After selecting a range, you will hear the station last tuned to in this range (Last Station Memory). The radio stores the settings made before switching off in this memory. After switching on again, you will hear the last station or recover the TAPE/CD function, respectively.

Stereo reception (only on FM)

You are receiving a stereo broadcast when the display indicates "σ".

Traffic announcement standby (TP)

TP (TRAFFIC PROGRAM) = stations broadcasting traffic announcements.

Switching TP on/off:

Briefly press the **TP** button.

Traffic announcement standby activated: the "TP" sign is displayed.

 If the station tuned to is no TP station, the radio starts automatically a search for the next TP station.

Aborting the current traffic announcement: Briefly press the **TP** button. The standby function is maintained.

 Traffic announcements come through with a certain minimum volume.

You can adjust this minimum volume for traffic announcements in the EXPERT control level menu, see page 16, EXPERT ⑫.

 If you wish to hear **only** traffic announcements, activate the "Traffic announcement standby" function with the **TP** button and set the volume level to "zero" with the **VOLUME** rotary knob.

 When a traffic announcement is received, cassette or CD play will also be interrupted for the duration of this announcement.

Alternative frequencies (AF)

When receiving a DSR programme which is broadcast by several stations on different frequencies, the car radio will automatically tune to the frequency giving best reception.

 When you are in an area with very poor reception conditions, it may happen that short pauses occur while the radio is searching for the alternative frequencies. It is best in this case to switch the AF function off.

The car radio comes with the AF function activated (default setting).

Switching off the AF function

This is only possible for stations broadcasting alternative frequencies.

Press the **TP** button until the signal sounds.

The "AF" indication disappears from the display.

Re-activating the AF function

Press the **TP** button until the signal sounds.

The "AF" sign is displayed again.

GB

Setting RDS programmes (IS function)

With the push of a button you can store up to 30 RDS programmes in the IS memory. The stored RDS programmes can be called up one after the other, see "Important Information".

i The IS memory is useful if you wish to re-assign the station buttons, or you are in an unknown reception area and do not wish to erase your stored stations.

Starting an IS search

Use the **RADIO/IS** button to select the "FM I" or "FM II" range.

Press the **RADIO/IS** button until the first signal sounds.

"IS ..." is displayed and the search function scans the FM range.

i Always wait until the IS function (= intelligent search) is completed.

i If no reception is possible (e.g. in an underground car park, or when the aerial is defective), the search function may be endless. In this case you can switch off the search function by pressing one of the station buttons **01 ... 04** (see page 20).

As soon as the IS search function is completed, up to 30 stations are stored and you will hear the station giving best reception.

The intelligent search function IS first stores the RDS programmes (sorted by programme name) and then the remaining stations in the order of their volume level.

Calling up the IS memory contents

Select the IS function by pressing one of the **TUNING** buttons until "IS ON" is briefly displayed. After a successful IS search, the IS function is automatically maintained.

Briefly pressing one of the **TUNING** buttons calls up the stations stored in the IS memory in the corresponding direction. "IS-SCAN" is displayed until a station is found.

To de-activate the IS function press one of the **TUNING** buttons until "IS OFF" is briefly displayed.

The station search function is described on page 9.

Station buttons 01, 02, 03, 04

Select a range: FM I, FM II, MW or LW.

Tune in a station/RDS programme:

i If the station/RDS programme tuned to is already stored on a station button in the selected range, e.g. "FM I", the display indicates "M" and the corresponding digit, e.g. "M3" for memory position 3.

Storing the station/RDS programme tuned to:

Press the station button until the signal sounds.

i The selected AF setting is stored together with the station.

Station buttons
01 ... 04



Calling up stored stations/RDS programmes:

Select the range: FM I, FM II, MW or LW.

Briefly press the desired station button.

 The memory contents are maintained even when disconnecting the battery voltage.

Selecting stations/RDS programmes with the search function

1. Select the range with the  **RADIO** button: "FM I", "FM II" or "MW", "LW".

For a station search in the FM I or FM II range, the "IS" function must be switched off. For this, press one of the  **TUNING**  buttons until "IS OFF" is briefly displayed.

 The search function operates with two different sensitivities in the FM ranges. When exploring the frequency range the first time, it searches for stations with high field strength (local reception). When exploring the range the second time, it searches also for stations with low field strength (distant reception).

In the AM range, the search function first explores the LW band and then the MW band.

2. Briefly press one of the  **TUNING**  buttons to start the station search in the desired direction. The frequency, e.g. "99.40", is visible in the display. If a station having a name is found, this is displayed, if not, the frequency indication remains on.

 If the station/RDS programme tuned to is already stored on a station button in the selected range, e.g. "FM I", the display indicates "M" and the corresponding digit, e.g. "M3" for memory position 3.

3. For storing the station/RDS programme tuned to on a station button, proceed as described in the section "Station buttons" on page 8.

Manual frequency tuning

1. Select the range with the  **RADIO** button: "FM I", "FM II" or "MW", "LW".
2. Press one of the  **TUNING**  buttons until two signals sound and "MAN ..." with the current frequency is visible in the display, e.g. "MAN 100.50".

 If the pressed  **TUNING**  button is held down, tuning is effected at high speed.

3. Use the  **TUNING**  buttons to tune to the frequency in the desired direction. The  **TUNING** button increases the frequency in steps of 50 kHz in the FM range and in steps of 1 kHz in the AM range. The  **TUNING** button decreases the frequency in the same steps. The display indicates, for example, "MAN 92.70".

 If the station/RDS programme tuned to is already stored on a station button in the selected range, e.g. "FM I", the display indicates "M" and the corresponding digit, e.g. "M3" for memory position 3.

4. For storing the station/RDS programme tuned to on a station button, proceed as described in the section "Station buttons" on page 8.

5. To terminate manual frequency tuning, briefly press the  **RADIO** button.

 If no button is pressed within the next 60 seconds, manual frequency tuning will be automatically terminated.

GB

Programme Types (PTY)

Many radio stations offer the "Programme Type" (PTY) service in the FM range (FM I, FM II). For example, the identification "NEWS" is broadcast with the latest news.

Using the PTY search function, you can automatically tune to stations having a preselected programme type, e.g. "POP".

Programme types

The programme types a radio station offers change according to the programme being broadcast.

NEWS	News and current events
AFFAIRS	Politics and current affairs
INFO	Special talk programme
SPORT	Sport programme
EDUCATE	Learning and continuing education
DRAMA	Radio plays and literature
CULTURE	Culture, church and society
SCIENCE	Science
VARIED	Talk entertainment
POP	Pop music (hits)
ROCK M	Rock music
LIGHT M	Light music

LIGHT M	Light classical music
CLASSICS	Serious classical music
OTHER M	Music programmes that cannot be categorised (e.g., Folklore)
WEATHER	Weather forecast
FINANCE	Finance/Business news
CHILDREN	For children
SOCIAL A	Social service
RELIGION	Religion/Philosophy/Theology
PHONE IN	Audience participation
TRAVEL	Travel service
LEISURE	Leisure, hobby, pastime
JAZZ	Jazz music
COUNTRY	Country music
NATIONAL	National music
OLDIES	Golden oldies
FOLK M	Folk music
DOCU	Documentaries
NO PTY	No programme type

PTY search



For selecting a programme type, two methods of calling up the PTY search function are available.

1. The four PTY programme type buttons (station buttons) are assigned to four programme types. You can alter this pre-set assignment as desired.
2. You can select a programme type in the stored list and then start the search function.

The following sections describe the procedure.

PTY function

1. Activate the PTY function

Press the button until the signal sounds:
the last selected programme type is displayed.

2. Select the programme type ...

- with the buttons

Briefly press the desired button.
The PTY search automatically runs to the next station broadcasting the preset programme type and briefly displays this programme type, e.g. "POP", and then the name of the station tuned to.

- or -

Radio

- Repeatedly press the  **TUNING**  buttons until the desired programme type is displayed.

Press one of the  **TUNING**  buttons until the signal sounds.

The PTY search runs to the next station broadcasting the selected programme type, e.g. "POP", which then is displayed.

-  If no station is offering the selected programme type, you will hear the station last tuned to and the PTY function is deactivated.

1. Deactivating the PTY function

This is done by briefly pressing the  **PTY** button or automatically after approximately 10 seconds.

Assigning the PTY programme buttons

The station buttons

are assigned at the factory to the programme types

 **1 NEWS**,  **2 SPORT**,  **3 POP** and  **4 CLASSICS**.

You can assign each of these station buttons to a programme type of your choice.

1. Activate the PTY function:

Press the  **PTY** button until the signal sounds. The display briefly shows "PTY" and the selected programme type, e.g. "NEWS".

2. Repeatedly press the **TUNING** buttons until the desired programme type is displayed.

3. Press the desired station button, e.g.  **1**, until the signal sounds.



Station buttons
01 ... 04

CD or DAT Mode

Connecting a CD or DAT player

CD = Compact Disc (without CD changer)

DAT = Digital Audio Tape

If you have not connected a GRUNDIG CD changer, you can connect another CD or DAT player via a GRUNDIG CDP adapter to the car radio.

Activating the CD or DAT mode (AUX mode)

Repeatedly and briefly press the  **CD/TAPE** button until "AUX" is displayed.

-  Operation of the connected units is directly controlled on the units themselves. Please observe the technical data and the operating instructions of the units used. The maximum output voltage is not allowed to exceed 2 V_{rms}.

-  CD play is interrupted during traffic announcements.

To abort a traffic announcement, briefly press the  **TP** button.

Cassette (TAPE)

⚠ Please always eject the cassette by pressing the  button before switching off the radio. This will save the cassette.

Selecting the TAPE programme source

Insert a cassette into the cassette compartment.
The display indicates "TAPE A" or "TAPE B".

Changing the cassette side

Press the  and  buttons slightly at the same time. At tape end, the cassette side changes automatically.
Indications in the display:

"TAPE A" - upper cassette side.

"TAPE B" - bottom cassette side.

Fast forward and rewind

Activate the function:

Press the  or  button until it locks in place. "« WIND" or "WIND »" appears after approximately 1.5 s in the display.

 While a cassette is wound forward or rewound, you can listen to the radio or play a CD. For this, press the  RADIO or  CD/TAPE button.

Cancelling the function

Press the  or  button halfway in.
Cassette play is automatically started.

Terminating cassette play

Press the  button fully down.
The cassette will be ejected.

General notes

-  The unit is optimized for CR (chromium dioxide) cassettes.
-  With traffic radio (TP) activated, cassette play will be interrupted during traffic announcements.

To abort a traffic announcement:
briefly press the  TP button.



Compact Disc (CD) with "GRUNDIG CD changer"*

 The following functions are only possible if you have connected a suitable CD changer* to your radio. Please also observe the operating instructions of the CD changer. On page 20 you will find a list of possible error messages.

Selecting the CD programme source

Repeatedly and briefly press the  CD/TAPE button until "CD" appears in the display.

Selecting a CD

Repeatedly and briefly press the  DISC^ or  DISC~ button until the display indicates the number of the desired CD.

Selecting and repeating a track

Repeatedly and briefly press the  TRACK  button until the display indicates the number of the desired track.

-  TRACK : next track
-  TRACK : preceding track or repetition of the current track.

*Your specialized dealer can tell you which Grundig CD changer is suitable.

Playing the tracks of the selected CD for approximately 10 s (TRACK SCAN)

Briefly press the  SCAN button.

"SCAN ON" appears briefly in the display.

Terminate:

Briefly press the  SCAN button once again.

"SCAN OFF" appears briefly in the display.

When switching the radio off, this function will automatically be reset.

Fast scan (TRACK FAST)

This function plays the tracks with reduced volume level at high speed.

Forward: Press and hold down the  TRACK button.

Reverse: Press and hold down the  TRACK button.

Playing tracks in random order (TRACK RANDOM)

Start track random:

Press the  RANDOM button: "RND ON" appears in the display. The tracks of the selected CD are played in random order.

Terminate track random:

Press the  RANDOM button: "RND OFF" appears in the display.

When switching off, this function is automatically reset.

Ending CD mode

Press the  RADIO button to return to radio mode.

GB

EXPERT Control Level

To make car radio operation as easy as possible, numerous settings that you need only once or occasionally are located in an additional control level (EXPERT).

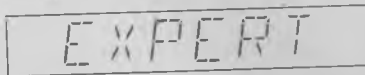
EXPERT settings summary

- ① Code settings
- ② Display brightness
- ③ Security LED on/off
- ④ Sound signal on/off
- ⑤ AM range lock
- ⑥ Automatic traffic programme search on/off
- ⑦ Automatic change of regional programme on/off
- ⑧ Switching on/off with the ignition/starter switch
- ⑨ Muting during telephone mode
- ⑩ Input sensitivity for CD and DAT mode
- ⑪ Volume limitation when switching on
- ⑫ Minimum volume level for traffic announcements

Changing EXPERT settings

1. Activate the EXPERT mode

Press the  EXPERT button until the signal sounds. The display indicates briefly "EXPERT".

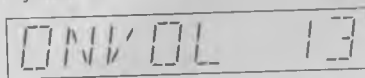


2. Select a setting

Select the setting you wish to check or change by pressing the  TUNING  buttons.

Example: Change the volume limitation when switching on (function ⑪)

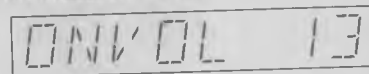
Use the  TUNING  buttons to select the desired function "ONVOL 13". The display indicates:



You hear the selected station with the set volume level.

3. Activate the setting

Briefly press the  EXPERT button. The indication flashes.



4. Change the setting

Use the  TUNING  buttons to adjust the desired volume.

The display indicates, for example:



-  TUNING : increases the value or switches the function on
-  TUNING : decreases the value or switches the function off

Press the respective button repeatedly to change the value step by step or hold it down to change the value at high speed.

5. End the adjustment

Briefly press the  EXPERT button. The EXPERT function is displayed permanently again.

6. Select the next setting

(Repeat the steps 2. through 5).

7. De-activate the EXPERT mode

Press the **○ EXPERT** button until the signal sounds.

Possible settings ①...⑫**① Activating coding (for details, see the chapter "Coding", page 17)**

If **"CODE"** appears in the display, coding is not activated.

If **"SAFE"** appears in the display, coding is activated.

② Display brightness

"DISPL 07" (00 ... 63). Set according to the location of the car radio so that the display can optimally be read off.

③ Security LED (on/off)

"BLK ON" The Security LED flashes if the radio **and** the ignition are switched off.

"BLK OFF" The Security LED does not flash.

④ Sound signal (on/off)

"BEEP ON" Sound signal as function confirmation.

"BEEP OFF" Function confirmation by brief muting of the loudspeaker outputs.

⑤ AM range (on/off)

"AM ON" The AM range can be selected with the **○ RADIO** button.

"AM OFF" The AM range is skipped when switching between ranges.

GB

⑥ TP-IS (radio mode)

If you are in a reception area in which reception of RDS programmes with traffic announcements is poor, you can disable the automatic station search function in radio mode.

"TP-IS ON" Automatic traffic radio station search on.

"TP-IS OFF" Automatic traffic radio station search off.

 If the volume is set below "VOL 4", the **"TP-IS ON"** setting is supposed.

⑦ Autom. change of regional programmes

If an RDS programme consists of various regional programmes, it may occur that your car radio changes between regional stations when changing the reception area.

"REG ON" Autom. change of regional programme is possible.

"REG OFF" Autom. change of regional programme is not possible.

⑧ Switching on and off with the ignition/start switch

"IGN ON" It is possible to switch the radio on and off with the ignition/start switch of the vehicle.

"IGN OFF" Switching on and off is only possible with the  button.

⑨ Muting in telephone mode

"PHONE ON" Muting activated.

"PHONE OFF" Muting deactivated.

 The telephone mute signal must be applied.

⑩ MCD (AUX) input sensitivity

to adjust the sensitivity to a CD changer.

"MCD LOW" = low

"MCD MID" = medium

(e.g. MCD 36/MCD 40)

"MCD HIGH" = high

⑪ Volume limitation when switching on

"ONVOL --" no limitation

"ONVOL 20" max. volume, e.g. 20
(setting range:
-- (0) ... 46).

The volume is limited only if the volume when the car radio is switched off is greater than the set value!

⑫ Minimum volume level for traffic announcements

"TRVOL 15" (5 ... 46)

The volume for the traffic announcement can be heard during setting.

i Your personal code number is on the identity card of your car radio.

Coding is not activated when the radio leaves the factory.

If you have "activated" your car radio's coding: As soon as you disconnect the car radio from the car battery (or permanent plus terminal 30), it is electronically blocked.

Only you are able to put it back into operation by entering your personal Code Number.

Is the coding activated?

Activate the EXPERT mode and press the  **TUNING**  buttons until the display indicates "SAFE" or "CODE".

SAFE

Coding activated.

CODE

Coding not activated.

Activating the coding

1. Select the EXPERT control level and press the  **TUNING**  buttons until "CODE" appears in the display.
Activate the setting:
Briefly press the  **EXPERT** button. In the display flashes "----".
2. Enter the code number (on the Identity Card) with the  **TUNING**  or **01 ... 04** buttons (see example).
- i** Hold down the  **TUNING**  buttons to alter the number at high speed.

Example: 1703

Display:

Button **01** 1 brief pressure >|- - -<
Button **02** 7 brief pressures >|7 - -<
Button **03** 10 brief pressures >|7 0 -<
Button **04** 3 brief pressures >|7 0 3<
Pressing a button a longer time counts the respective digit backwards.

3. Confirm the code number:
Briefly press the  **EXPERT** button. In the display appears "SAFE".
Coding is activated!
4. Deactivate the EXPERT control level:
Press the  **EXPERT** button until the signal sounds.

Deactivating the coding

before removing the car radio, for example.

1. The EXPERT mode must be switched on and "SAFE" indicated in the display.
Activate the setting; briefly press the  **EXPERT** button. In the display flashes "----".
2. Enter the code number (on the Identity Card) with the  **TUNING**  or **01... 04** buttons as described under "Activating the coding".
3. Confirm the code number.
Press the  **EXPERT** button until "CODE" appears briefly in the display.
The radio will play after approximately 3 seconds.

Coding is deactivated!

If you have entered the incorrect code number:

"SAFE" remains in the display and the radio does not play.

Begin again. Be sure to observe the waiting periods between attempts (see page 18).

GB

Return to operation

With the coding activated, the car radio is electronically disabled after it has been disconnected from the car battery (or permanent plus, terminal 30), e.g. after the radio has been removed during servicing.

1. Switch on the car radio.

The display indicates "SAFE".

After approx. 3 seconds, the display indicates "i - - -". (The "i" stands for the number of attempts).

2. Enter the code number (on the Identity Card) with the TUNING or 01 ... 04 buttons as described under "Activating the coding".

3. Confirm the code number.

Press the  EXPERT button until "CODE" appears briefly in the display.

The radio will play after approximately 3 seconds.

If you have entered the incorrect code number:

"SAFE" remains in the display and the radio does not play.

Begin again. Be sure to observe the waiting periods between attempts (see next chapter).

Waiting periods

To prevent deactivation of the coding being possible by trial and error, waiting periods are required between attempts. During these waiting periods, the car radio can be switched on and off but will not play.

During the waiting period

the car radio needs not be switched on, but it must be connected to the permanent +12 V voltage. As long as the display indicates "SAFE", the waiting period has not yet elapsed. The waiting period is over when the number of the next attempt is visible in the display, e.g. "2 - - -".

The table shows the waiting periods between the individual attempts.

The waiting period after the 7th attempt is always 24 hrs!

After the 6th attempt we recommend having a dealer complete the "Return to operation" or "Deactivate coding" process.

Attempt (in display)	Wait.per. (approx.)
1	21 sec.
2	1.5 min.
3	5.5 min.
4	22 min.
5	1.5 hrs.
6	6.0 hrs.
7	24 hrs.
8	24 hrs.

Important Information

Audio cassettes

Cassettes are subject to high temperatures during car radio operation. Therefore use only high-quality heat-resistant C60 and C90 CrO₂ cassettes from name-brand manufacturers.

Radio reception conditions

VHF (FM) reception

Reception conditions change constantly while you are driving.

Mountains, buildings or bridges can all disturb reception.

This is particularly true when you are farther away from the station.

Radio Data System (RDS)

RDS is an information system the signals of which are broadcast along with the FM radio station programme.

Programme service

With RDS programmes, you see the abbreviated name of the programme in the display, e.g. 'UNYERN 3' which stands for Bayerischer Rundfunk – Programme 3. Please note that RDS programmes can have different regional stations and programme

Alternative frequencies (AF)

An RDS programme is broadcast by several stations, each with a different broadcast frequency (alternative frequencies). You select an RDS programme and your car radio will always tune to a station with an alternative frequency giving best reception of the same RDS programme.

Enhanced Other Network (EON)

This function allows you to listen to traffic announcements even if you have tuned in an RDS programme without traffic announcements.

Prerequisite:

The radio station that is broadcasting your selected RDS programme with EON broadcasts an additional RDS programme which offers traffic announcements.

Traffic announcement standby

in the case of RDS programmes with EON if "TP" is activated in the display and the RDS programme tuned to remains audible.

Switching TP on/off

Briefly press the  button.

If a malfunction should occur

please consult your dealer.

In the Federal Republic of Germany, **Grundig** car radios can be exchanged by your dealer on request for a works-tested exchange unit in the event of a defect occurring.

Please note:

It is a condition for your dealer to participate in this exchange system that the guarantee seal on your car radio is not damaged.

Care and maintenance

The front panel of the car radio must only be cleaned with a soft, dust-absorbent, anti-static cloth. Polishing and cleansing agents may damage the surface of the trimplate.

The tape head must be free of tape dust in order to avoid losses in the treble tones during playback. Therefore you should clean the tape head with a cleaning cassette after every 50 – 100 hours of operation.

GB

Troubleshooting

The radio cannot be switched on

Insert the control unit once again.

Press and hold down the  button for at least 1 second.

Check the fuse at the back of the radio. If it is defective, take the radio to your specialized dealer.

The Security LED does not flash

Check whether the EXPERT control level "BLK ON" is selected.

Select the EXPERT control level (see page 15), "BLK ON"



If the security LED does not function, let check the connections of the radio by a specialist.

Poor reception

Are you in an area of bad reception conditions (eg., underground car park, tunnel, valley, etc.)?

In this case, reception will surely improve when changing the location.

If reception gets nevertheless not better, the aerial or aerial lead might be damaged. Let check your radio by a specialist.

Reception is frequently interrupted

You are in an area of very bad reception conditions. Here it may happen that pauses occur when the radio tries to change to alternative frequencies. In this case, the AF function should be switched off (see page 7).

The CD does not play

Observe the error messages in the display and read the operating instructions of the CD changer.

MAGAZINE CD magazine missing or not locked in place.

MECHANIC CD changer – mechanical defect.

NO CD CD magazine empty.

NO COMMU Radio-to-CD connection interrupted.

SURFACE CD incorrectly inserted or distorted data transmission.

TDO HOT CD changer overheated.

One or more loudspeakers are dead

Check the setting of the FADER and BALANCE controls and correct if necessary. If this brings no result, let check the loudspeaker leads and the loudspeakers by a specialist.

1 2 3 4 5 6 7 8 9

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