



Mercedes-Benz



Radio Audio 10/30

Owner's Manual

These instructions are intended to help you become acquainted with your Mercedes-Benz car radio. They contain useful tips and a detailed description of the user functions.




Danger!

Always ensure that you remain in full control of your vehicle in all traffic situations when using the radio.

Also remember that your car travels a distance of 14 metres every second at a speed of only 50 km/h.

The right to correct errors and make technical amendments is reserved.

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The Dolby noise reduction system is manufactured under licence from Dolby Laboratories Licensing Corporation.

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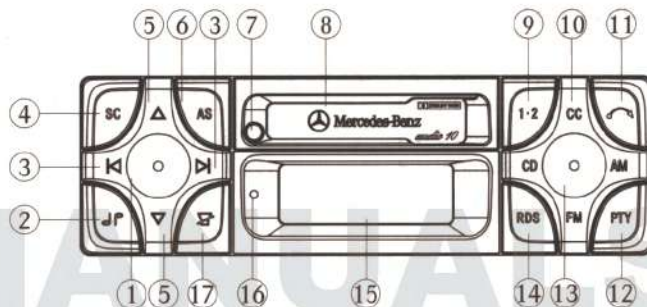
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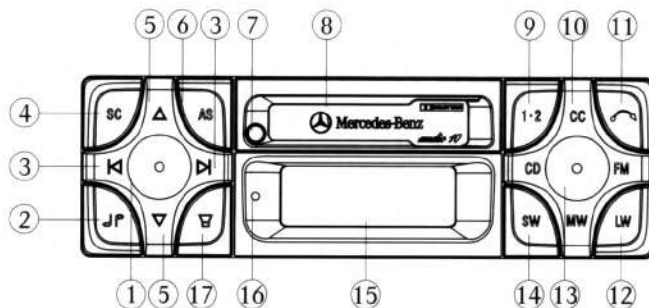
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Quick Guide for Audio 10 with RDS



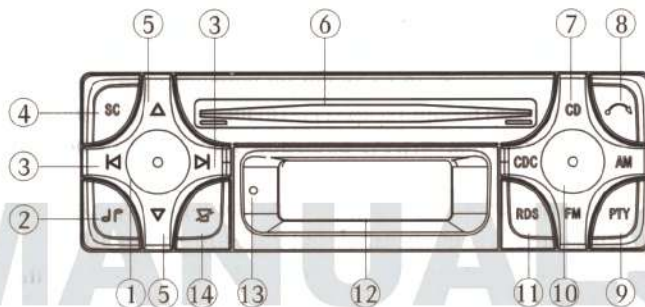
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Quick Guide for Audio 10 without RDS



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Quick Guide for Audio 10 CD



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Anti-theft system

If the power supply to the radio has been interrupted, "CODE" will appear on the display when it is next switched on. The radio will only work after the five-digit code has been entered using the right-hand control knob. The code number is shown on the Radio Code Card, supplied with the radio.

Important ! Never leave the RADIO CODE CARD in the vehicle. Keep it in a safe place.

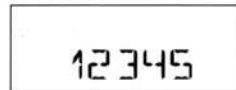
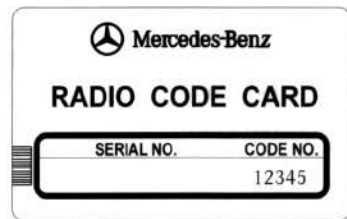
The stickers supplied should be stuck on the inside of the car windows in easily visible positions.

Entering the code number

Switch on the radio. "CODE" will appear on the display. Using the right-hand control knob enter each number of the digital code and confirm this by pressing the control knob. After entering the correct numerical code keep the right control knob depressed until the radio mode is operated.

If an incorrect numerical code has been entered and confirmed, "CODE" will reappear on the display. The correct code must be entered once again. If an incorrect code is entered three times, "WAIT" will appear on the display and the radio will be isolated for about 10 minutes.

Note: The isolation time will only elapse if the radio is switched on.



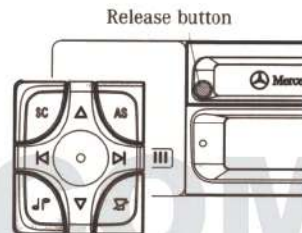
Visual deterrent

When the ignition key is turned to position 0 in the lock or withdrawn, the visual anti-theft warning in the LED next to the muting button will flash.

Removing/inserting the mobile operating panel


A further anti-theft function is provided by the removable left-hand operating panel. The release button has to be pressed and then the operating panel can be removed to the front. The radio unit cannot be operated unless the left operating panel is fitted in position.

Place the operating panel into the latch and lock this by gentle pressing. The radio is now ready for operation.



Operation

Switching on and off

Press the left-hand control knob .

The radio will be switched off when the ignition key is turned to position 0 or withdrawn. The radio is switched on again when the ignition key is turned to position 1 or 2.

Note: The radio can also be switched on even if the ignition key is not inserted, but will switch itself off automatically after one hour.

Adjusting the volume


Turn the left-hand control knob - The volume will either increase or decrease.

Setting the tone functions

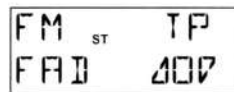
The tone button is used to retrieve the BASS, TREBLE, FADER and BALANCE functions. Settings for bass and treble are stored separately for the AM (MW, SW and LW) and FM (VHF) wavebands, traffic news, cassette and CD modes.

Tone level settings are identified by the numbers -10 to +10. The central setting is shown by the value 0.


Fader (Cross-fader)

Press the button  repeatedly until "FAD" appears on the display.

Turn the left-hand control knob - the sound is faded to the back or to the front.




Bass

Press the button  repeatedly until "BASS" appears on the display.
Turn the left-hand control knob - the bass level is increased or reduced.


FM _{ST}	TP
BASS	+5

Treble

Press the button  repeatedly until "TREB" appears on the display.
Turn the left-hand control knob - the treble level is increased or reduced.


FM _{ST}	TP
TREB	+5

Balance

Press the button  repeatedly until "BAL" appears on the display.
Turn the left-hand control knob - the sound balance is moved to the left or right.

FM _{ST}	TP
BAL	100

Centring all the tone functions in every mode

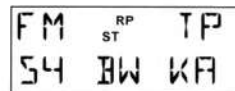
Hold down the button  until "RESET" appears on the display. All tone functions (BASS-TREB-BAL-FAD) are reset to the centre value and the volume is adjusted to a pre-set level.

FM _{ST}	TP
RESET	

Radio mode

Selecting radio mode

Press one of the waveband selector buttons to select radio mode.



Selecting the FM waveband

Press **FM** button.

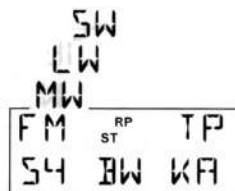
FM (VHF) 87.5 - 108.0 MHz

Selecting the AM waveband

AUDIO 10 with RDS / AUDIO 10 CD

Press **AM** button repeatedly until the desired waveband MW, LW or SW is displayed.

Medium wave 531 - 1620 KHz
Long wave 153 - 282 KHz
Short wave 5900 - 6250 KHz



AUDIO 10 without RDS

In the AM band press the desired button **SW**, **MW** or **LW**.

Medium wave 531 - 1602 KHz
Long wave 153 - 282 KHz
Short wave 5900 - 6250 KHz

RDS system

AUDIO 10 with RDS / AUDIO 10 CD

RDS is a method of transmitting inaudible supplementary information in the VHF audio waveband.

This enables a station to transmit information, e.g. its name or the alternative frequencies on which it can also be received.

RDS-AUTO-Best

The car radio uses an automatic analysis system (Auto-Best) to find the best frequency for the station currently tuned in from the available alternatives. When the signal strength from the station currently tuned begin to weaken, then analysis will take place immediately.

The radio may be muted for a short time during analysis. A BEST analysis is also carried out automatically when the radio is switched on, or when a station is selected from a station button, and also during cassette and CD modes.

Switching RDS-AUTO-Best on and off

The AutoBest function is switched on and off by pressing the **RDS** button.

When switched on the station name, and if this could not be identified, the "RDS" abbreviation will be displayed followed by the set frequency.

When switched off the frequency is displayed and no BEST analysis is carried out. The radio is in fixed mode (FIX).



Automatic station search

Press the **▷** button. The next station will be sought in ascending order.

Press the **◁** button. The next station will be sought in descending order.









Manual tuning

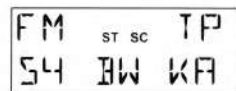
Press either the  or  button. Step-by-step tuning in ascending or descending order of frequency will take place.

First, three tuning steps will take place without muting. The radio will then be muted and high-speed tuning will take place until the button is released. The following tuning intervals will be shown on the display:


100 kHz	for FM
9 kHz	for MW
3 kHz	for LW
5 kHz	for SW

Scanning

Press the  button. Each receivable station on the waveband selected will be tuned briefly. The first scan will tune only the stations with a high signal strength. The second scan will tune every receivable station. By pressing the , , ,  or  buttons the scan can be stopped.



PTY function display

Press the  button in the FM waveband. The set station is displayed with its relevant programme type.

If the station is not transmitting any PTY information, then the display shows NO PTY. Please see Page 41 for a list of possible PTY codes.

Station memory


10 stations can be stored for each of the wavebands FM, MW, SW, and LW.

Storing stations

Select the desired station. Hold down the right-hand control knob until the waveband abbreviation and the station number flashes. Select the station button by turning the right-hand control knob, and then press this to store this station at this number. The storage is confirmed by a short signal tone.

The storage mode is left if no button is pressed within a period of 8 seconds.

Retrieving a station from memory

Select the desired station number using the right-hand control knob . The desired station is tuned approx. 1 second after the control knob is released.

AUDIO 10 with RDS / AUDIO 10 CD

If an identified station was stored in the station memory, then the stored station is retrieved on the currently best received frequency. If the station can no longer be identified, then the "RDS" abbreviation will be displayed, followed by the set frequency.

Automatic storage (Autostore)

Autostore makes an additional station button level available. When this function is activated, a search is started and the 10 strongest signals are stored in order of quality. Automatic storage will

FM 1 ST	TP
SWF 3	

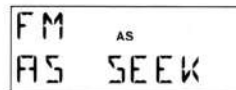
FM	ST AS	TP
RDS		104.8

operate on the FM, MW and LW wavebands.

Switching on Autostore

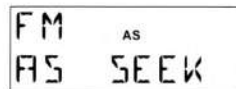
AUDIO 10

Hold down the **SC** button (in the desired waveband) until “AS SEEK” is displayed. The radio begins the automatic seek procedure. When the “AS SEEK” display disappears, the storage procedure has been completed and “AS” will be displayed.



AUDIO 10 CD

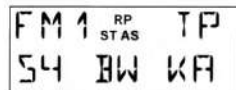
Hold down the **FM** or **AM** button (select MW or LW in advance) until “AS SEEK” is displayed. When the “AS SEEK” display disappears, the storage procedure has been completed and “AS” will be displayed.



Calling up Autostore memory

By pressing the **AS** button for a short time the Autostore memory is called up and the storage positions can be retrieved using the right-hand control knob.

Note: In the FM waveband storage is carried out only in FM fixed mode.



Switching off Autostore

Autostore is switched off the AS abbreviation is deleted when one of the waveband buttons is pressed or if the mode is changed. The normal station button storage is then active again.



Regional mode

AUDIO 10 with RDS / AUDIO 10 CD

Certain RDS stations broadcast regional programmes. Such programmes are identified by the additional abbreviation "RP" on the display. If regional mode is switched on, the Autobest function is restricted to the broadcasting range of the regional station.

Note: The "RP" abbreviation does not indicate whether the selected regional setting is "REG ON or REG OFF:

FM	^{RP} ST	TP
54	BW	KA

Switching on regional mode

Hold down the **RDS** button until "REG ON" appears on the display. If "REG OFF" is displayed first, then the **RDS** button must be held down again until "REG ON" appears. The frequency changeover is carried out within the regional area.

FM	^{RP} ST	TP
REG ON		
REG OFF		

Switching off regional mode

Hold down the **RDS** button until "REG OFF" appears on the display.

The station code and the "RP" display will be retained.

The RDS feature is now inter-regional. It can therefore happen that a changeover is made between regional stations by this function.

FM	^{RP} ST	TP
REG OFF		

TP - (Traffic Program)

AUDIO 10 with RDS / AUDIO 10 CD

If a station broadcasting traffic news is selected, "TP" (= traffic programme) will be displayed. The traffic news system is only active in the FM waveband.

The treble and bass values can be set to desired levels during traffic news and are automatically stored for the next traffic bulletins. The volume is raised automatically by a pre-defined volume level.

The activated traffic news function is shown by an negative "TP" in the display when in cassette or CD mode.


Switching traffic news relay on and off

To switch on: Hold down the  button until TP is shown in negative form.

To switch off: Hold down the  button until TP switches from negative to positive display.

Note: The traffic news relay function can only be activated when a TP station has been tuned.

Interrupting traffic news bulletins

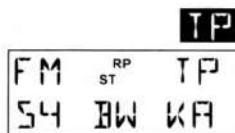
A traffic news bulletin can be interrupted by pressing the  muting button. The radio will revert to the mode previously selected or to the mute status. The next traffic bulletin will be relayed. If no bulletins are to be relayed during cassette or CD mode, then the mute button must be held down until the negative "TP" display goes out.




FM ^{RP} ST TP
54 BW KA




CC  TP
TRACK 1



 TP
FM ^{RP} ST TP
54 BW KA

Switching muting on and off

To switch on: Press the  button. The LED will light up and the radio is switched to relay traffic news bulletins.

If the station's transmission area is left, a new traffic news station will be sought automatically. If no traffic news station is receivable, muting will be suspended within three minutes. The negative "TP" will disappear from the display.

To switch off: Press the  button again or when switching off the radio.

Emergency alert

In an emergency alert, a station can transmit a warning signal using RDS. If traffic news is switched on, "ALARM" will appear on the display and all operating modes will be interrupted for the duration of the bulletin.



TA ALARM TP

Telephone muting

If a car phone is installed and its muting switch is connected to the car radio, the radio will be muted when the telephone is used. The radio cannot be operated when mute.



PHONE

Cassette mode

Audio 10 with RDS / AUDIO 10 without RDS

Playing cassettes

Push the cassette into the slot until it engages, then tap it gently. The cassette will be pulled in automatically. The radio will switch to cassette mode.

Track 1 will be played and "TRACK 1" displayed. Track 1 means the side of the cassette which is upwards.


The cassette deck will automatically detect the type of tape and analyse it.

The cassette will not be ejected when the radio is switched off or another mode is selected.

When a cassette has been inserted, cassette mode can also be switched on by using the **CC** changeover button. If no cassette has been inserted, the display will show "NO CC".



Cassette ejection


Press the eject button . The cassette will be ejected. The radio will switch back to radio mode automatically.


Note: The cassette will not be ejected when the radio is switched off.





Track selection

Press the track selection button **1-2**. The current track will be displayed as "TRACK 1" or "TRACK 2". The track will be changed automatically at the end of the tape.

Track search forwards/backwards

Press the  button. "MS FF" will be shown on the display and the track search will run the tape forwards to the start of the next track

Press the  button. "MS REV" will be shown on the display and the track search will run the tape backwards to the start of the track currently playing.

Track search can be interrupted by pressing the buttons , ,  or .

Note: The beginning of a track can only be located if there is a break of at least 4 seconds between tracks.

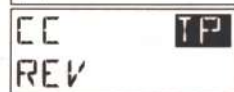


Fast forward/Reverse







Press the  button. "FF" will appear on the display and fast forward will start.

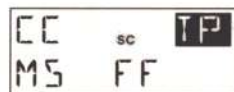
Press the  button. "REV" will appear on the display and fast reverse will start

Play the cassette by pressing the , , ,  or  button. The track will be changed automatically at the end or beginning of the tape and cassette mode selected.




Scanning

Press the  button. Each track on the cassette will be played briefly, in ascending order. The search will be interrupted at the track in question if the , , ,  or  button is pressed.



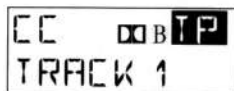
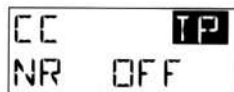
Dolby NR (noise reduction system)

Dolby NR B must be selected for optimum reproduction of cassettes recorded using the Dolby B NR system.

Press the  button repeatedly until "NR OFF" is displayed. Set to NR B using the left-hand control knob.

" B" will be shown on the display after the NR B display fades.

If cassettes are being played which were not recorded using the Dolby B NR system, then the Dolby NR function must be switched off. The Dolby display will disappear.



CD Mode

General notes on CD mode

Should excessive temperatures occur in CD mode, "TEMP ^" will appear on the display and muting will take place. The radio will then switch back into radio mode until the temperature has normalised.

Should temperatures occur in CD mode which are too low, "TEMP v" will be displayed, but reproduction will not be interrupted.

Handle CDs carefully to prevent interference during playback. Avoid fingermarks and dust on CDs. Do not write or stick anything on CDs. Clean CDs from time to time with a commercially-available cleaning cloth. No solvents, anti-static sprays, etc. may be used. Replace the CD in its box after use. Protect CDs from heat and direct sunlight.



Danger of Injury!

The CD changer is a Class 1 laser product. There is a danger of invisible laser radiation if the cover is opened or damaged.

Do not remove the cover. The CD changer does not contain any parts which can be serviced by the user. For safety reasons have any servicing work which may be necessary carried out only by qualified after-sales service staff.

AUDIO 10 CD

Loading the CD

Insert the CD printed side up. The CD will be loaded automatically. The CD-tuner switches automatically to CD mode. The CD symbol is shown in the display if a CD has been loaded. This symbol is also visible in radio mode when a CD has been loaded.




Track 1 is played.

The loaded CD is not ejected when the radio is switched off. If a CD has been loaded then the CD mode can also be selected using the **CD** button. "NO CD" will be displayed if there is no CD loaded.

CDs which have been incorrectly inserted or have the wrong format will be ejected.

CD ejection

Press the  eject button briefly. The radio switches automatically to radio mode and ejects the CD.

The CD can also be ejected even when the radio is switched off.

If the CD is not withdrawn within approx. 14 seconds, then it will be reloaded to protect the disk.

Playing CDs

Press the **CD** button briefly. The CD will start at the point it was at just before it was switched off. "NO CD" will be displayed if there is no CD loaded.

The number following "TRACK" indicates the current track number.



After the last track on a CD has been played, the first track will automatically be selected and played.

Skipping tracks forwards/backwards

Press the **▶** button and the next track on the CD will be played.

Press the **◀** button. If the track has been playing for more than 10 seconds, it will revert to the start of this track. If it has been playing for less than ten seconds it will revert to the preceding track.

To skip several tracks, the relative button must be kept pressed until the desired track is reached. If the beginning or end of the CD is reached during the search, then the search will be ended.

Fast forward/reverse

Press the **▲** button and hold it down for audible fast forward.

Press the **▼** button and hold it down for audible reverse.

The search will stop when the button is released. During the search the relative time of the track will be displayed and the volume reduced.



Scanning

Press the **SC** button. Each title of the loaded CD will be played for approx. 8 seconds. The search will be stopped at the track in question by pressing the **SC** button again.



Random play/Repeat function

The tracks of the current CD are played in random order when the Random generator function (RDM) is switched on. When the Repeat function (RPT) has been switched on a particular track can be played for as many times as desired.

Note: Both functions cannot be used simultaneously.



Switching Random Play on and off

Press the right-hand control knob briefly and then select the menu item "RDM ON" or "OFF" by turning the knob. Press the control knob briefly once more to switch off the function after having selected "OFF".



Switching Repeat Function on and off

Press the right-hand control knob briefly and then select the menu item "RPT ON" or "OFF" by turning the knob. Press the control knob briefly once more to switch off the function after having selected "OFF".




AUDIO 10

CD changer stand-by

If a CD changer is connected to the radio, it can be operated from the front control panel of the radio. A loaded magazine must be loaded for CD playing.

Loading/emptying the CD magazine



Push the shutter of the changer to the right and press the ejection button . The magazine will be ejected.

Take the magazine out. Pull out the CD holder completely and place the CDs in the compartment in the holder, printed side up. Push the holder into the magazine in the direction shown by the arrow. Push the magazine into the CD changer in the direction shown by the arrow.

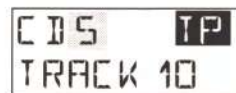
Important! Close the shutter after the magazine has been inserted.

N.B. Wrongly-inserted CDs will not be played.


Playing CDs


Press down the  or  (AUDIO 10 CD) button repeatedly until "CD" is shown on the display. The CD most recently played will start at the point where it was switched off.

CDs stored in the magazine can be selected by using the right-hand control knob. The magazine compartment number of the selected CD will then be displayed after "CD". After "TRACK" the number of the track being played will be displayed. If there is no CD in the selected magazine compartment, "NO CD" and the corresponding compartment number will be displayed. After the last track on a CD has been played, the next CD will automatically be selected and played.





Skipping tracks forwards/backwards



Press the  button. The next track on the CD will be played.

Press the  button. If the track has been playing for more than 10 seconds, it will revert to the start of this track. If it has been playing for less than ten seconds it will revert to the preceding track. To skip several tracks, the relative button must be pressed until the desired track is reached. If the beginning or end of the CD is reached during the search, the first or last track will be played.

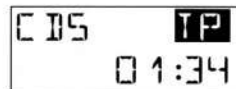
Fast forward/reverse

Press the  button and hold it down for audible fast forward.






Press the  button and hold it down for audible reverse.

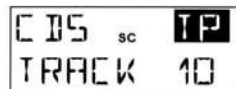
The search will stop when the button is released. The relative time of the track will be displayed during the search. The relative time can also be displayed for around 4 seconds during normal playback by pressing the  or  button.

If the beginning or end of the CD is reached during the search, the search will be ended.



Scanning

Press the  button. Each track of the currently loaded CD will be played for approx. 8 seconds. The search will stop at the track in question if the , ,  or  button is pressed.



Random play/Repeat function

The tracks of the current CD are played in random order when the Random generator function (RDM) is switched on. When the Repeat function (RPT) has been switched on a particular track can be played for as many times as desired.

Note: Both functions cannot be used simultaneously.



Switching Random Play on and off

Press the right-hand control knob briefly and then select the menu item "RDM" by turning the knob. Press the control knob briefly once more and the display shows "RDM ON" for a short time. The "RDM" abbreviation in the top display line remains visible.

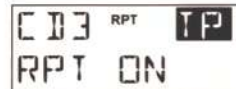
The function can be switched off by pressing the right-hand control knob briefly and selecting the "OFF" menu item. Press the control knob briefly once again to confirm and the "RDM" abbreviation goes out.



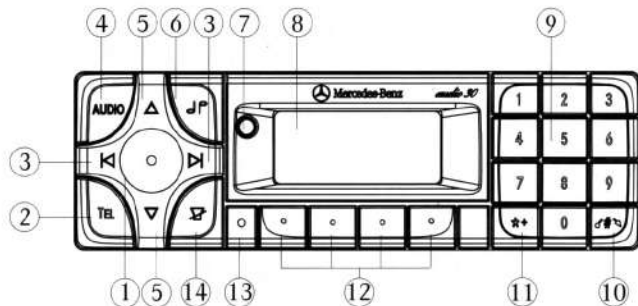
Switching Repeat Function on and off

Press the right-hand control knob briefly and then select the menu item "RPT" by turning the knob. Press the control knob briefly once more and the display shows "RPT ON" for a short time. The "RPT" abbreviation in the top display line remains visible.

The function can be switched off by pressing the right-hand control knob briefly and selecting the "OFF" menu item. Press the control knob briefly once again to confirm and the "RPT" abbreviation goes out.

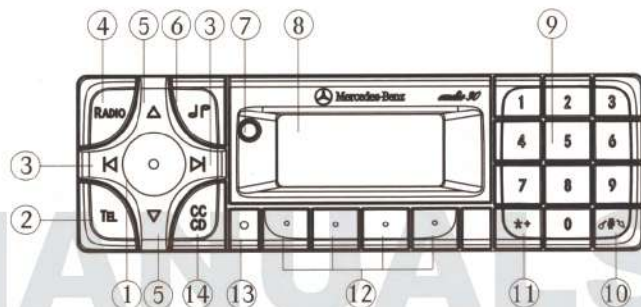


Quick Guide for Audio 30 with RDS



- | | | | |
|---------------------------------------------|-----------------|----------------------------------|-----------|
| 1 On/off, volume | (Page 34) | 8 Display panel | (Page 45) |
| 2 Operating mode Telephone | (Page 52) | 9 Station buttons | |
| 3 Station search Radio, track search CC, CD | (Page 38,46,50) | 10 Eject button CC | (Page 45) |
| 4 Operating mode Radio, CC, CD | (Page 36,45,49) | 11 Function button | (Page 40) |
| 5 Frequency tuning (Radio) | (Page 38,46,50) | 12 Function button Radio, CC, CD | |
| Fast forward/Reverse CC, CD | | 13 LED | (Page 33) |
| 6 Tone function | (Page 34) | 14 Muting | (Page 43) |
| 7 Release button for mobile operating unit | (Page 33) | | |

Quick Guide for Audio 30 without RDS



- | | | | |
|---------------------------------------------|-----------------|----------------------------------|--------------|
| 1 On/off, volume | (Page 34) | 8 Display panel | |
| 2 Operating mode Telephone | (Page 52) | 9 Station buttons | (Page 39) |
| 3 Station search Radio, track search CC, CD | (Page 38,46,50) | 10 Eject button CC | (Page 45) |
| 4 Operating mode Radio | (Page 36) | 11 Function button | (Page 40) |
| 5 Frequency tuning (Radio) | (Page 38,46,50) | 12 Function button Radio, CC, CD | |
| Fast forward/Reverse CC, CD | | 13 LED | (Page 33) |
| 6 Tone function | (Page 34) | 14 Operating mode CC, CD | (Page 45,49) |
| 7 Release button for mobile operating unit | (Page 33) | | |

Anti-theft system





If the power supply to the radio has been interrupted, "CODE" will appear on the display when it is next switched on. The radio will only work after the five-digit code has been entered using the buttons on the right-hand control panel.

The code number is shown on the Radio Code Card, supplied with the radio.

Important ! Never leave the RADIO CODE CARD in the vehicle. Keep it in a safe place.

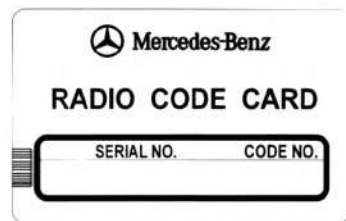
The stickers supplied should be stuck on the inside of the car windows in easily visible positions.

Entering the code number

Switch on the radio. "CODE" will appear on the display. Using the buttons of the right-hand control panel enter each number of the digital code. After entering the correct numerical code, confirm by pressing one of the buttons , ,  or .

If an incorrect numerical code has been entered and confirmed, "CODE" will reappear on the display. The correct code must be entered once again. If an incorrect code is entered three times, "WAIT" will appear on the display and the radio will be isolated for about 10 minutes.

Note: The isolation time will only elapse if the radio is switched on.



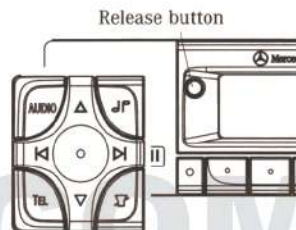
Visual deterrent

When the ignition key is turned to position 0 in the lock or withdrawn, the visual anti-theft warning in the LED next to the muting button will flash.

Removing/inserting the mobile operating panel

A further anti-theft function is provided by the removable left-hand operating panel. The release button has to be pressed and then the operating panel can be removed to the front. The radio unit cannot be operated unless the left operating panel is fitted in position.

Place the operating panel into the latch and lock this by gentle pressing. The radio is now ready for operation.



Operation

Switching on and off

Press the control knob .

The radio will be switched off when the ignition key is turned to position 0 or withdrawn. The radio is switched on again when the ignition key is turned to position 1 or 2.

Note: The radio can also be switched on even if the ignition key is not inserted, but will switch itself off automatically after one hour.

Adjusting the volume

Turn the control knob - The volume will either increase or decrease.


Setting the tone functions

The tone button  is used to retrieve the BASS, TREBLE, FADER and BALANCE functions.

Settings for bass and treble are stored separately for the AM (MW, SW and LW) and FM (VHF) wavebands, traffic news, cassette and CD modes.

Tone level settings are identified by the numbers -10 to +10. The central setting is shown by the value 0.


Fader (Cross-fader)

Press the  button repeatedly until "FAD" appears on the display.

Turn the control knob - the sound is faded to the back or to the front.




Bass

Press the  button repeatedly until "BASS" appears on the display.
Turn the control knob - the bass level is increased or reduced.


CC
BASS +6
LIN RST

Treble

Press the  button repeatedly until "TREB" appears on the display.
Turn the control knob - the treble level is increased or reduced.


CC
TREB +6
LIN RST

Balance

Press the  button repeatedly until "BAL" appears on the display.
Turn the control knob - the sound balance is moved to the left or right.

CC
BAL 6 >
LIN RST

Centring all the tone functions in every mode

Hold down the  button until "RESET" appears on the display. All tone functions (BASS-TREB-BAL-FAD) are reset to the centre value and the volume is adjusted to a pre-set level.

CC
RESET
LIN RST



Radio mode

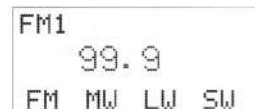
Selecting radio mode

AUDIO 30 with RDS

Press **AUDIO** button repeatedly until the radio menu is displayed.

AUDIO 30 without RDS

Press **RADIO** button.



Selecting the waveband

AUDIO 30 with RDS

If one of the MW, LW or SW bands is being selected from the FM menu, first of all press the **AM** button.

Frequency ranges:

FM (VHF)	87.5 - 108.0 MHz
AM (MW)	531 - 1620 KHz
LW	153 - 282 KHz
SW	5900 - 6250 KHz



AUDIO 30 without RDS

To select the wavebands press the button located the waveband abbreviation. The waveband selected is shown in the top line of the display.

Frequency ranges:

FM (VHF)	87.5 - 108.0 MHz
AM (MW)	531 - 1602 KHz
LW	153 - 282 KHz
SW	5900 - 6250 KHz



RDS system

AUDIO 30 with RDS

RDS is a method of transmitting inaudible supplementary information in the VHF audio waveband. This enables a station to transmit information, e.g. its name or the alternative frequencies on which it can also be received.

RDS Diversity (Updating the alternative frequency list AF)

The radio is also fitted with the RDS frequency diversity system, in order to carry out the changeover to alternative frequencies quickly and inaudibly. The VHF receiver consists of the audio receiver and the background receiver. The audio receiver receives the strongest signal transmitted by a station which is identified as the best by the background receiver on the basis of the available alternative frequencies, and constantly updated.

Switching the RDS function off

Press FRQ button.

When switched off only the frequency and the station button number appear. No alternative frequency selection is carried out. The radio is in fixed mode.

Switching the RDS function on

Press RDS button.

When switched on the display shows the station name or, if this could not be identified, the "RDS" abbreviation followed by the selected frequency.



FM1	RP	ST	TP
101.8 MHz			
AM	RDS	FRQ	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FM1	RP	ST	TP
RDS 101.8			
AM	RDS	FRQ	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Automatic station search



AUDIO 30 with RDS

RDS mode:



Press the  or  button. All identifiable RDS programmes will be sought in ascending or descending alphabetical order.

AUDIO 30 with RDS / AUDIO 30 without RDS

FIX mode:

Press the  or  button. All receivable stations will be sought in ascending or descending order.







Manual tuning

Press either the  or  button. Step-by-step tuning in ascending or descending order of frequency will take place.

First, three tuning steps will take place without muting. The radio will then be muted and high-speed tuning will take place until the button is released. The following tuning intervals will be shown on the display:

100	kHz	for FM
9	kHz	for MW
3	kHz	for LW
5	kHz	for SW

Scanning

Press either the  or  button until the SC abbreviation appears on the display. Each receivable station on the waveband selected will be tuned briefly. The first scan will tune only the stations with a high signal strength. The second scan will tune every receivable station. By pressing the , ,  or  buttons the scan is stopped.

FM1	RP	ST	TP
	SDR	1	SC
FM	REG	PTY	

Station memory

10 stations can be stored in each of the four wavebands (FM fixed mode, MW, SW, LW) via the station buttons 1-0.

Storing stations

Hold the station button down for longer than 2 seconds. The currently heard frequency and/or the relevant programme information is stored on the selected station button. The storage procedure is confirmed by a short signal tone.

Retrieving a station from memory

Press the desired station button.

AUDIO 30 with RDS

If an RDS station was stored with all RDS information in the station memory, but cannot be identified during retrieval, the "RDS" abbreviation is displayed followed by the frequency.

FM1			
RDS	98.4		
AM	RDS	FRQ	

Direct frequency input

Select the waveband. Press the ***+** button and enter the desired frequency using the station buttons 1-0. Frequencies outside of the frequency ranges will not be accepted. The frequency input mode is terminated if no button is pressed within 4 seconds.

FM1
9 _ . _
AM RDS FRQ

Regional mode

AUDIO 30 with RDS

Certain RDS stations broadcast regional programmes. Such programmes are identified by the additional abbreviation “RP” on the display. If regional mode is switched on, the frequency diversity function is restricted to the broadcasting range of the regional station.

If the regional mode is switched off the frequency diversity function is now inter-regional. It can therefore happen that a changeover is made between regional stations by this function. To prevent this the radio must be set to regional or fixed mode.

Note: The “RP” abbreviation does not indicate whether the selected regional setting is REG ON or REG OFF:

FM1	RP	ST	TP
RDS	98.4		
AM	RDS	FRQ	

Switching regional mode on and off

In the FM range select the RDS menu by pressing the **RDS** button. Press the RG button and the currently selected status is displayed for approx. 4 seconds. By pressing once more within this time the regional mode “REG ON” or “REG OFF” can be selected.

FM1	RP	ST	TP
RDS	MENU		
FM	REG	PTY	

PTY - Programme Type

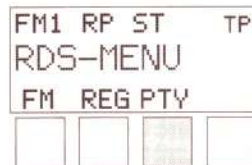
AUDIO 30 with RDS

The PTY code is transmitted by the RDS station on condition that this function is available to the station facility. This code enables the programme type of the selected station to be displayed. The following PTY displays are possible:



NEWS	News services	WEATHER	Weather reports
AFFAIRS	Politics and current affairs	FINANCE	Financial information
INFO	Special information	CHILDPRG	Children's programme
SPORT	Sports	SOCIAL	Social reports
EDUCATE	Learning and education	RELIGION	Religious and ethical reports
DRAMA	Drama and literature	PHONEIN	Interviews
CULTURE	Culture, church and society	TRAVEL	Travel reports
SCIENCE	Scientific reports	LEISURE	Leisure reports
VARIED	Spoken entertainment	JAZZ	Jazz music
POP M	Pop music	COUNTRY	Country music
ROCK M	Rock music	NATIONAL	National folk music
M.O.R. M	Middle-of-the road music	OLDIES	Oldies
LIGHT M	Light music	FOLK	Folk music
CLASSICS	Classical music	DOCUMENT	Documentaries
OTHER M	Other music programmes	NO PTY	No PTY

PTY function display/search

Select the RDS menu in FM range by pressing the **RDS** button. Press the PTY button. The selected station is displayed together with the programme type. NO PTY appears on the display if the station is not transmitting any PTY data.



Using the arrow buttons you can select the list of the PTY codes currently being transmitted by the stations.

If several stations with the same PTY codes are receivable, further stations can be selected using the double arrow buttons. In this setting the search buttons  or  can also be used for selection.

The PTY function menu is exited if no button is pressed for 8 seconds.

Traffic programme (TP)

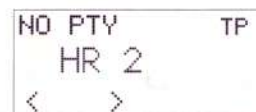
AUDIO 30 with RDS

The background traffic programme is adjusted automatically according to certain priorities. The first priority is the traffic news station being listened to, the second priority a traffic news station from the chain of programmes being listened to, and the third priority is the strongest currently available traffic news station signal.

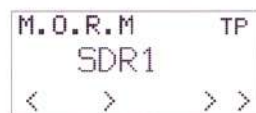
If a station broadcasting traffic news is selected, "TP" (= traffic programme) will be displayed.

The treble and bass values can be set to desired levels during traffic news and are automatically stored for the next traffic bulletins. The volume is raised automatically by a pre-defined volume level.

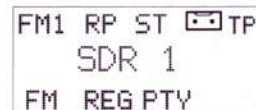
The activated traffic news function is shown by a negative "TP" in the display when in cassette or CD mode.



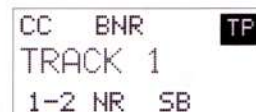
NO PTY TP
HR 2
< >



M.O.R.M TP
SDR1
< > >>



FM1 RP ST TP
SDR 1
FM REG PTY





CC BNR TP
TRACK 1
1-2 NR SB

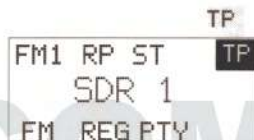
Switching background traffic information on and off

If the background traffic information programme is switched on, then a traffic bulletin will interrupt the current programme, irrespective of which waveband has been selected or if cassette or CD mode is active.

The audio receiver is switched to reception reproduction, whereas the traffic programme receiver is permanently set to traffic news reception. The background traffic programme is set to ready in all operating modes.

Switching off: Hold down the  button for longer than 2 seconds. The "TP" display switches from negative to positive. No traffic bulletin is relayed.

Switching on: Hold down the  button for longer than 2 seconds. The "TP" display changes from positive to negative.

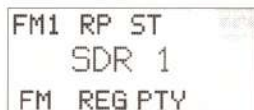


Switching muting on and off


To switch on: Press the  button. The LED will light up.

The radio is switched to relay traffic news bulletins. If the station's transmission area is left, a new traffic news station will be sought automatically. If no traffic news station is receivable, muting will be suspended within three minutes. The negative "TP" will disappear from the display.

To switch off: Press the  button again or when switching off the radio.



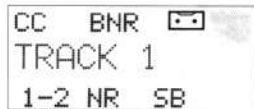
Interrupting traffic news bulletins

A traffic news bulletin can be interrupted by pressing the  muting button. The radio will revert to the mode previously selected or to the mute status. The next traffic bulletin will be relayed.

If no bulletins are to be relayed during cassette or CD mode, then the mute button must be held down until the negative "TP" display goes out.


Telephone muting



If a car phone is installed and its muting switch is connected to the car radio, the radio will be muted when the telephone is used. The radio cannot be operated when mute.




Cassette mode


Playing cassettes

Select CC mode to insert or remove a cassette. When the  eject button is pressed the display folds down and the cassette slot becomes visible. Push the cassette into the slot until it engages, then tap it gently. The cassette will be pulled in automatically. The radio will switch to cassette mode. Track 1 will be played and "TRACK 1" displayed. Track 1 means the side of the cassette which is facing upwards. The cassette deck will automatically detect the type of tape and analyse it.

The cassette will not be ejected when the radio is switched off or another mode is selected. When a cassette has been inserted, cassette mode can also be switched on by using the  (AUDIO 30 with RDS) or the  (AUDIO 30 without RDS) changeover button. If no cassette has been inserted, the display will show "NO CC".

CC	BNR	
TRACK 1		
1-2	NR	SB

Cassette ejection

Press the eject button . The cassette will be ejected. Then the display must be folded back up manually. The radio will switch back to radio mode automatically. Note: The cassette is not ejected when the radio is switched off.


Note: The cassette will not be ejected when the radio is switched off.


Track selection

Press the track selection button 1-2. The current track will be displayed as "TRACK 1" or "TRACK 2". The track will be changed automatically at the end of the tape.

CC	BNR		
TRACK 1			
1-2	NR	SB	
			


Track search forwards/backwards

Press the  button. "MS FF" will be shown on the display and the track search will run the tape forwards to the start of the next track

Press the  button. "MS REV" will be shown on the display and the track search will run the tape backwards to the start of the track currently playing.. Track search can be interrupted by pressing the same button again.

Note: The beginning of a track can only be located if there is a break of at least 4 seconds between tracks.

Fast forward/Reverse






Press the  button. "FF" will appear on the display and fast forward will start.

Press the  button. "REV" will appear on the display and fast reverse will start.

Fast forward/Reverse is stopped by pressing the same button again.

The track will be changed automatically at the end or beginning of the tape and cassette play mode selected.

Scanning

Hold the  button down for longer than 2 seconds. Each track on the cassette will be played briefly, in ascending order. The search will be interrupted at the track in question if the , ,  or  button is pressed.

CC	BNR	TP
MS	FF	
1-2	NR	SB

CC	BNR	TP
MS	REV	
1-2	NR	SB

CC	BNR	TP
FF		
1-2	NR	SB

CC	BNR	TP
REV		
1-2	NR	SB

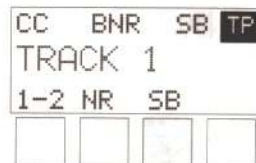
CC	BNR	TP
MS	FF	SC
1-2	NR	SB

Skip blank function

Press the SB button to switch the Skip Blank function on and off.

If no signal is detected for 10 to 15 seconds, the tape will automatically be wound on to the next signal.

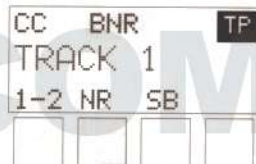
The search process will also be continued if the end of the tape has been reached and the track changed.



Dolby NR (noise reduction system)

To enable optimum reproduction of cassettes recorded using the Dolby B or C NR system, press the NR button repeatedly until the appropriate Dolby type appears. "BNR" or "CNR" will be shown on the display.

If cassettes are being played which were not recorded using the Dolby B or C NR system, then press the NR button repeatedly until the Dolby NR display disappears.



CD Mode

General notes on CD mode

Should excessive temperatures occur in CD mode, "TEMP ^" will appear on the display and muting will take place. The radio will then switch back into radio mode until the temperature has normalised.

Should temperatures occur in CD mode which are too low, "TEMP v" will be displayed, but reproduction will not be interrupted.

Handle CDs carefully to prevent interference during playback. Avoid fingermarks and dust on CDs. Do not write or stick anything on CDs. Clean CDs from time to time with a commercially-available cleaning cloth. No solvents, anti-static sprays, etc. may be used. Replace the CD in its box after use. Protect CDs from heat and direct sunlight.



Danger of Injury!


The CD changer is a Class 1 laser product. There is a danger of invisible laser radiation if the cover is opened or damaged.

Do not remove the cover. The CD changer does not contain any parts which can be serviced by the user. For safety reasons have any servicing work which may be necessary carried out only by qualified after-sales service staff.

CD changer stand-by

If a CD changer is connected to the radio, it can be operated from the front control panel of the radio. A loaded magazine must be loaded for CD playing.

Loading/emptying the CD magazine

Push the shutter of the changer to the right and press the eject button . The magazine will be ejected.

Take the magazine out. Pull out the CD holder completely and place the CDs in the compartment in the holder, printed side up. Push the holder into the magazine in the direction shown by the arrow. Push the magazine into the CD changer in the direction shown by the arrow.

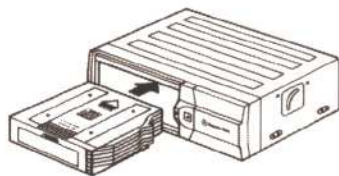
Important! Close the shutter after the magazine has been inserted.

N.B. Wrongly-inserted CDs will not be played.

Playing CDs

Press down the **AUDIO** (AUDIO 30 with RDS) or **CC CD** (AUDIO 30 without RDS) button repeatedly until "CD" is shown on the display. The CD most recently played will start at the point where it was switched off.

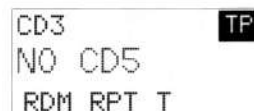
CDs stored in the magazine can be selected by using the station buttons 1-6. The magazine compartment number of the selected CD will then be displayed after "CD". After "TRACK" the number of the track being played will be displayed.



CD 5	TR
TRACK 11	
RDM RPT T	


If there is no CD in the selected magazine compartment (e.g. 5), "NO CD5" and the corresponding compartment number will be displayed.

After the last track on a CD has been played, the next CD will automatically be selected and played.



Skipping tracks forwards/backwards


Press the  button. The next track on the CD will be played.

Press the  button. If the track has been playing for more than 10 seconds, it will revert to the start of this track. If it has been playing for less than ten seconds it will revert to the preceding track.

To skip several tracks, the relative button must be pressed until the desired track is reached. If the beginning or end of the CD is reached during the search, the first or last track will be played.

Fast forward/reverse

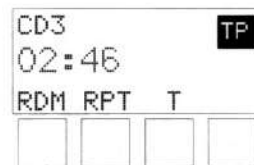
Press the  button and hold it down for audible fast forward.

Press the  button and hold it down for audible reverse.






The search will stop when the button is released. The relative time of the track will be displayed during the search.

The relative time can also be displayed for around 4 seconds during normal playback by pressing the "T" button.

The search will be ended if the beginning or end of the CD is reached.



Scanning

Hold the  button down for longer than 2 seconds. Each track will be played briefly in ascending order. The search will stop at the track in question if the , ,  or  button is pressed.

CD3	TP
TRACK 11	SC
RDM RPT T	





Random play/Repeat function

The tracks of the current CD are played in random order when the Random generator function (RDM) is switched on. Press the RDM button to switch on, and press RDM again to switch off.


When the Repeat function (RPT) has been switched on, a particular track can be played for as many times as desired. Press the RPT button to switch on, and press RPT again to switch off.

Note: Both functions cannot be used simultaneously.

CD3	RPT	TP
TRACK 11		
RDM RPT T		

			
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Direct track selection

Tracks can be selected directly using the buttons 1-0. First of all press  function button, followed by track number entered using the digits 1-0 on the control panel.

Telephone operation

Various functions and operating steps of the car phone can be performed and displayed via the car radio.

Further instructions for operating the car telephone can be found in the operating manual for the car telephone.

Switching the telephone on and off

Switching on: Press the **TEL** button briefly. You will be asked to enter the PIN.

Switching off: Press the **TEL** button until the telephone symbol no longer appears in the display.

Entering the PIN

Enter the PIN using the right-hand control panel and confirm your entry with the OK button. The car telephone goes into standby mode and "IN SERVICE" appears on the display. The display shows "NO SERVICE" if the telephone has not yet logged on.



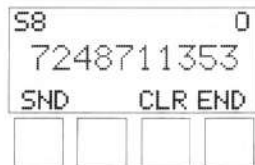
Entering telephone number and starting dialling process

Enter the desired telephone number using the right-hand operating panel. The number can have up to 24 digits, but only 20 of these can be displayed. The dialling process is started by pressing the SND button.





The entered number can be corrected using the CLR number.

Press the CLR button briefly - and the last digit will be deleted.

Press the CLR button longer - and complete number will be deleted.



Calling up phone book

The numbers stored in the phone book of the car telephone can be called up via either name or number entries. The telephone menu must be selected in order to call up the phone book. Press the , ,  or  button for this.

Switching between name search and number search





Press NUM button - Name search

Press ABC button - Number search





S8
MUELLER
SND NUM CLR END

S8 M7	0
7248711353	
SND ABC CLR END	

Searching and selecting phone book entries by name

Press the NUM button. The current name is shown on the display. The stored entries in alphabetical order can be selected using the  or  button. By pressing the  or  buttons the stored entries can be selected according to alphabetical initial letters (e.g. A-Adam, B-Brown, M-Miller).

Searching and selecting phone book entries by number

Press the ABC button. The current number is shown on the display. The stored entries can be selected in numerical order using the  or  button. By pressing the  or  buttons





M8	
S8 M7	0
7248711353	
SND ABC CLR END	

buttons the stored entries can be selected in a 5-pattern (e.g. Entry no. 5, Entry no. 10, etc.).

Starting dialling process

When a number or a name has been selected using the method described above, the dialling process is started by pressing the SND button.





Manual repeat dialling





If the number dialled is engaged, the number can be re-selected by pressing the SND button and the dialling is carried out by renewed pressing of the SND button. The last dialled telephone number is shown on the display. Using the , ,  or  button the numbers stored in the re-dial memory of the telephone can be selected. The abbreviation L and the number in the memory are shown in the top line of the display.

Accepting incoming call in telephone mode

With an incoming call the ringing tone will become audible and the telephone number of the caller is displayed. The message "CALL" appears if the call is being made from an analogue telephone.

M12			
S8	M7		0
7248711353			
SND		CLR END	

S8			0
7248711353			
SND		CLR END	
			

S8	L3		0
7248711353			
SND		CLR END	
			

S8			
CALL			
SND		MUT END	

Accepting incoming call in CC, CD or radio mode

If the telephone is activated in the background (telephone symbol in the display) then a switch is made automatically to telephone when an incoming call is received. The audio source is muted, the ringing tone is audible and the telephone number of the caller is displayed. The message "CALL" appears if the call is being made from an analogue telephone. After the call has been terminated the previously selected audio source is restarted.

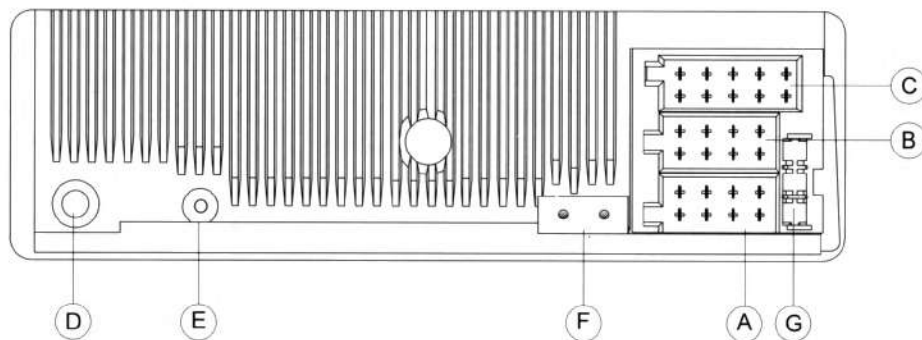


Terminating call

A current call can be terminated by pressing the END button. The radio reverts to the previously active mode.

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Connections



- Ⓐ - 1 Speed-dependent volume control
 - 2 Not used
 - 3 Telephone muting
 - 4 Constant positive (terminal 30)
 - 5 Control output for automatic antenna
 - 6 Lighting (terminal 58)
 - 7 Switched positive (terminal 15)
 - 8 Earth (terminal 31)

- Ⓑ - 1 Rear right-hand loudspeaker +
 - 2 Rear right-hand loudspeaker -
 - 3 Front right-hand loudspeaker +
 - 4 Front right-hand loudspeaker -
 - 5 Front left-hand loudspeaker +
 - 6 Front left-hand loudspeaker -

- 7 Rear left-hand loudspeaker +
 - 8 Rear left-hand loudspeaker -

- Ⓒ - CD connection socket
 - Sound system connection socket

- Ⓓ - Antenna socket

- Ⓔ - Antenna diversity

- Ⓕ - D2B connection

- Ⓖ - Fuse

Remote control

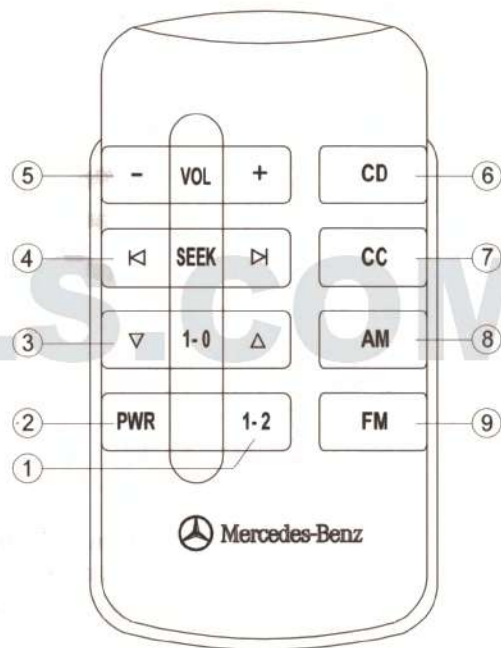
AUDIO 30

The major functions of the radio can be controlled with an infra-red remote control unit.

- 1 Station storage, selection of the CD magazine rack
- 2 Switching on/off, provided that the ignition key is in position 1
- 3 Station memory, selection of CD magazine slot
- 4 Station search, track search CC, CD
- 5 Volume
- 6 Change to CD mode
- 7 Change to cassette mode
- 8 AM waveband
- 9 FM waveband

Inserting batteries in the remote control unit

Please insert the batteries in the remote control unit as shown by the markings (+-). The remote control unit is then ready for use. Do not mix new and used batteries. Only use batteries of the same type.



Dear Listener,

Under current EU directives this radio receiver can be operated by anyone.

This unit meets the requirements of current European or harmonised national standards. Its marking provides you with a guarantee that the specifications for electro-magnetic compatibility which apply to the unit have been observed. This means that your radio is unlikely to interfere with other electrical or electronic equipment, and vice versa.

The relevant marks are:

- The EC mark for marketing in accordance with European Directive 89/336/EEC.



Component malfunctions

The Radio, the CD Changer, the Telephone and the Linguatronic are part of a networked system, and for this reason the failure of one of the components can lead to malfunctions of the other components.

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