## ⚠️ **Important**

Operation of the unit is permitted only if the traffic conditions are suitable and you are absolutely sure that you, your passengers or other motorists are not endangered, obstructed or inconvenienced.In all cases, valid road traffic regulations apply. The destination must only be entered when the vehicle is stationary.The navigation system is intended to serve as a navigation aid only. It neither releases the driver from his duty to drive carefully in road traffic, nor does it take the place of his own ability to make judgement. Due to continual changes in traffic routing or deviations in the data, it may occur that imprecise or erroneous information is given. The actual road signs and traffic regulations must therefore always be observed. Above all, the navigation system is not to be used as an aid to orientation when visibility is poor.

The unit may only be used for its intended purpose. The volume of the radio, navigation system and telephone should be adjusted so that external noise is still audible.

In the case of a malfunction (i.e. smoke or other noticeable odours) the unit is to be turned off immediately.

For safety reasons, the unit is to be opened only by a trained technician. Please refer to your dealer if repairs are necessary.

# Contents

1    Left rotary control ● (INFO)

2    On / off switch (**ON**)

3    DTM button ( **DTM** )

4    Tone button **SOUND**

5    Traffic programme button ( **TP** )

6    CD selection button ( **CD** )

7    Radio selection button ( **RAD** )

8    Navigation selection button ( **NAV** )

9    Eject button for CD ( ⏏ )

10   Right Rotary Control ● (OK)

11   Multifunction buttons

12   Display

# Anti-theft Device

## Entering the Code Number

If the auto radio is disconnected from the electrical supply source, the anti-theft device prevents it from being reconnected. After turning on the unit via the **ON** button, the prompt Enter Code Number is displayed.
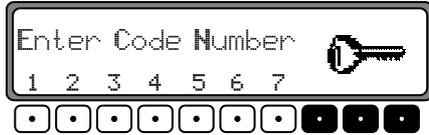


Using the multifunction buttons "1 - 7", the five-digit code number must be entered.

**Example:** Code number 15372 (the code number can be found on the enclosed CODE CARD).

Enter code number using the multifunction buttons.
Once the fifth digit has been entered and all other digits have been entered correctly, the unit switches on automatically.

**Note:** It is important to store the CODE CARD in a safe place outside of the vehicle. Thus, illegal use is not possible. The sticker provided should be attached to the inside of the vehicle windscreen/ window.

If an incorrect code number is entered, the prompt CODE will be displayed once again. If an incorrect code number is entered three times in a row, the unit will display WAIT, and the unit will be blocked for approximately 60 minutes.



Three further incorrect entries will block the unit for another 60 minutes.

**Attention : The waiting time will elapse only when the unit is switched on.**

## Switching On/ Off

Press the **ON** button.
Alternatively, switch on/ off: via the vehicle ignition. To switch the unit on via the ignition, the unit must have previously been turned off via the ignition. After turning off the vehicle ignition, the unit can be kept on by pressing the **ON** button within 3 seconds

**Note:** The unit can also be turned on without the vehicle ignition by pressing the **ON** button, however will shut off automatically after one hour.

## Adjusting Volume

Turn left rotary control ●. The volume is increased or decreased.

## Activate Tone Adjustment Menu

Press the **SOUND** button. The Tone Adjustment menu is activated. The following functions can be called up: Bas (Bass), Trb (Treble), Fad (Fader), Bal (Balance), Flt (Linear Setting), Sub (Subwoofer) and Ldn (Loudness).

```
FM  Bass 0
BasTrbFadBalFltSubLdn
```

Settings for bass, treble, fader, balance, and loudness for the FM, AM (MW, LW, SW) wavebands, road traffic announcements, navigation announcements, telephone operation, CD, MP3 and CDC/AUX operation are stored separately.

## Adjusting the Bass

Press the **SOUND** button.Then press the multifunction button Bas .

```
FM  Bass 0
BasTrbFadBalFltSubLdn
```

Adjust the bass to the desired level using the right rotary control ●.

## Adjusting the Treble

Press the **SOUND** button. Then press the multifunction button Trb .

```
FM  Treble 0
BasTrbFadBalFltSubLdn
```

Adjust the treble to the desired level using the right rotary control ●.

# General Operation

## Adjusting the Fader

Press the `SOUND` button. Then press the multifunction button `Fad`.

```
FM  Fader  ↓0↑              ▼
                            ⋮⋮⋮
BasTrb Fad Bal Flt Sub Ldn  ▲   ▼
```

Adjust the fader setting to the desired level by pressing the right rotary control ●.

## Adjusting the Balance

Press the `SOUND` button. Then press the multifunction button `Bal`.

```
FM  Balance  ◄0►       ⋯⋯⋯
                            ⋮
BasTrb Fad Bal Flt Sub Ldn  ◄   ►
```

Adjust the balance to the desired level by pressing the right rotary control ●.

## Linear Setting

Press the `SOUND` button briefly.

```
FM  Tone flat?              ⋮⋮⋮
                            ↓
BasTrb Fad Bal Flt Sub Ldn  ⋯⋯⋯↓
```

Press the multifunction button `Flt` briefly - Tone flat will be displayed. By pressing the multifunction button `Flt` again, the tone adjustments for the current signal source (i.e. FM) will be reset to mid-level.

## Loudness On/ Off

Press the `SOUND` button then press the multifunction button `Ldn`.

```
FM  Loudness ON
                            ⟨⟨ ⟩⟩
BasTrb Fad Bal Flt Sub Ldn
```

Using the multifunction button `Ldn` either Loudness On (ON) or Loudness Off (OFF) can be selected.
In the MW, LW and SW wavebands, Loudness is switched off.

## Adjusting the Volume of the Subwoofer or Centre Speaker

Press the **SOUND** button. Then press the multifunction button `Sub`.

```
FM  Subwoofer 0
BasTrbFadBalFlt Sub Ldn
```

Using the right rotary control ●, adjust the subwoofer volume setting to the desired level.

# Navigation Operation

## What is Navigation?

The term "navigation" (lat. navigare = to travel by sea) is generally understood to mean the location of a vehicle, the determination of the direction and distance from the desired destination and the required route. As navigation aids, stars, prominent landmarks, compass and satellites are used.

With OnlinePro, location is determined by the GPS receiver (GPS = Global Positioning System). The direction and distance from the destination is determined using a digital street map, a navigation computer and sensors. A speedometer and reverse signal are additionally used to calculate the route.

For safety reasons, route guidance follows predominantly in spoken form supported by a direction indicator on the display.

## Safety Instructions

- The requirements of the Road Traffic Regulations (RTR) apply.
- Observation of traffic signs and local traffic regulations always takes priority
- Traffic guidance is restricted to passenger vehicles. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not taken into account.
- The destination must only be entered when the vehicle is stationary.

## Digitised Area

The navigation CD provided contains a digitised street map. Motorways, federal and regional roads, as well as district roads are detailed in this street map. Larger cities and communities are completely covered. The regional and unclassified roads or access roads and the town centre for smaller towns and boroughs are included.

One-way streets, pedestrian zones, turning bans and other traffic regulations are taken into account as far as possible. There may be discrepancies between the data on the navigation CD and the actual local situation, due to permanent changes to road systems and their traffic regulations.

## General Instructions

- During route navigation, radio, CD or MP3 will still be heard.
  Distance to the next message and expected time of arrival are shown on the right side of the display.

- The unit can be switched to radio mode when route guidance is in operation by pressing the `RAD` button. The unit is switched to CD mode by pressing the `CD` button.
  The Navigation menu is automatically displayed when navigation announcements are given.

- When entering the address, only those letters, digits and symbols which are relevant for the address are displayed. The entries are automatically completed.
  An empty space (i.e. in Bad Abbach) must be entered with an underscore.
  Letters, numbers and symbols can be selected using the multifunction buttons `1` to `9`. The individual symbols can be selected by pressing the relevant multifunction buttons repeatedly.
  Selection can also be made using the right rotary control ●, as described later in this guide.

- `NAV` exits the current menu and switches to the previous menu.

- The route is recalculated by the system if a deviation is made from the route.

- Briefly press the left rotary control ● to hear the current navigation message.

- During a navigation message, the volume can be adjusted by pressing the left rotary control ●, and the tone by pushing the `SOUND` button for more than 2 seconds (see page 75).

- By briefly pressing the left rotary control ●, additional information can be requested during route guidance or the current position can be requested when route guidance is not active. See "Information during Route Guidance" on page 95.

- The current navigation announcement is interrupted by pressing the left rotary control ●.

- If the left rotary control ● is held for more than 2 seconds during a navigation message, the navigation messages are turned off and route guidance takes place by way of the display only.
  Quickly pressing the left rotary control ● turns the navigation messages back on.

- The scroll marks ▲ and ▼ indicate a selection list which can be scrolled through using the right rotary control ●. Each entry in the list shown in capital letters can be selected by pressing the right rotary control ●.

# Navigation Operation

## Selecting Navigation

Press the `NAV` button.

```
NAVIAGTION IS BEING ACTIVATED
       PLEASE OBSERVE RTR
```
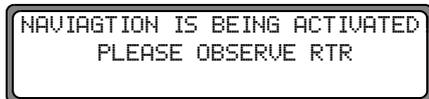
The main navigation menu appears after this display.

**Note:** The navigation CD must be loaded when starting navigation mode for the first time. If calibration of the navigation system has not yet been completed, the system will prompt you to take a drive for calibration (see Installation Guide).
A navigation CD containing the data for the target country is required for navigation operations.
The navigation CD must be inserted to start calculation of a route. During calculation, the prompt CD will blink in the display. Once calculation is completed, the prompt CD will disappear, the navigation CD can be removed and an audio CD can be inserted.
When entering destinations, driving off should be delayed until the prompt CD disappears.

## Main Navigation Menu

```
DEST. MEMORY      ▲
DESTINATION
P.O.I.            ▼
```

Selection can be made from
    DESTINATION,
    DEST. MEMORY,
    P.O.I.,
    LAST DESTINATIONS,
by turning, and pressing the right rotary control ●.

- DESTINATION
  Accesses the entry menu for the destination.
  See "Entering Destination" on page 81.

- DESTINATION MEMORY
  Contains destinations that were previously stored.
  See "Destination Memory" on page 97.

- P.O.I.
  Menu for selecting regional and interregional destinations of special interest and local points of interest. POIs are for example petrol stations, airports or hospitals. See "P.O.I. (Points of Interest)" on page 98.

• LAST DESTINATIONS
A list of the last 50 destinations driven to is displayed. With the right rotary control ●, the desired destination can be selected. By pressing the left rotary control ●, information on the destination can be called up before confirming by pressing the right rotary control ●. Stopovers are not stored as last destinations.

## Entering Destination

In the Main Navigation menu, select DESTINATION with the right rotary control ● and press to confirm.

### Selecting Country



If your destination is in a country other than the one currently shown, select COUNTRY with the right rotary control ● and press to confirm.



Select the desired country with the right rotary control ● and press to confirm.

**Note:** When selecting a distant destination, we recommend selecting a stopover (page 90) halfway.

# Navigation Operation

## Entering Destination

```
GREAT BRITAIN      ▲
EDINBURGH      ▶▶▶▶▶▶
ROAD               ▼
```

The last location entered is displayed.

If you wish to select a destination within the area shown, you can immediately select ROAD or CENTRE.

If your destination lies in another area, select location with the right rotary control ● and press to confirm.
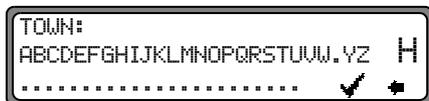
```
TOWN:
ABCDEFGHIJKLMNOPQRSTUVW.YZ   H
.....................  ✔ ◆
```

Select the letters one after the other by turning the right rotary control ● and press to confirm. The enlarged selected letter appears at the right of the display.

With the multifunction button   ◆   , the last letter confirmed is deleted.

The complete entry can be deleted by pressing the multifunction button   ◆   for more than 2 seconds.

```
TOWN: LONDEN
...D..G....LM.............   M
.....................  ✔ ◆
```

Letters that have already been entered are displayed inversely. For the purpose of support, the name of the location closest to the previous entry is displayed. The unit offers only the possible remaining letters for selection. If no other entries are available, the unit completes the place-name automatically.

To accept the entry, press and hold the right rotary control ● for more than 2 seconds or select the small tick ✔ and briefly press the right rotary control ●.

If the complete location name has been entered or completed automatically; i.e. the location entered exists only once in the country of destination, the unit will switch automatically to either the place selection list or the Road/ Centre entry.

If there are no streets or only the centre is available for a particular town, the unit will switch directly to the Route menu.

If an incomplete location entry was confirmed, the place selection list is displayed.

```
LONDESBOROUGH        ▲
LONDON
LONDON APPRENTICE    ▼
```

The name closest to the entry appears in capital letters in the place-distinguishing list.

The scroll marks indicate that other locations in alphabetical order can be selected.

A selection can be made by turning the right rotary control ● and pressing to confirm. (See "General Instructions" on page 79.)

If a definite entry is given, the switches to the Road/ Centre Entry. If there are no streets or only the centre is available for a particular town, the unit will switch directly to the Route menu.

If the selection is unclear or ambiguous, the place-distinguishing list is shown.

```
LONDESBOROUGH        ▲
LONDON
LONDON APPRENTICE    ▼
```

Select the desired destination using the right rotary control ● and press to confirm.

The program returns to the Road or Centre Entry.

If there are no streets or only the centre is available for a particular town, the unit will switch directly to the Route menu.

**Entering Destination Road**

```
ROAD
CENTRE          ▼
```

Select ROAD with the right rotary control ● and press to confirm.

```
ROAD:
ABCDEFGHIJKLMNOPQRSTUVW.YZ   H
...........4...........  ✓  ←
```

Select the letters one after the other by turning the right rotary control ● and press to confirm. The selected letter appears enlarged at the right of the display.

With the multifunction button  ←  , the last letter confirmed is deleted.

The complete entry can be deleted by pressing the multifunction button  ←  for more than 2 seconds.

```
ROAD: ABERDARE GARDENS
A...E.........O..........   E
.....................  ✓  ←
```

Letters that have already been entered are displayed inversely. For the purpose of support, the existing entry is displayed at the next road to be reached. The unit offers only the possible remaining letters for selection.

## Navigation Operation

If no other entries are available, the unit completes the road-name.

To accept the entry, press and hold the right rotary control ● for more than 2 seconds or select the small tick ✔ and briefly press the right rotary control ●.
If the street name was entered completely or automatically completed, the program switches to either road-distinguishing list (same street name exists more than once in the location selected) or returns to the Route menu.

If an incomplete location entry was confirmed, the road selection list is displayed.

```
ABERDEN PLACE          ▲
ABERDEN ROAD
ABERDEN TERRACE        ▼
```

The road nearest to the entry appears in capital letters in the road selection list.
The scroll marks indicate that other streets in alphabetical order can be selected.
Select the road by turning the right rotary control ● and press to confirm.

If a definite entry is given, the program returns to the Route menu.
If entry is unclear (same street exists more than once in the same location), the street distinguishing list is shown.

```
IN NW 10
IN N 18                ▼
```
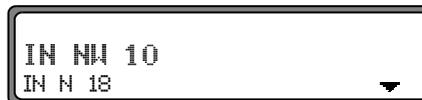
Select the required place using the right rotary control ● and press to confirm.
Program switches to the Route menu.

**Entering the Destination Centre**

```
CENTRE          ▲
ROAD            ▼        ◎
```

With the right rotary control ●, select CENTRE and press to confirm.
If the previously selected location has only one centre, the program immediately switches to the Route menu.
If the number of centres is less than 10, the centre list is displayed.

```
ABBY WOOD
ACTON                  ▼
```

Select the centre by turning the right rotary control ● and press to confirm.

If the number of centres is greater than 9, the program switches to centre entry.

```
CENTRE:
ABCDEFGHI.KLMNOP.RSTUVW...    H
....................    ✔ ◄
```

Select the letters one after the other by turning the right rotary control ⬤ and press to confirm. The selected letter appears enlarged at the right of the display.

With the multifunction button ◄ , the last letter confirmed is deleted.
The complete entry can be deleted by pressing the multifunction button ◄ for more than 2 seconds.

```
CENTRE: KIDBROOKE
...D.......L.N............    L
....................    ✔ ◄
```

Letters that have already been entered are displayed inversely. For the purpose of support, the existing entry is displayed at the next centre to be reached. The unit offers only the possible remaining letters for selection. If no other entries are available, the unit completes the centre-name.

To accept the entry, press and hold the right rotary control ⬤ for more than 2 seconds or select the small tick ✔ and briefly press the right rotary control ⬤.

Once the complete centre name is entered or automatically completed, the program switches to the Route menu.
If the selection is not clear, the program switches to the Centre list.

```
KIDBROOKE
KILBURN              ▼
```

The centre nearest to the entry appears in capital letters in the centre list.
The scroll marks indicate that other centres in alphabetical order can be selected.
Select the centre by turning the right rotary control ⬤ and press to confirm.
Program switches to the Route menu.

**Note:** By pressing the right rotary control ⬤ for more than 2 seconds without previously entering a letter, a list of the possible location centres will immediately appear.

# Navigation Operation

## Route Menu

```
SAVE DESTINATION
START-FAST R.
HOUSE NO.
```

Selection can be made from
> SAVE DESTINATION,
> START-FAST R.,(START-SHORT R.
> or START-DYN. R.)
> HOUSE NO.,
> CROSSING
> ROUTE SETTINGS

by turning, and pressing the right rotary control ●.

- SAVE DESTINATION
  Accesses the entry menu for the destination memory (page 88).
- START-FAST R.,START-SHORT R.
  or START-DYN. R.
  Starts Navigation. Simultaneously, a prompt appears indicating the currently selected route option (-SHORT R. for shortest route, -FAST R. for fastest route and -DYN. R. for Dynamic Route)
- HOUSE NO.
  The house number in the specified destination road can be entered here.
  This function is only possible if the information is contained on the Navigation CD

- CROSSING
  Here a cross-street can be entered as a destination.
  This function is only possible if the information is contained on the Navigation CD
- ROUTE SETTINGS
  Here criteria such as Fast Route, Short Route, Dynamic Route, Motorways, Ferries and Tolls can be selected.

**Entering House Number in the Destination Road**
In the Route menu, select with the right rotary control ●
HOUSE NO. and press to confirm.

```
HOUSE NUMBER: (1 - 38)
........................ 5
... 0123456789...... ✓
```
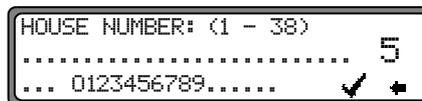
Enter the house number of the street destination with the right rotary control ● and confirm the entry by pressing the right rotary control for more than 2 seconds, or confirm by selecting the small tick ✓ and briefly pressing the right rotary control ●.
Due to system configurations, route guidance will only be given in the area of the entered house number.

```
SAVE DESTINATION
START-FAST R.
ROUTE SETTINGS
```

Selecting START- starts the navigation.
Selecting SAVE DESTINATION leads to the Destination Memory menu.
The selection ROUTE SETTINGS allows you to choose the Route settings.
Select by turning the right rotary control ● and press to confirm selection.

**Selecting an Intersection on Destination Road**
In the Route menu, select CROSSING with the right rotary control ● and press to confirm.

```
EDINBURGH ROAD
GLASGOW ROAD                    ▼
```

Select the intersection for the destination road by turning the right rotary control ● and press to confirm.

```
SAVE DESTINATION  ▲
START-FAST R.
ROUTE SETTINGS    ▼
```

Selecting START- starts the navigation.
Selecting SAVE DESTINATION leads to the Destination Memory menu.
The selection ROUTE SETTINGS allows you to choose the Route settings.
Select by turning the right rotary control ● and press to confirm selection.

**Adjusting Route Settings**
Select house number area by turning the right rotary control ●
 ROUTE SETTINGS and press to confirm.

```
SHORT ROUTE      ▲
DYNAM. ROUTE
FAST ROUTE       ▼
```

- FAST ROUTE
  This selection calculates the shortest possible journey time.

- SHORT ROUTE
  This selection calculates the shortest possible distance to the destination.

  **Note:** For larger cities or urban areas, the setting "SHORT ROUTE" is recommended.

- DYNAM. ROUTE
  Dynamic route guidance is used to calculate the route, taking current traffic announcements into account.

**Note:** Can only be selected when TMC is active. "Switching TMC On/ Off" on page 118
When Dynamic Route navigation is active, the route is calculated using the "FAST ROUTE" setting

# Navigation Operation

Further information under "Dynamic Route Guidance" on page 106.

- RESTRICTIONS
  Provides options for avoiding bridges, ferries, tunnels or toll roads

```
┌─────────────────────────────────────┐
│ MOTORWAY       WITH / WITHOUT        │
│ FERRIES        WITH / WITHOUT        │
│ TOLL           WITH / WITHOUT        │
└─────────────────────────────────────┘
```

A selection can be made by turning the right rotary control, and settings can be changed by pressing the right rotary control ●.
Pressing the control for more than 2 seconds accepts all the settings and exits the menu.

**Note:** Routes without motorways can only be calculated within a radius of approximately 200km.

## Entering a Destination in the Destination Memory

It is not mandatory for navigation to store a destinations in the destination memory. It saves repeated manual entry, if the destination occurs again at a later date.
In the Route menu, select SAVE DESTINATION by turning the right rotary control ● and press to confirm.

```
┌─────────────────────────────────────┐
│ NAME:                               │
│ ABCDEFGHIJKLMNOPQRSTUVWXYZ   H      │
│ ÆØÅÄÖÜ 0123456789,/() . ✔ ←         │
└─────────────────────────────────────┘
```

A name of your choice consisting of up to 14 characters can be entered for the specified destination, and is stored automatically in the destination memory by pressing the right rotary control ● for more than 2 seconds. See "Destination Memory" on page 97.
The destination can also be stored by selecting the small tick ✔ and briefly pressing the right rotary control ●.
 Should you not wish to enter a name, press and hold the right rotary control ● for more than 2 seconds and the destination will be entered in the Destination Memory without a name.
The last destination entered can be filed into any desired position in the Destination Memory by turning the right rotary control ●. The memory position is confirmed by briefly pressing the right rotary control ●.
A total of 50 destinations can be stored

```
NEW DESTINATION   ▲
START-FAST R.
ROUTE SETTINGS    ▼
```

To complete storage in the Destination Memory, navigation must be started, or a new destination entered by selecting NEW DESTINATION.

## Route Guidance Calculation

```
              CD
MAINSTREET        ▶ CALC:
                    ROUTE
```

The message "Calculating route" indicates that the distance is being calculated, which may take several seconds.
After the first route guidance announcement, the prompt CD will continue to blink on the display until the route has been completely calculated. When a distant destination is entered, it is recommend to wait until CD has stopped blinking before driving away.

**Deleting a Destination from the Destination Memory**
Select Destination Memory (see page 97).

```
                         ▲
AUNT MARY, MUNICH,    DEL
BUSINESS STUTTGART, STUTTGA  ▼
```
● ● ● ● ● ● ● ● ● ·

Select the destination to be deleted with the right rotary control ● and press the multifunction button  DEL .

## Recalculating Route

```
MAINSTREET        ↑   NEW
                      ROUTE
```

If the current route is not followed due to road blocks, diversions, unintentionally driving in the wrong direction or failing to observe the recommendations, the system immediately calculates a new route. During this re-calculation, NEW ROUTE is displayed.

**Destination Memory Full**

```
    DESTINATION MEMORY FULL
         DELETE = OK
         BACK = NAV
```

Appears when the Destination Memory is full.
Select either DELETE (switches to Destination Memory to delete a destination) or BACK (Cancels storage of destination).

# Navigation Operation

## Stopover

Stopover offers the possibility of entering a stopover destination during the active route guidance.

### Entering a Stopover

```
          ↑   5.0
MAINSTREET     KM
🐾🐦▤ ⚝       10:23
```
```
• ▫ • • • • • • • • •
```

Press the multifunction button ⛗.

```
DESTINATION      ▴
P.O.I.           ▪
DESTINATION MEMORY
```

Using the right rotary control ●, make a selection and press to confirm.

- DESTINATION MEMORY
  (see page 97) Select a stopover from the destination memory.

- DESTINATION
  (see page 81) allows entry of a stopover with the precise specification of the address.

- P.O.I.
  (see page 98) allows selection of special destinations (Points of Interest) as a stopover via LOCAL AREA, NEAR DESTINATION and TOWN/COUNTRY; such as petrol stations or airports.

### Start Route Guidance to a Stopover

```
START
```
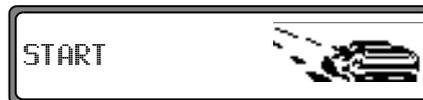
To start route guidance to the stopover, press the right rotary control ●.
The route is calculated and route guidance begins.

**Note:** During route guidance to a stopover, ⛗ is displayed inversely.

## Deleting a Stopover

```
                          5.0
                           KM
MAINSTREET
                         10:23
```

Press the multifunction button [icon].

```
      DELETE STOPOVER?
         BACK = NAV
```
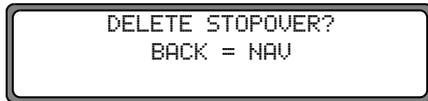
To delete the stopover, press the right rotary control ● within 8 seconds.

## Reaching Stopover

```
YOU HAVE REACHED YOUR STOPOVER
```
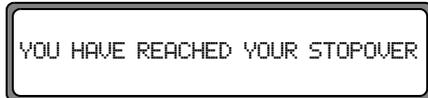
After the message YOU HAVE REACHED YOUR STOPOVER, route guidance to the main destination is started automatically.

## Traffic Jam (Block) Function

This function allows you to block the approaching route sections as of the next junction and calculate a detour route when a traffic jam or road block is directly ahead.

### Entering Length of Traffic Jam

```
                          5.0
                           KM
MAINSTREET
                         10:23
```

Press the multifunction button [icon].

```
        SECTION
      TO BE AVOIDED
         0.6 KM
```
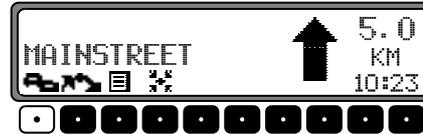
Using the right rotary control ●, set the length of the traffic jam and press to confirm.

```
                          5.0
                           KM
MAINSTREET
                         10:23
```

In the display, [icon] appears inversely and the route is recalculated.

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# Navigation Operation

### Delete Block

```
                          5.0
MAINSTREET                 KM
▯▱▱▯▤ ▨               10:23
```
⊙ ▮ ▮ ⊙ ▮ ⊙ ▮ ⊙ ▮ ⊙ ▮ ⊙ ▮

Press the multifunction button 🚗.

```
          DELETE BLOCK?
           BACK = NAV
```

To delete a block, press the right rotary control ● within 8 seconds.

## Cancelling Route Guidance

Press the **NAV** button.

```
          NAVIGATION
          DELETE = OK
          BACK = NAV
```

The route guidance is cancelled when the right rotary control ● is pressed within 8 seconds.

Otherwise route guidance will continue.

## Notes on Route Guidance

After entering the destination (address), the system calculates the route and announces:
"Ready to drive off".
The driving recommendations are given via voice messages and displays on the screen.
By pressing the left rotary control ● the current driving recommendation can be heard again.
If the route to be travelled is not clear, e.g. at an intersection where a change in direction is not specified, the direction of travel can be displayed by pressing the right rotary control ●.

```
MAINSTREET            ▶ WAY
▯▱▱▯▤ ▨                ROUTE
```

Please follow the direction indicated by the arrow.
The display appears for 8 seconds after pressing the right rotary control ●.

⚠ **Accident hazard.**
**If a driving recommendation contradicts the applicable Road Traffic Regulations (RTR), the RTR are always valid.**

For clarification, there follows a selection of examples of possible driving recommendations:

• "Please perform a U-turn if possible".

```
▶MAINSTREET
MAINSTREET
🔌🛣📑 ⚡
```

You are driving in the wrong direction and should turn back at the earliest opportunity.

• "Please turn right after 300 metres".

```
▶STATIONSTREET
MAINSTREET
🔌🛣📑 ⚡
```

The arrow indicator ▶ points to the next street into which you should turn.
The progress bar on the right illustrates the distance and the black part decreases as you approach the intersection.

• "Please follow the road".

```
MAINSTREET                 5.0
                            KM
🔌🛣📑 ⚡               10:23
```

This display tells you that you should continue to follow the road you are on.

• "Prepare to turn left" or
"Please merge into left lane".

```
MAINSTREET                 2.0
                            KM
🔌🛣📑 ⚡               10:23
```

This recommendation prepares you for the next turning to be taken.
"Please merge into left lane" does not mean however that you should immediately get into the left turn lane.

**Note:** At intersections and roundabouts, only the ends of the roads that are being passed are displayed.

# Navigation Operation

- "Please leave the roundabout at the third exit on the right".

```
MAINSTREET
```

This display shows you which exit (marked with the arrow) you must take at the roundabout.

- "Now drive straight ahead".

```
MAINSTREET
```

At this point, you must drive straight ahead.

- "Please follow the direction arrows".

```
                    IIHF
                    ROAD
```

This display tells you that you are currently on a non-digitised street (i.e. parking lot, garage, parking deck) which is not contained in the digitised road map. The arrow indicates the direction of the destination as the crow flies.

- "Keep right after 2 kilometres".

```
MAINSTREET          2.0
                     KM
                    10:23
```

Keep right means that the street will split and that you should follow the corresponding direction of travel.

- "You have reached your destination".

```
MAINSTREET
```

The destination specified has been reached and route guidance is terminated.

## Information during Route Guidance

```
LONDON          DISTANCE
ABERDEN ROAD      500 KM
          MOD   ETA 11:20 🕐
```

Press the left rotary control ⬤.
The destination, the distance and the estimated time of arrival are displayed.

```
LONDON          DISTANCE
ABERDEN ROAD      500 KM
🏁        MOD   ETA 11:20 🕐
⊡ ■ ■ ■ ■ ■ ■ ■ ■ ■
```

If a stopover has been specified, the stopover, the distance and the estimated time of arrival are displayed. The main destination can be displayed via the multifunction button 🏁 .
To return to route guidance, press the left rotary control ⬤ again or wait for 8 seconds.

## Displaying Route Settings

```
LONDON          DISTANCE
ABERDEN ROAD      500 KM
          MOD   ETA 11:20 🕐
■ ■ ■ ■ ⊡ ■ ■ ■ ■ ■
```

During route guidance, press the left rotary control ⬤. Press the multifunction button MOD .

```
MOTORWAY: WITH   ROUTE: FAST
FERRY: WITHOUT
TOLL: WITH
```

The route settings are displayed.
After 8 seconds, the system returns to the route guidance display.

## Requesting Current Time

```
LONDON          DISTANCE
ABERDEN ROAD      500 KM
          MOD   ETA 11:20 🕐
■ ■ ■ ■ ■ ■ ■ ■ ⊡
```

During route guidance, press the left rotary control ⬤.
Press multifunction button 🕐 .

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# Navigation Operation

```
   TIME 12:31
```

The current time is displayed. After 8 seconds, the system returns to the route guidance display.

### Requesting Current Position
During route guidance, the current position can be requested.

```
                          5.0
MAINSTREET                KM
                         10:23
```

Press the multifunction button .

```
LONDON
MAINSTREET
54:49.14E  11:38.34N  350H  SAT 9
```

The current position, with street name (if available), latitude and longitude, elevation above sea level (in 50 m increments) and the number of satellites received will be displayed.
Pressing the right rotary control ● will return to the route guidance display.

If Route Guidance is not activated, call up the Position menu by pressing the left rotary control ●.

```
LONDON
MAINSTREET
54:49.14E  11:38.34N  350H  SAT 9
```

The current position, with street name (if available), latitude and longitude, elevation above sea level (in 50 m increments) and the number of satellites received will be displayed.
Pressing the right rotary control ● or the  NAV  button will exit the Position menu.

## Calling up Street List

During Route guidance, the list of streets for the planned route can be called up.

```
MAINSTREET        5.0
                  KM
                 10:23
```

Press the multifunction button [≣].

```
ANGEL ROAD      POSITION
NORTH CIRCULAR R ▾   20 M
```

The current road and the road names up to the destination are displayed. The route list can be scrolled through by turning the right rotary control ●.

Pressing the right rotary control ● returns you to the route guidance display.

**Note:** After entering the destination, it will take some time until the route list is compiled.

If the vehicle is currently in an "off road" area when the destination is entered, no route list can be compiled until a stored road is reached.

## Destination Memory

Using the right rotary control ●, select DESTINATION MEMORY in the main Navigation menu and press to confirm.

```
LAST DESTINATIONS ▴
DEST. MEMORY
DESTINATION       ▾
```

The destination memory contains personally stored destinations.

Once a destination has been stored, it does not have to be manually re-entered.

```
AUNT GERDA, MUNICH,  DEL
BUSINESS STUTTGART, STUTTGA ▾
```

Select the desired destination using the right rotary control ● and press to confirm.

Then start route guidance.

# Navigation Operation

## P.O.I. (Points of Interest)

Menu for the selection of POIs from a list. POIs are for example petrol stations, airports or hospitals.

```
DESTINATION      ▲
P.O.I.
LAST DESTINATIONS ▼
```

Using the right rotary control ●, select P.O.I. in the Main Navigation menu and press to confirm.

```
LOCAL AREA       ▲
NEAR DESTINATI
TOWN/COUNTRY     ▼
```

Using the right rotary control ●, make a selection and press to confirm.

- P.O.I. LOCAL AREA / NEAR DESTINATION
  POIs in the current local vicinity of the vehicle or in the vicinity of the destination can be selected.

```
ADMINSTRATION
AIRPORT           ▼
```

Select a category using the right rotary control ● and press to confirm.

```
EDNONTON GREEN  1.2 KM↑
WHITE HART LANE  ▼ 1.3 KM↓
```

A list of destinations is shown based on distance. The kilometres shown are the distance (straight-line) between the POI and the current location.

The arrows behind the distance indicate the direction to the particular POI (i.e. ↑ POI is in the direction of travel, or ↓ POI is in the opposite direction of travel).

Select the desired destination with the right rotary control ●.

By pressing the left rotary control ● information on the selected destination is listed (i.e. a hospital).

```
NORTH MILESEX HOSPITAL
N 18 1 LONDON
TEL.: <44>-XXX-XXXXX
```

Confirm selection with the right rotary control ●. The program will then jump to the Route menu.

• P.O.I. TOWN/COUNTRY

POIs can be selected in those countries contained on Navigation CD.

```
GERMANY
TOWN
NATIONWIDE
```

With the right rotary control ●, select from GERMANY (see page 81), TOWN or NATIONWIDE and press to confirm.

Selecting TOWN
POIs can be selected once the town is entered.

```
TOWN:
ABCDEFGHIJKLMNOPQRSTUVW.YZ   H
.....................   ✓ ◆
```

Using the right rotary control ●, enter the name of the town and press to confirm.
Then, select town from the town selection list using the right rotary control ● and confirm once again by pressing.

```
ADMINSTRATION
AIRPORT
```

The POIs for the selected town are displayed.
Select a category using the right rotary control ● and press to confirm.
A list of POIs is displayed or, if there are more than 9 POIs in the list, you will be prompted to enter text

```
MOTORWAY JUNCTION:
....EF...▓...O..........Z   K
.....................   ✓ ◆
```

Enter the POI and confirm. Confirm the POI in the appearing list by pressing the right rotary control ●.
The program will then jump to the Route menu.

**Note:** By pressing the right rotary control ● for more than 2 seconds without selecting a letter, a list of all possible POIs will appear.

# Navigation Operation

Selecting NATIONWIDE

AIRPORT

Select a category using the right rotary control ● and press to confirm.
A list of POIs is displayed or, if there are more than 9 POIs in the list, you will be prompted to enter text

MOTORWAY JUNCTIONS:
....EF....K...O..........Z    K
....................    ✓

Enter the POI and confirm. Confirm the POI in the displayed list by pressing the right rotary control ●.
The program will then jump to the Route menu.

**Note:** By pressing the right rotary control ● for more than 2 seconds without selecting a letter, a list of all possible POIs will appear.

## System Settings
Press the  NAV  button in the Main Navigation menu.
The System Settings menu is called up.

TIME
SAVE POSITION
LANGUAGE

Selection can be made from
    TIME,
    SAVE POSITION,
    LANGUAGE,
    ANIMATION,
    MEASURING UNIT,
    ANNOUNCEMENT ETA,
    ETA CALCULATION
by turning, and pressing the right rotary control ●.

• TIME
  The system's internal clock can be set to the local time.

• SAVE POSITION
  The current position can be saved and stored in the Destination Memory.

• LANGUAGE
  Language setting for the navigation system.

• ANIMATION
  The display animation can be turned on/ off

- MEASURING UNIT
  The unit of measurement can be changed from kilometres/ metres to miles/ yards.
- ANNOUNCEMENT ETA
  Voice announcements for the expected time of arrival (ETA) can be turned on/ off.
- ETA CALCULATION
  Calculation of ETA can be influenced.

## Setting Time

In order to achieve correct navigation on routes with time-dependent traffic guidance, and to calculate the estimated time of arrival, it is necessary to set the GMT time transmitted from satellites to the current time zone.

```
ETA CALCULATION  ▲
TIME
SAVE POSITION    ▼
```

In the System Settings menu, select TIME and confirm.

```
TIME: 11:30PM
    03.03.1999        ❄      ☀
24H +  -  OK
```

With the multifunction button 24H the time can be changed from 24- to 12-hour display.

```
TIME: 11:30PM
    03.03.1999        ❄      ☀
24H +  -  OK
```

The individual entries can be selected by pressing the multifunction buttons + or – , the time will be changed every half-hour.
By pressing the right rotary control ● or the multifunction button OK the set time is accepted.
The program jumps back to the System Settings menu.

## Save Position

```
TIME            ▲
SAVE POSITION
LANGUAGE         ▼
```

Select and confirm SAVE POSITION in the System Settings menu.

```
11:38.34E 54:49.14N
POSITION
SAVE
```
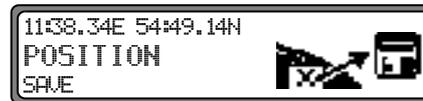
The display will show the co-ordinates (latitude/ longitude) for the current position.
Re-confirm by once again pressing the right rotary control ●.

# Navigation Operation

```
NAME:
ABCDEFGHIJKLMNOPQRSTUVWXYZ  H
ÆØÅÄÖ 0123456789,/() .  ✓  ◄
```

Entering a Name for Position.
Press the right rotary control ● for more than 2 seconds to confirm the name entered. Entry can also be confirmed by the selecting the small tick ✓ and briefly pressing the right rotary control ●.
The Destination Memory is then called up automatically (see page 97).

With the right rotary control ●, select the desired position in the Destination Memory and press to confirm.

## Calling up Position

Call up Destination Memory (see page 97) and select destination with the right rotary control ●.

If the position is outside a digitised area, the driver is guided along the digitised route nearest to the destination. The message "The destination is nearby" will follow. To reach the destination, follow the direction arrows.

## Setting Language

```
SAVE POSITION       ▲
LANGUAGE
ANIMATION           ▼
```

Select and confirm LANGUAGE in the System Settings menu.

```
DEUTSCH
ENGLISH GB          ▼
```

Select the language using the right rotary control ●. The language selection is accepted by pressing the control and the language is installed.
You can choose either a male or a female voice for certain languages

```
FEMALE 1
FEMALE 2            ▼
```

Select the voice using the right rotary control ●. The voice is accepted and installed by pressing the right rotary control.

```
LOADING LANGUAGE
    ENGLISH
```

After the installation, you will be prompted to confirm.

```
LANGUAGE IS LOADED
     PRESS OK
```

Confirm by pressing the right rotary control ⬤.

**Animation**

```
LANGUAGE          ▲
ANIMATION
MEASURING UNIT    ▼
```

Select and confirm ANIMATION in the System Setting menu.

```
ANIMATIONS        ON / OFF
```

By pressing the right rotary control ⬤ selection can be made between Animation ON or OFF.
Setting is confirmed and accepted by pressing and holding the right rotary control ⬤.
The system returns to the System Settings menu.

**Switching Announcement of Arrival Time On/ Off:**

```
MEASURING UNIT    ▲
ANNOUNCEM. ETA
ETA CALCULATION   ▼
```

Select and confirm ANNOUNCEMENT ETA in the System Settings menu.
**ETA** stands for **E**stimated **T**ime of **A**rrival.

```
ANNOUNCEMENT ETA    ON / OFF
```

By pressing the right rotary control ⬤, selection can be made between Announcement ETA ON or OFF.
Setting is confirmed and accepted by pressing and holding the right rotary control ⬤.
The system returns to the System Settings menu.

# Navigation Operation

**Influencing the Calculation of ETA**
Calculation of the ETA can be influenced.

```
ANNOUNCEMENT ETA  ▲
ETA CALCULATIO
TIME              ▼
```

Select and confirm ETA CALCULATION in the System Set-
tings menu.
**ETA** stands for **E**stimated **T**ime of **A**rrival.

```
SPORTY            ▲
NORMAL
LOW-RISK          ▼
```

Selection can be made from
SPORTY,
NORMAL,
LOW-RISK
by turning, and pressing the right rotary control ●.

- SPORTY
  With this setting the unit adjusts ETA for faster drivers.
  An earlier ETA is calculated.

- NORMAL
  This setting is the default setting. It offers sufficiently ac-
  curate calculation of ETA for most drivers.

- LOW-RISK
  With this setting the unit adjusts for drivers who may take
  longer for the planned journey. This setting could be used
  for example in dense traffic areas.

**Selecting Measuring Units**

```
ANIMATION         ▲
MEASURING UNIT
ANNOUNCEMENT ETA  ▼
```

Select and confirm MEASURING UNIT in the System Settings
menu.

```
IMPERIAL
METRIC            ▼
```

Select the measuring unit using the right rotary control ●.
The measuring unit is accepted by pressing the control.
The system returns to the System Settings menu.

**Note:** METRIC stands for calculation in metres.
IMPERIAL stands for calculation in yards.

## DTM Functions

With the DTM function, all traffic announcements and those traffic announcements that pertain to the calculated route are displayed. A route calculator will search for and direct you to fuel stations along the calculated route.

### Calling up DTM Functions

Press the **DTM** button.

```
A7 Schnelsen Nord Quiąborn  ▲
A24 Xiną Eidelstedt         ▼
⚠ i↕ ▐▙▚▟
```

The DTM Menu is displayed.
The received traffic announcements are displayed.

### Calling up Fuel Stations Along the Route

Press the **DTM** button.

```
A7 Schnelsen Nord Quiąborn  ▲
A24 Xiną Eidelstedt         ▼
⚠ i↕ ▐▙▚▟
```

```
▪▪ ▫ ▪ ▪ ▪ ▪ ▪ ▪ ▪ ▪
```

Press the multifunction button ▐▙▚ .

```
BP BLACKBIRD HIL 3.1 KM↓
ELF MERTON ROAD  ▼  3.1 KM↓
```

The fuel stations are listed based on distance. The kilometres shown are the distance (straight-line) between the POI and the current location.
The arrow shown behind the distance indicates the direction of the fuel station (i.e. ↑ fuel station is in the direction of travel, ↓ fuel station is in the opposite direction of travel).
Select the desired fuel station with the right rotary control ● and press to confirm selection ●.

```
START          🚗
```

To start navigation to the fuel station, press the right rotary control ●.
The route is calculated and route guidance begins.

**Note:** For calculating the route or selection of the fuel station, the unit will request the Navigation CD (if Navigation CD is not already inserted).

# DTM - Dynamic Traffic Management

## Call up Duration of Journey and Kilometres Driven

To call up the DTM menu, press the **DTM** button.

```
A7 Schnelsen Nord Quiqborn  ▲
A24 Xinq Eidelstedt         ▼
⚠ i↕ ▦▦▦▦
```

Press the multifunction button ▦▦ .

```
KM:   345      DURATION: 3:20
KM/H: 120
⚠ i↕ ▦▦▦▦
```

The duration of the journey, the kilometres driven and the average speed are displayed. Pressing the right rotary control ● or the **NAV** button will return to the Navigation display.

By pressing the right rotary control ● for more than 2 seconds, the displayed values are reset and the calculation starts again from the beginning.

The information for journey duration, kilometres travelled and the average speed can also be requested as previously described, as long as the destination "flag" is still waving after the destination has been reached.

## Dynamic Route Guidance

**Note:** Dynamic route guidance is not possible in all countries.

When Dynamic Route Guidance is active, the navigation system may request the Navigation CD for possible route calculation (if the Navigation CD is not inserted).

### What is Dynamic Route Guidance?

With Dynamic Route Guidance, the route is calculated taking current traffic announcements into account..

The traffic announcements are transmitted by a TMC radio station in addition to the radio programme and are received and analysed by the navigation system. The reception of traffic announcements is free of charge.

**Note:** As the traffic announcements are transmitted by radio stations, we cannot assume responsibility for the completeness or accuracy of the announcements.

### Dynamic Route Guidance

In the Route menu, Dynamic Route Guidance can be started by selecting START DYN.R.

If dynamic route guidance has been activated, a continuous check is made for the presence of relevant announcements for the selected route. The route is then calculated using the "fast route" option, while taking into account current traffic announcements. If it is determined during these continuous checks that a traffic announcement is of relevance for the rou-

te guidance, the unit will automatically re-calculate a new route to the destination.

NEW ROUTE is shown on the display. In addition, there is a voice announcement "**The route is being recalculated based on current traffic announcements**".

In the DTM Display, ⬍ is shown inversely.

**Note:** If no TMC station can be found, the display will show CURRENTLY TMC RECEPTION IS NOT POSSIBLE. The unit will switch back to the route guidance display after a short time.
If no TMC stations can be found within 10 minutes, CURRENTLY TMC RECEPTION IS NOT POSSIBLE will appear on the display again and a short signal tone will sound.

Your navigation system can receive TMC information, whether a TMC station is selected or not. However, in order to guarantee optimal reception of TMC information, we recommend the selection of a TMC station. You can recognise a TMC station during FM reception by the abbreviation TMC.

**Display Traffic Information**

Current traffic announcements can be displayed in text form. To call up the DTM Menu, press the **DTM** button.



By pressing the multifunction button ⚠, a list of all currently available traffic information will be displayed.

By pressing the multifunction button ⬍, a list of all current traffic information relevant for the calculated route is displayed.

**Note:** If no current traffic information is available, NO TRAFFIC MESSAGES RECEIVED will be displayed.

In the list of current traffic information, more detailed information on the individual announcements can be requested.

# DTM - Dynamic Traffic Management

```
A7 Schnelsen Nord Quigborn ▲
A7 Exit Othmarschen
A24 Xing Eidelstedt        ▼
```

The scroll marks at the right edge of the display indicate that additional traffic information is available.

A selection can be made by turning the right rotary control ● and pressing to confirm.

After confirming the traffic information desired, the information is shown in its entirety. A typical traffic announcement is shown as follows.

- a motorway or road number
- approximate direction information
- detailed location and direction information
- the incident
- the cause, if known
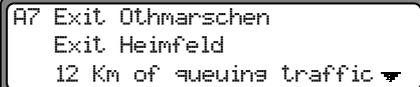
```
A7 Exit Othmarschen
   Exit Heimfeld
   12 Km of queuing traffic ▼
```

Scroll marks on the right side of the display indicate that more than 3 lines are required for the traffic information.

Pressing the **NAV** button returns to the list of the current traffic information.

## Switching on Radio Mode

Press the **RAD** button.
The last selected waveband is set.

## Switching on Radio Menu Mode

Press the **RAD** button in radio mode.

```
FM DAS Seek Name      (+===+)♪
Fm Am PtyDis RegTxt Fil
```

The radio menu mode is switched on and displayed. The unit switches back to radio mode if no button is pressed within the next 8 seconds.

## Selecting FM Waveband

In the Radio Menu Mode, press the multifunction button **Fm** .

```
FM DAS Seek Name      (+===+)♪
Fm Am PtyDis RegTxt Fil
```

The last selected radio station and level are displayed.

By pressing repeatedly, selection can be made between the levels DAS Seek Qual., DAS Seek Name, Stations RDS and Stations Fix.

- DAS Seek Qual. (see also page 134)
- DAS Seek Name (see also page 134)
- Stations RDS (see also page 134)
- Stations Fix (see also page 134)

## Selecting AM Waveband

In the Radio Menu Mode, press the multifunction button **Am** .

```
AM Med. Wave          (+===+)♪
Fm Am As Man
```

The last selected waveband and radio station are set.
To select the MW (Med. Wave), LW (Long Wave) and SW (Short Wave) wavebands, repeatedly press the multifunction button **Am** until the desired waveband is set.

## Settings for Station Selection

The desired station can be selected via dynamic autostore (FM), autostore (MW, LW), station search, scan search, manual tuning, and station buttons.

# Radio Mode

## Dynamic Autostore (FM-DAS)

In the Radio Menu Mode, press the multifunction button `Fm` until `DAS Seek Qual.` or `DAS Seek Name` is displayed.

```
FM DAS Seek Qual.    (┌──┐)♪
Fm Am PtyDis RegTxt
 ⦁ ▪ ▪ ▪ ▪ ▪ ▪ ▪ ▪ ▪ ▪
```

In the `FM DAS` mode, the receivable stations are displayed via the multifunction buttons depending on the settings.

```
SWR4 KA  101.6 TF    ⬆  138
                         KM
AntRdtRegRpr S Swr ->   10:23
 ⦁ ⦁ ⦁ ⦁ ⦁ ⦁ ⦁ ▪ ▪ ▪ ▪
```

The desired station is set by pressing the button directly below the abbreviated station designation. If the selected station broadcasts several programmes/regional programmes, a sub-menu is automatically displayed to select the desired programme.

```
SWR4 KA  101.6 TF    ⬆  138
                         KM
1    3     AntRdt <-    10:23
 ⦁ ▪ ⦁ ▪ ▪ ▪ ▪ ▪ ▪ ▪ ▪
```

If a programme has previously been selected that belongs to the particular station programming chain, the last stored programme entry will be automatically selected.

The multifunction button `->` indicates that, by pushing the button, other stations can be displayed and selected.
If stations names are being misused to send advertisements or messages, this station is indicated with `L-1`... `L-Z` (`L` = Local). This prevents constant switching in the lower display line. When a station is selected, it is identified by a star (e.g. `L*1`).
The first time the unit is operated, or when the electrical supply has been interrupted, it may take the radio some time to evaluate the station signals. The display will appear incrementally as the evaluation progresses.

## Station Search FM - DAS

Turn the right rotary control ● to the left or right. The radio displays the receivable and identified radio stations in descending/ascending order

## Station Search MW, LW, SW

In the desired waveband (`MW`, `LW` or `SW`) turn the right rotary control ● to the left or right. The radio searches for reception frequencies in descending/ascending order of frequency.

## Scan Search

In the desired waveband (FM, MW, LW or SW), press the right rotary control ●, SC will be displayed.

```
SWR4 KA   101.6  SC      138
                          KM
AntRdtRegRpr S Swr <-    10:23
```

An automatic station search is started. The first run is performed on an insensitive plane, all further runs on a sensitive plane. Receivable stations can be heard for 8 seconds. Press the right rotary control ● to retain the received station.

**Note:** With FM DAS, Scan Search is conducted in alphabetical order.

## Programme Filtering for FM DAS

You have the option of filtering various stations from the FM DAS station list.
In the Radio Menu Mode, press the multifunction button Fil .

```
Fil on Swr1 - Play
Fm Am PtyDisRegTxt Fil
```

The individual programmes can be selected using the right rotary control ●. By pressing the right rotary control ●, selection can be made between Play (Programme unfiltered) and Skip (Programme filtered out).

To switch the filter function on or off, repeated press the multifunction button Fil to switch the filter function on (Fil on) or off (No Fil).

## Programme Type Selection (PTY)

In the Radio Menu Mode, press the multifunction button Pty .

```
PTY: Affairs
Fm Am Pty Dis RegTxt Fil
```

Then, use the multifunction button Pty to select the desired PTY (see also page 135).

**Note:** Only those PTYs that are currently available can be selected.

If a PTY is selected in FM DAS mode, only those stations with this particular PTY can be selected.
By selecting NO PTY in FM-DAS mode, all stations will once again be displayed.

## Swirching PTY Display On/ Off

Select radio menu mode.

```
Disp. PTY              ⊏▭▭⊐♪
Fm Am Pty▓Dis▓RegTxt Fil
● ● ● ⊡ ● ● ● ● ● ●
```

With the multifunction button `Dis`, select either PTY (PTY Display On) or Frequency (PTY Display Off).

## Calling up/ Storing FM Stations

In the Radio Menu Mode, use the multifunction button `Fm` to select the level Stations RDS or Stations Fix.

- Stations RDS (see also page 134)
- Stations Fix (see also page 134)

**Storing:** 12 frequencies or programmes can be stored per waveband.

To store the desired station or programme, press the multifunction buttons `1` - `6` or `7` - `12` until a signal tone sounds.

```
FM1 101.6    ▣▣    ▲  138
                       KM
1  2  3  4  5  6  ->  10:23
⊡ ⊡ ⊡ ⊡ ⊡ ⊡ ⊡ ■ ■ ⊡
```

To reach memory locations 7 – 12, press the multifunction button `->`.

**Calling up a stored station**: Press the multifunction button `1` - `6` or `7` - `12`. The stored transmitter is called up.

## Calling up/ Storing MW, LW, SW Stations

**Storing:** Up to 12 stations can be stored under the station buttons. Search for the desired station and press the desired multifunction button until a signal tone sounds.

To reach memory locations 7 – 12, press the multifunction button `->`.

```
MW1 999      ▣▣    ▲  138
                       KM
1  2  3  4  5  6  ->  10:23
⊡ ⊡ ⊡ ⊡ ⊡ ⊡ ⊡ ■ ■ ■
```

**Calling up:** Repeatedly press the multifunction button `1` - `6` or `7` - `12`. The stored transmitter is called up.

## Autostore MW, LW

Press the ▪RAD▪ button.

```
MW Autostore on    📻 🎵
Fm Am As Man
```

Press the multifunction button ▪As▪ until `Autostore on` is displayed.
Press the multifunction button ▪As▪ until `Seek Autostore` is displayed.
The 6 best received stations will be stored under the station buttons in the order of their reception quality.
To exit the Autostore memory level, switch off the Autostore memory using the multifunction button ▪As▪ `Autostore Off`). The radio switches back to the station button plane.

## Manual Tuning FM

In Radio Menu Mode use multifunction button ▪FM▪ to select the `Stations Fix` level.

```
FM Stations Fix    📻 🎵
Fm Am    Man
```

Press the multifunction button ▪Man▪ twice.
Now turn the right rotary control ●.

Tuning will take place in increments of 100 kHz.
The currently active manual tuning is indicated by `MAN` in the display. If the right rotary control ● is not turned after a short time, `MAN` will disappear from the display and the manual tuning is switched off.

## Manual Tuning MW, LW, KW

Press the ▪RAD▪ button.

```
SW Short Wave    📻 🎵
Fm Am Man
```

Press the multifunction button ▪Man▪ twice.
Then turn the right rotary control ●.
Tuning will take place in increments of 9kHz (MW),
3kHz (LW) or 5kHz (SW).
The currently active manual tuning is indicated by `MAN` in the display. If the right rotary control ● is not turned after a short time, `MAN` will disappear from the display and the manual tuning is switched off.

# Radio Mode

## Regionalisation

The RDS diversity function is independent of region. In this mode it can occur that, through the RDS diversity function, the radio will switch between various regional programmes with differing programme formats. If this occurs, the special regional programming must be selected directly.

If several regional programmes are transmitted by one station, this can only be seen when the station is selected.

Stations with additional regional stations are indicated with a star (e.g. 4*).

```
SWR4 KA  97.0 TP    ↑    138
                          KM
 1  2  3* 4* 5 Swr <-    10:23
```

Upon selection of one of these stations (e.g. 4*) all receivable regional sub-programmes for this station will be displayed. Then, select the desired regional sub-programme (e.g. Ka ).

```
Select SWR4  TP  ↑   138
                     KM
Og Ka               10:23
```

If the reception quality of a regional sub-programme drifts despite the RDS Diversity function, it may mean that regional sub-programming is only transmitted on a few frequencies. If the unit remains tuned to frequencies with better reception quality, there will be less drift.

## Switching Regionalisation On/ Off

Select radio menu mode.

```
Reg: on          ⬅⬛➡ ♪
Fm Am PtyDis Reg Txt Fil
```

Using the multifunction button  Reg , switch Regionalisation on (On) or off (off).

## Switching Frequency Display On/ Off

Select radio menu mode.

```
Disp. Frequency   ⬅⬛➡ ♪
Fm Am Pty Dis RegTxt Fil
```

Using the multifunction button  Dis , select either Frequency (Frequency display on) or PTY (Frequency display off).

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## Switching Radio Text On/ Off

Select FM radio menu mode. With the multifunction button
Txt switch on Radio Text.

```
Here, Radio Text is displayed
Here, Radio Text is displayed
Fm Am PtyDis Res Txt Fil
```
⊙⊙⊙⊙⊙⊙⊙⊙⊙⊙

The car radio filters data transmitted by the radio station and displays it in the form of radio text.
Radio text cannot be displayed unless the selected transmitter also transmits radio text.
During poor reception situations or interference, the display of the radio text may be garbled or not possible at all.
To exit the Radio Text level, press the **RAD** button.

**Note: Since information transmitted via radio text display varies constantly, we recommend tuning in the radio text only when the vehicle is stationary to avoid unnecessary distraction for the driver.**

## Traffic Programme (TP)

If an RDS Diversity station broadcasts TP announcements, it is possible to interrupt CD, MP3, CDC/AUX, MW, LW, KW play or the mute mode and switch the TP announcements through. Moreover, you can listen to one FM station while having TP announcements switched through that are transmitted by another FM station.

The Traffic Programme function depends on whether the TMC is set to On or Off ("Switching TMC On/ Off" on Page 118)

When TMC is switched off:

• There are two ways to select a TP transmitter:
  **- automatic tracking**
  With the **automatic tracking function,** the FM station currently being listened to is always used as the TP station. If the selected FM station has poor reception quality or cannot function as a TP transmitter, the unit applies specified criteria to search for a new TP transmitter.
  With **direct programming,** a TP station other than the one being listened to can be programmed. For example, one FM station can be received while TP announcements transmitted by another FM station are switched through.
  If the programmed TP transmitter reception is poor, the unit switches to automatic tracking until the programmed TP transmitter is receivable.

# Radio Mode

When TMC is switched on:

- With TMC, the unit is capable of selecting a suitable traffic programme transmitter automatically. If possible, a TMC station is selected as the traffic programme transmitter. The selected TMC station normally offers the best information for the region you are in. If no TMC station is available, the traffic programme transmitter with the strongest signal is selected.

If an RDS transmitter is equipped with a traffic programme, this is indicated on the display by TP.
An inverse ▣ appears on the display to indicate that the traffic programme is active.

## TP - Activating/ Exiting the TP Menu
**Activating:** Press the  TP  button (traffic announcements cannot be transmitted).

TP on 🚗🚗🎵
▣ StaVolTmc
・■■■■■■■■■■・

Press the multifunction button  TP .

**Exiting:** Press the  TP  button, or the TP menu will automatically disappear after 8 seconds if no further operations are performed.

## Switching TP On/ Off
In all operations and wavebands, TP can be switched on or off by pressing and holding the button  TP  for more than 2 seconds.
TP can also be switched on/off in the TP - menu.
**Switching on:** To switch on TP in the TP Menu, repeatedly press the multifunction button  TP  until TP on appears.

TP on 🚗🚗🎵
▣ StaVolTmc
・■■■■■■■■■■・

**Switching off:** To switch off TP in the TP Menu, repeatedly press the multifunction button  TP  until TP off appears.

TP off 🚗🚗🎵
▣ StaVolTmc
・■■■■■■■■■■・

TP is switched off after returning to normal display.

## Selecting Automatic Tracking

Functions only when **TMC is switched off**.

In all operations and wavebands, automatic tracking can be switched on by pressing and holding the  **TP**  button for more than 2 seconds.

To switch on automatic tracking in the TP Menu, repeatedly press the multifunction button  Tp  until TP on appears.

```
TP on                    🚗🎵
TP StaVolTmc
```

**Attention :  If a TP transmitter has already been pro-
grammed directly, it will once again be selec-
ted as the TP transmitter.**

## Selecting / Deleting Direct Programming

Functions only when **TMC is switched off**.

Activate the TP menu.

**Selecting:** Repeatedly press the multifunction button  Sta .

```
Stat: SWR3               🚗🎵
Tp StaVolTmc
```

Using the right rotary control ⬤, select the desired TP station and press to confirm. After a short delay and without actuation, the selected station is accepted.

**Deleting:** Repeatedly press the multifunction button  Sta .

```
Stat: Autoselect         🚗🎵
Tp StaVolTmc
```

Select Autoselect with the right rotary control ⬤ and press to confirm. After a short delay and without actuation, the direct programming is deleted.

Quit the TP menu.

## Switching Mute Function On / Off

After selection of a TP or EON transmitter, the mute function can be activated by pressing the  **TP**  button briefly.

```
TP Info - SWR3    i  🔇
Tp StaVolTmc
```

Thereafter, only traffic announcements and navigation announcements will be switched through. By pressing the  **TP**  button again, the mute function is cancelled.

# Radio Mode

## Interrupting TP Announcements

Briefly press the `TP` button briefly.
The announcement currently being broadcast will be interrupted and the system will automatically return to the previously selected mode.

## TP Announcement Volume

Activate the TP menu. Press the multifunction button `Vol`.

```
TPV: 1               🚗🚙♪
Tp Sta Vol Tmc
● ● ⊙ ● ● ● ● ● ● ●
```

With the right rotary control ●, four different settings (0 - 3) can be selected. This means that the volume can be raised to a fixed value according to the setting.

- Setting 0 - No increase
- Setting 1 - Slight increase
- Setting 2 - Medium increase
- Setting 3 - Strong increase

## Switching TMC On/ Off

**Note:** Further information on TMC can be found under "Dynamic Route Guidance" on Page 106.

Activate TP Menu

```
TMC on               🚗🚙♪
Tp Sta Vol Tmc
● ● ● ⊙ ● ● ● ● ● ●
```

**Switching on**:
Repeatedly press the multifunction button `Tmc` until TMC on appears.
If TMC is switched on, no traffic programme stations can be freely selected. If receivable, the unit will select a TMC station. This station is then the traffic programme station.

**Switching off:**
Repeatedly press the multifunction button `Tmc` until TMC off appears.
If TMC is switched off, a traffic programme can be freely selected.

**Note:** No dynamic navigation functions (Dynamic Route, Traffic Information) can be selected or called up.

## Display for TMC Stations

If a radio station broadcasts TMC information in addition to radio programming, this is indicated by the abbreviation TMC in the display. TMC information is received and analysed by the navigation system. The reception of traffic announcements is free of charge.

TMC is shown in **normal script**:
The current station is a TMC station. TMC is switched off.

```
       TMC       138
SWR3  101.6 TP  ↑  KM
AntRdtRegRpr S Swr ->  10:23
```

TMC is shown in **inverse script**:
The current station is a TMC station. TMC is switched on.

```
      TMC        138
SWR3  101.6 TP  ↑  KM
AntRdtRegRpr S Swr ->  10:23
```

## Telephone Mute Function

If a telephone is installed in the vehicle and the mute function for the telephone is activated, the telephone function can be set in the User menu (Page 127).

With the setting Mute the radio will be switched to mute when a call comes in.

With the setting Audio signal the sound of the telephone will be heard through the radio unit if a call comes in (vehicle ignition must be on).

This can only occur if, in addition to the telephone, a hands-free unit with loudspeaker output is installed and connected to the radio. In both cases PHONE will be displayed.

```
                 138
PHONE        ↑   KM
                 10:23
```

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# CD Operation

## Instructions for Compact Discs (CD)

Sound interruptions may occur if the CD is dirty. To ensure optimum sound quality, please ensure the following:

- Handle the CD only by the edges. Never touch the playing surface and be sure to keep it clean.

- Never stick anything to the CD.

- Protect the CD from strong sunlight and heat sources such as heaters, etc.

- Before playing, clean the CD with a commercially available cleaning cloth, wiping from the centre outwards. Never use solvents such as petrol, thinners or other commercially available cleaners and anti-static sprays.

| | |
|---|---|
| **Correct** | **Incorrect** |
| **Incorrect** | **Correct** |
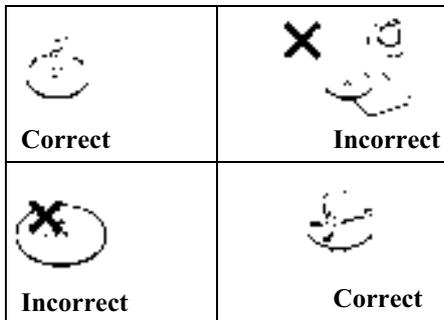
## Inserting/ Ejecting CDs

### Inserting a CD:

Insert the disc into the CD slot with the printed side upwards. The unit pulls in the CD automatically and begins to play the disc from the first track.

After the last track has finished playing, the unit will automatically repeat the CD from the first track.

If there is already a CD in the slot, press the `CD` button. If the CD changer / AUX operation was last selected, use the multifunction button `Scd` to switch to CD operation.

```
Track 9   05:26 TP       138
                          KM
RndRpt < > |< >| Cdc     10:23
```

### Ejecting a CD:

To eject a CD, press the ⏏ button, and the CD is ejected. Remove CD.

**Attention : The CD is not ejected when the unit is switched off, but will remain in the CD slot.**

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## Track Skip - Forwards/ Backwards

Press the multifunction button  >ı  (forwards) or  ı<  (backwards)

```
┌─────────────────────────────────┐
│ Track 9   05:26 TP    138        │
│                       KM         │
│ RndRpt < > ı< >ı Cdc  10:23      │
└─────────────────────────────────┘
 ● ● ● ● ● ⊡ · ⊡ · ● ● ● ●
```

By pressing the multifunction button repeatedly, several tracks can be skipped over in forward or reverse directions. Once the last track has been reached in the forward direction, the unit switches back to the first track. Analogously, it switches from the first track to the last track when going backward.

If a title has been playing for more than 10 seconds when the skip button is pressed, the unit will skip back to the beginning of the title playing.

## Scan Search

Press right rotary control ●, SC will appear in the display.

```
┌─────────────────────────────────┐
│ Track 9   00:06 SC    138        │
│                       KM         │
│ RndRpt < > ı< >ı Cdc  10:23      │
└─────────────────────────────────┘
```

All following CD tracks are played for 10 seconds each. To terminate the scan search, press the right rotary control ● again.

## Fast Forward/ Rewind

By pressing the multifunction button  >  the Fast Forward function (audible) is activated, or by pressing the multifunction button  <  the Fast Rewind function (audible) is activated.

```
┌─────────────────────────────────┐
│ Track 9   05:26 TP    138        │
│                       KM         │
│ RndRpt < > ı< >ı Cdc  10:23      │
└─────────────────────────────────┘
 ● ● · ⊡ · ⊡ ● ● ● ● ● ●
```

Fast forward / rewind is terminated by releasing the multifunction button.

## Random Play

By pressing the multifunction button  Rnd  the random play function is activated. Subsequently, the titles from the current CD will be played in random order. The prompt Rnd is displayed inversely.

```
┌─────────────────────────────────┐
│ Track 9   05:26 TP    138        │
│                       KM         │
│ RndRpt < > ı< >ı Cdc  10:23      │
└─────────────────────────────────┘
 ⊡ · ● ● ● ● ● ● ● ● ● ●
```

By pressing the multifunction button  Rnd  again, the "Random Play" function is deleted.

# CD Operation

## Title Repeat

By pressing the multifunction button `Rpt` the "Title Repeat" is switched on. The prompt `Rpt` is displayed inversely.



By pressing the multifunction button `Rpt` again, the "Title Repeat" function is deactivated.

## Number of Titles and Total Playing Time

In the CD mode, press the `CD` button. By pressing the multifunction button `Trk` the elapsed playing time will be briefly displayed.



By pressing the multifunction button `Ttl`, the number of titles and total playing time for the current CD will be briefly displayed.

## Temperature Protection Circuit

To protect the laser diode from excessive heat, a temperature protection circuit has been implemented into the unit.
On activation of the temperature protection circuit, `Temp` will appear for 8 seconds and the unit will be switched back to the radio or other audio source.
After a cool down period, single CD operation or CD changer operation can be called up again. If the temperature is still too high, the unit will once again switch back to radio or another audio source.

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## Operational Readiness of CD Changer

If a CD changer is connected to the car radio, the CD changer is ready for operation as soon as the filled CD magazine is loaded. Close the sliding tray after loading. Further operation is performed via the car radio control panel.

## Loading / Ejecting the CD Magazine

To remove the CD magazine, open the sliding cover on the changer and press the eject button. The magazine is ejected and can be removed.

When inserting CDs in the magazine, please note imprint on magazine.

**Attention : Incorrectly inserted CDs will not be played.**

**Note:** To allow for the fastest possible change of CDs, the magazine should be loaded successively, beginning with Compartment 1.

## Playing CDs

Press the  CD  button. If the CD Changer operation was selected last, or if there is no Navigation CD inserted into the CD player, the unit will be in CD Changer menu.

If CD Operation was selected last, the unit must be switched to CD Changer operation by pressing the multifunction button  Cdc  to switch to CD changer operation.

The last CD played will be played from the position at which it was left before the unit was switched off.

Loaded CDs can be selected by turning the right rotary control ●. During the selection time, Loading CD X is displayed. The magazine compartment number or the name of the CD and the number of the current track on the selected CD are then displayed.



If no CD is loaded in the selected magazine compartment (i.e. Compartment 2), NO CD 2 will briefly appear on the display. After the last title of a CD has been played, the next CD will automatically be selected and played.

For additional operating instructions, see CD Operation (Page 120):

- "Instructions for Compact Discs (CD)" on Page 120
- "Track Skip - Forwards/ Backwards" on Page 121
- "Scan Search" on Page 121
- "Fast Forward/ Rewind" on Page 121
- "Random Play" on Page 121
- "Title Repeat" on Page 122
- "Number of Titles and Total Playing Time" on Page 122

## Naming a CD

Press the **CD** button. Then, press the multifunction button Nam .

```
Name: MADONNA                 CDC
Trk Ttl Nam Edt Fil Del
```

To give a name or change an existing name, press the multifunction button Edt .

```
Track 10  05:26               CDC
Trk Ttl Nam Edt Fil ← →
```

The individual entries can be selected by pressing the multifunction buttons ← and → , selecting the desired position (inverse editing symbol).

```
Edit --------                 CDC
Trk Ttl Nam Edt Fil ← →
```

Using the right rotary control ●, select the desired letters and press to confirm.

Press the right rotary control ● to move one position further.

A maximum of 8 characters can be entered
After exiting the CDC menu, the name is stored.

To delete an existing name, press the multifunction button Nam .
Using the right rotary control ●, select the name to be deleted.

```
Name: XXXX                    CDC
Trk Ttl Nam Edt Fil Del
```

By pushing the multifunction button Del , the name can now be deleted.

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## CD Filter Function

Press the **CD** button. Then, press the multifunction button `Fil`.



For the Silverstone 2660 CD changer, the individual tracks of the current CD can be selected using the right rotary control ⬤. By pressing the right rotary control ⬤ selection can be made between `Play` (Title unfiltered) and `Skip` (Title filtered out).

To switch the filter function on or off, repeatedly press the multifunction button `Fil` to switch the filter function on (`Fil on`) or off (`No Fil`).

For the Silverstone 2630 and 2640 CD changer, you can selected between `Play` (Title unfiltered) and `Skip` (Title filtered out) for the current title by pressing the right rotary control ⬤.

**Attention :  The filter function can only be activated when the selected CD has been assigned a name**

## Call Up / Exit User Settings Menu

After calling up the User Menu, the following Basic Settings can be set up in two levels according to your personal preference.

First level:

- Gal - Speed dependent volume control (GAL)
- Tel **-** Adjusting telephone function settings
- Led **-** Adjustment of Blinking Diode
- M/S **-** Adjustment for optimising reception
- Nav - Adjustment of Navigation Announcements
- Aux - Adjustment of the AUX input

Second level:

- Cmp - Adjustment of the Compass Display
- BeV - Adjustment of signal tone volume

The User Menu is called up by pressing the **SOUND** button for more than 2 seconds.



To access the second level of the User Menu, press the multi-function button ⃞ → ⃞ .

To exit the User Settings menu, press the **SOUND** button again.

## Setting the GAL (Gal)

The GAL is a car radio control circuit, which automatically adjusts the car radio volume according to vehicle speed. This results in compensation of the driving noise produced at higher speeds.

Call up User Menu. Press the multifunction button Gal .
With the right rotary control ● select between 0 and +15.



With the GAL setting, the start of volume adjustment can be specified according to vehicle speed.

The setting is stored automatically.

Explanation:

- 0 - No volume increase
- +1 - Volume increase begins at low vehicle speed
- +15 - Volume increase begins at higher vehicle speed

## Telephone Mute Function (Tel)

If a telephone system with hands-free unit is installed in the vehicle, the telephone conversation can be conducted via the car radio system. As such, there is no need to install an additional loudspeaker. However, the signal leads (AF – Telephone input and Earth – Telephone input) must be connected to the car radio (see page 136).

To display compass, call up User Menu. By pressing the multifunction button `Tel`, select either `Audio Signal` or `Mute`.



- `Mute` - Telephone Mute setting
- `Audio signal` - Telephone conversation via car radio

## Adjusting Reception Optimisation (M/S)

Three different reception optimisation settings can be selected in order to suppress reception-dependent interference and reflections:

Call up User Menu. By pressing the multifunction button `M/S` select between `Stereo`, `Mono` and `Auto`.



- `Auto`: Setting for normal operation - i.e., the system switches from stereo to mono and back depending upon reception location (provides the optimum setting for almost all reception areas).
- `Stereo`: Setting for exceptional reception conditions - i.e. the unit is constantly set to stereo.
- `Mono`: Setting for reception conditions in which reflections constantly occur - i.e., the unit is constantly set to mono.

The setting is immediately effective and is retained when the unit is switched off.

# User Menu

## Adjusting the Led

With this function, the flashing of the LED (flashes when unit is switched off) can be switched on or off.

Call up User Menu. By pressing the multifunction button `Led` select either `Blinking` (LED On) or `off` (LED Off).

```
Led: blinking          ☀
GalTelLedM/SNavAux →
```

The setting is stored automatically.

## Setting Navigation Announcements (Nav)

With this function you can select how you wish to hear navigation announcements.

- `only` - The audio source being listened to is turned off and the navigation announcements can be heard.

- `mixed` - The audio source being listened to is lowered. The navigation announcement is set to the same volume level as the previously heard audio source but still adjustable within a range of +/-6 dB. If the audio source volume is then changed, the navigation announcement volume is adjusted accordingly.

- `independ` - The audio source being listened to and the navigation announcements can be set to different levels.

To set, call up User Menu. Using the multifunction button `Nav` select from `Only`, `Mixed` and `Independ`.

```
NAV: mixed             🌐♪
GalTelLedM/SNavAux →
```

The setting is stored automatically.

## AUX Input (Aux)

This can be used to switch on the CD changer AF connections if no CD changer is connected. An external unit (Discman, Walkman, etc.) can then be connected.

To set, call up User Menu. With the multifunction button `Aux` select either `AUX Mode on` or `Aux Mode off`.

```
AUX Mode on        ⌐AUX
GalTelLedM/SNavAux →
```

The setting is stored automatically.

In CD operation, the multifunction button `Aux` must be pressed to select AUX operation.

## Display Compass

When the Route Guidance is not active, a compass can be shown on the right side of the display.

To set, call up User Menu. By pressing the multifunction button →, call up the 2nd level of the User Menu. Using the multifunction button Cmp select either show compass (Compass is displayed) and hide compass (Compass is not displayed).

If the compass display is switched off and Route Guidance is not currently active, radio station abbreviations can be assigned to 9 multifunction buttons in FM - DAS mode.

```
show compass        ◀?
CmpBeV        ←
```

The setting is stored automatically.

## Signal Tone Volume

With this function, the volume of signal tones (e.g. storage confirmation) can be set.

To adjust, call up User Menu. By pressing the multifunction button →, call up the 2nd level of the User Menu. Press the multifunction button BeV. With the right rotary control ● select either 0 (Quiet) or +5 (Loud).

```
Beep Vol.  +5     Alert Beep
CmpBeV        ←
```

The setting is stored automatically.

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# Service Menu

## Call Up / Exit Service Menu

The following information can be called up in the Service Menu.

- Model-No.: - Display of the model number
- Serial-No.: - Display of the serial number
- Changer Reset - Reset for CDC (if available). For Reset, press the multifunction button Res .
- GAL - Display of the current GAL adjustment
- Radio Software - Display of radio software status
- Radio Bolo - Display of radio Bolo status
- Navi Rom - Display of Navi Rom/Lib status
- Navi Flash - Display of Navi Flash status
- RTC Value - Display of RTC value

To set the Service Menu, simultaneously press the button NAV and the multifunction button 10 during radio operation.

```
Brand Name:
Becker Aut. Sys.
              NxtPrvEnd
```

The individual entries can be selected by pressing the multifunction buttons Nxt and Prv or by turning the right rotary control ●.

To exit the Service Menu, press the multifunction button End .

## Triggering Reset

If a malfunction of the unit should occur, such that the unit is no longer capable of operation or is defective in some other way, a restart of the internal unit software (reset) can be triggered via the following button combination:

To trigger a reset, press the multifunction button 1 , multifunction button 3 and the TP button at the same time.

After a reset of the unit software, the code number must be entered and the Navigation CD re-inserted.

# Connection Instructions
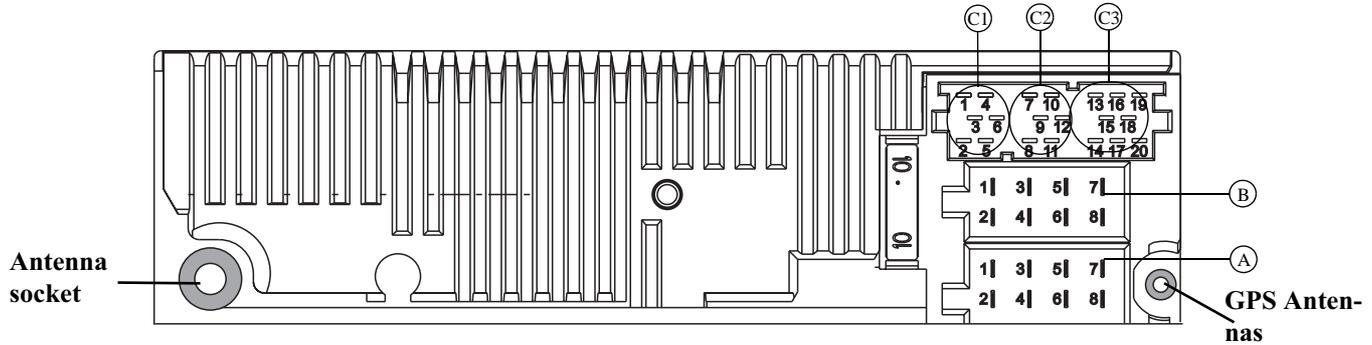


**Warning!** Terminal 30 and Terminal 15 must always be connected separately, otherwise increased power consumption will occur when the unit is switched off. Connection socket A is not the same for all vehicle types. Therefore, always measure voltages before installation.

## Socket A
1. Speed Signal (GAL)
2. Reversing lamp signal
3. Telephone mute / clearing function
4. Permanent positive (Terminal 30)
5. Control output for automatic antenna/ amplifier
6. Illumination (Terminal 58)
7. Switched positive (Terminal 15)
8. Earth (Terminal 31)

## Socket B
1. Loudspeaker right rear +
2. Loudspeaker right rear -
3. Loudspeaker right front +
4. Loudspeaker right front -
5. Loudspeaker left front +
6. Loudspeaker left front -
7. Loudspeaker left rear +
8. Loudspeaker left rear -

## Socket C1
1. LineOut left rear
2. LineOut right rear
3. AF Earth
4. LineOut left front
5. LineOut right front
6. Subwoofer LineOut

## Socket C2
7-12 Specific connection for Becker CD changer

## Socket C3
13. AF – Telephone input
14. Earth – Telephone input
15-17 Specific connection for Becker CD changer
18. CD AF Earth (AUX)
19. CD AF left (AUX)
20. CD AF right (AUX)

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## Installation and Removal Instructions

A universal bracket for DIN installation slots is integrated into this car radio. An installation frame is not required. The unit is inserted into the installation slot and secured with the slides supplied.

To install, complete all electrical connections. Then push the unit into the installation slot. Afterward, insert slides into the openings on the front of the unit until the first détente position (Figure A). Now lock the radio into place by pulling on both slides as shown in Figure B. Subsequently, remove the slides.

To remove the unit, it must first be unlocked. To do this, push in both slides to the second detent position as shown in Figure A. Subsequently, withdraw the unit with both slides (Figure C). Then remove the slides by pressing the springs on the right and left sides of the unit.If the unit was previously installed in another vehicle, it may be necessary to adjust the springs on the unit before installation. To adjust the springs, insert slide as shown in Figure D and afterward adjust as shown in Figure E (gently press slide in the direction of "1" while at the same time moving the slide in the direction of "2").
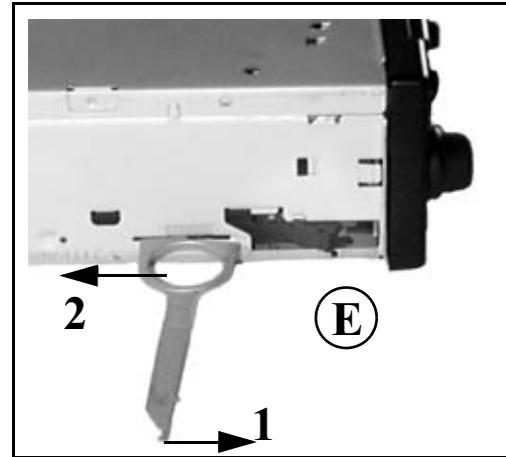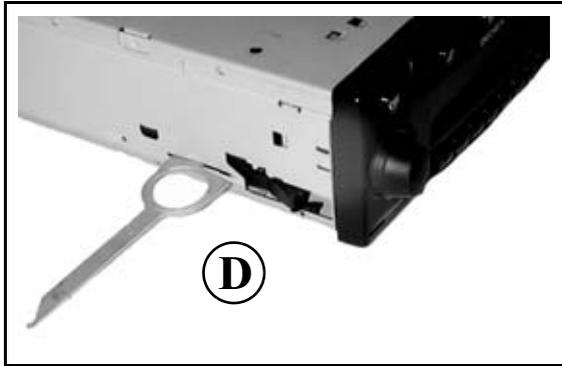
# General Instructions

## RDS SYSTEM

This car radio is capable of receiving RDS signals (RDS = Radio Data System) in the VHF range. RDS is a technique which enables the transmission of inaudible additional information in the VHF broadcasting range. This means that the transmitting station sends information capable of being analysed by the car radio.

## DAS Seek Qual. Level

At the level DAS Seek Qual., all receivable and identifiable RDS programs are stored in a list according to their quality. The dynamic autostore, search and scan search functions access upon this list.

## DAS Seek Name Level

At the level DAS Seek Name all receivable and identifiable RDS programs are stored in a list alphabetically by name. The dynamic autostore, search and scan search functions access this list.

## RDS Stations Level

At the level RDS Stations only identified RDS stations can be stored. The unit constantly switches to the best receivable transmission frequency for the station.

During search for RDS Stations the unit will stop only at identifiable stations.

## Stations Fix Level

At the level Stations Fix frequencies can be assigned to the station buttons. RDS evaluation does not take place. The search for Stations Fix is equivalent to manual FM tuning (page 113).

## PTY (Program Type)

With the PTY function, it is possible to select specific types of programming, such as sport, pop music, classical music etc.The PTY is transmitted by the RDS station, provided this function is installed at the station facility. The selected transmitter programme type can be displayed or a search for a specific PTY transmitter can be performed.

Examples of Program Types are:

| | |
|---|---|
| NEWS | News |
| POP M | Pop music |
| AFFAIRS | Politics and current events |
| ROCK M | Rock music |
| INFO | Service programs |
| SCIENCE | Science |
| EDUCATE | Education |
| LIGHT M | Light music |
| DRAMA | Radio plays and literature |
| CLASSICS | Classical music |
| CULTURE | Culture, Religion, Society |
| EASY M | Easy listening |
| VARIED | Humour |
| SPORT | Sports |
| OTHER M | Special music programming |
| WEATHER | Weather reports |
| FINANCE | Business/ financial information |
| CHILDPRG | Children's programming |
| SOCIAL | Social reports |
| RELIGION | Religious reports |

| | |
|---|---|
| PHONE IN | Interviews |
| TRAVEL | Travel reports |
| LEISURE | Leisure reports |
| JAZZ | Jazz music |
| COUNTRY | Country music |
| NATION M | National folk music |
| OLDIES | Oldies |
| FOLK | Folk music |
| DOCUMENT | Documentation |
| NO PTY | No PTY |

# Technical Data

| | | |
|---|---|---|
| **Wavebands** | : | FM 87.5 MHz - 108 MHz |
| | | MW 531 kHz - 1620 kHz |
| | | LW 153 kHz - 282 kHz |
| | | SW 5800 kHz - 6250 kHz |
| **Frequency range** | : | 20 Hz - 20 kHz for CD operations |
| | | 30 Hz - 15 kHz for FM |
| | | 50 Hz - 2.5 kHz for MW, LW, SW |
| **Output power** | : | 4 x 18 Watt |
| **Line cross section** | : | min. 0.75 mm² |
| **Loudspeaker impedance** | : | min. 4 $\Omega$ |
| **Line out** | : | 4 x analogue Line Out (Ua max 3Veff at 10 k$\Omega$) |
| **GAL** | : | In order to utilise the GAL, a square wave voltage with a mass-related amplitude of +4 V - +12 V must come from the electronic tachometer of the vehicle. Volume increase takes places in 7 increments of 2.5 dB each. |
| **Antenna** | : | Impedance 50 $\Omega$ |
| **AF-Telephone input** | : | Max. input voltage of 8 V (if interference occurs, a commercially-available 1 : 1 carrier should be connected to the signal lead). |
| **AUX Input** | : | 16 K$\Omega$ Input resistance, max. input voltage 1.7 Veff |
| **Telephone Mute** | : | Low active level < 2 Volt |
| **Supply voltage** | : | 12 Volt |
| **CD Connection** | : | The Becker Silverstone 2630 and Silverstone 2660 CD changers can be connected. |
| **Playable CDs** | : | Only those CDs which comply with DIN EN 60908 can be used. The use of 8 cm CDs with adapter is not recommended. |

# NOTICE

Dear Listener,

In conformance with current EC guidelines, any person may operate this radio receiver.

This unit conforms to the current valid European or harmonised national regulations. The designation is your guarantee that the unit conforms to the applicable specifications concerning electromagnetic compatibility. This means that interference with other electrical/electronic devices caused by the unit, or interference with this unit caused by other electrical/ electronic devices, are largely prevented.

<u>Current valid designations are:</u>

-   **CE Symbol** for issue according to
    European guideline 89/336/EWG with the application of
    the following European standards:     EN 55013
                                                            EN 55020

$$C\hspace{-2pt}\epsilon$$

-   **e symbol** according to European
    motor vehicle EMC guideline 95/54/EG, also permits
    operation in motor vehicles (classes M, N and O) that
    have received their type classification after 1 January 1996.

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