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**Technical Data**

- P.T.V. (Program Type)
- RBDS System

**General Instructions**

- Connection Instructions
  - Country select (CON/TRY)
  - Telephone mute characteristics (PHONE)
  - CAL select
  - LED select
  - I/F select
  - DRIVER select
  - Input menu - Regress / next
  - Line menu - Regress / quit

**CD/MD Change Operation**
Bottom Arrangements

1. Volume control
2. On / off switch
3. Tone button
4. Road traffic announcement button
5. LED
6. Operating mode switching button (Source)
7. Function button
8. Waveband switching button (Band)
9. Tape / CD eject button
10. Right rotary control
11. Multifunction buttons
12. Display
Note:
It is essential that the CODE CARD be kept in a safe place outside the vehicle. Thus, illegal use is not possible. The accompanying sticker should be attached to the inside of the vehicle windshield window.

The first six digits of the CODE CARD are unique to your vehicle. Change them only if you wish to use your device with a different vehicle. The last four digits are your personal code.

CODE CARD

Example: Code number 1530 (the code number can be found on the enclosed

The four-digit code must then be entered using the multifunction buttons...
Do not touch the metal contacts on the portable panel or on the antenna.

Note: Please insert the portable panel in the accompanying protective cover before removal.

If a new portable panel or heater from another unit is utilized, the code number must be entered as previously described in order to activate the unit.

Note: For safety reasons, it is not permissible to leave the portable panel open when driving.

Note: If the unit is switched on after a period of 10 seconds, the unit is switched to mute. The unit switches off after a further 10 seconds. The unit is switched on again after 20 seconds, as the signal is received from the control component. If the volume is increased to a maximum value after the display has been folded out, the portable component can then be pulled out. For this purpose, press and hold the display folds forwards.

As an effective anti-theft device, the portable panel (A) can be removed from the unit.

Note: The warning light applies only to ignition and will switch on when the unit is activated for approx. 60 minutes. The other indicator lights displayed on the display are for service purposes only. The operational code does not apply to this display.

If an incorrect code number is entered, the prompt CODE with the four sums is displayed.
General Operation

Activate tone menu

Press button. The tone menu is activated. The following functions can be selected:

- Loud (loudness)
- Stereo (stereophonic sound)
- Treble (treble)
- Bass (bass)
- Balance (balance)
- Fader

Operating mode: changing the waveform or invert/mute is inactive.

The mute function is canceled by pressing the volume control. Changing the volume control MUTE appears on the display.

The mute can be switched to mute in each operating mode by pressing the mute button. The current volume level is shown on the display.

Adjust volume

The mute button will switch off automatically after 1 hour.

Hints: The unit can also be switched on with the function switched off.

By pressing the mute button 3 seconds, the function of the mute can be preceded from switching off the function. The mute must previously have been switched off via the function. Further on, off switching possibilities: A function in order to switch on via

Switch off/on
**General Operation**

Center setting: Press both buttons simultaneously.

Value are displayed. Set the desired value level via both buttons.

Press button and then multifunction button "+", "−", "FM/AM" and the set.

**Falder**

Center setting: Press both buttons simultaneously.

Value are displayed. Set the desired balance via both buttons.

Press button and then multifunction button "+", "−", "BAL" and the set.

Adjust balance

Center setting: Press both buttons simultaneously.

Value are displayed. Set the desired level via both buttons.

Press button and then multifunction button "+", "−", "TRE" and the set.

Adjust level

Center setting: Press both buttons simultaneously.

Value are displayed. Set the desired bass via both buttons.

Press button and then multifunction button "+", "−", "BASS" and the set.
The setting is effective immediately after pressing the multifunction button.

MONO: Selecting for reception conditions in which reception conditions occur.

STEREO: Selecting for normal operation. If no signal is received, switch from stereo to mono.

Adjust mono / stereo

Linear adjustment

Pressing the multifunction button "LINEAR" repeatedly will adjust the linear settings.

Off / On

Press the multifunction button "OFF" to turn the power on. Press again to turn the power off.

General Operation
Switch on radio menu mode

When changing the waveband, the last selected transmitter is selected.

Press button repeatedly until desired waveband FM 1, FM 2 or AM is selected.

Select waveband

Note: If you switch often between FM and CD, first select FM and then quickly and repeatedly until the desired operating mode is selected.

Quickly and repeatedly until the desired operating mode is selected. If the last selected operating mode is selected after the button is pressed for the 3rd time, (for connected CD/MD changer) can be selected.

Press button. The operating modes Radio, CD or TAPE or CD/MD

Select operating mode

Radio Operation
The multifunction buttons.

Select radio menu mode and then, within 8 seconds, enter the frequency using

**Direct Frequency Entry**

Control of the received program should be returned.

Supported transmitters can be heard for 8 seconds. Press the right function

performed on an insensitive plane. If further searches on a sensitive plane,

displayed. An automatic transmitter search is started. The first search is

in the desired waveband (FM or AM) press the right rotary control. SC is

Scan search

searches in descending/ascending order

Tune in the right rotary control to the beginning in desired waveband. The radio

**FM, AM Transmitter Search**

manual tuning. Auto-tune, direct frequency entry and station buttons.

The desired transmitter can be selected via transmitter search, scan search, or

Setting Procedures for Transmitter Selection

**Radio Operation**
Radio Operation

FM I/F/2 transceiver - Request/Store

- The frequency is displayed if the transceiver cannot be identified.
- Request: Press multifunction button "R", "O", "F". The stored frequency is transmitted as program.
- Press multifunction button for 2 - 4 seconds in order to store the desired FM band and PM.
- Store: 10 frequencies of programs can be stored on each of Wavebands FM 1 and FM 2.

- Function button program if there is no further action within 15 seconds.
- In order to activate search, select radio menu mode and then press "S". NO P.TY appears. (See also page 29 NO P.TY appears. If the selected transceiver has no P.TY function, select "P.TY Display/search (PTY)" and press multifunction button "P.TY", "L.P", "L.P", "L.P").
Manual Tuning

1. Turn the radio to FM or AM.
2. Press and hold the multifunction button until "FM / AM AutoTune" is displayed. The 10 transmitters with best reception are stored under the station buttons in order of quality.
3. Select desired transmitter and press the multifunction button until the station button is lit.
4. Press "AM Transmitter - Request/Store" button to store transmitter.

Radio Operation
Radio Operation

Note:
During notification announcement, the described increase in volume
The abbreviation TP appears.
If traffic announcements are not desired, the button must be pressed until the abbreviation TP is displayed.
If traffic announcements are desired, the button must be pressed until the abbreviation appears.

Traffic Program Transmitter - Display / Select

If a traffic program transmitter is selected, the Abbreviation TP appears.

Traffic Program System offers the advantage that current traffic news can
be received and heard during the actual traffic. For this purpose, it is essential that a traffic program transmitter is selected in the FM program and that the traffic program is activated.
Time Request

PHONE is displayed.

PHONE

Select radio mode in FM wavem. Then press multifunction button.

Fm 17:07

Possible if time signal has been received via RDS. If no time signal has been received, "- - - " is displayed. The current time in hours and minutes is displayed. This display is only activated if a call is received.

Phone mute function

Radio Operation

For the setting AUDIO, the radio is switched to mute if a call is received.

If the telephone system is installed in the vehicle and the mute function is used for the telephone characteristics can be set in the user menu (see also page 27)
Radio Operation during Forward / Rewind

The volume control. Operation of the radio functions is, however, not possible.

During Forward / Rewind, the radio (FM) can be switched briefly by turning

shown on the display.

the multifunction buttons for track switching. The track currently playing is

The tape track can be switched at any desired position by pressing briefly and

The track is changed automatically at the end of the tape.

Track Switching

remains in the cassette slot.

The cassette is not ejected when the unit is switched off but

Note: The cassette is not ejected when the unit is switched off but the

display is on again.

If there is already a cassette in the cassette slot, press button repeatedly

Tape and Track

The unit switches automatically to cassette operation. Tape and Track

When the cassette is pulled in automatically, then hold the display up

Press the button briefly: the display folds downwards and the cassette slot

Cassettes - Insert / Eject
DOLBY NR should be engaged.

Press the Dolby NR cassette(s) repeatedly until the Dolby B or Dolby C (C) appears on the display.

The Dolby NR indicator appears on the display repeatedly until the desired noise reduction mode is selected.

Press the Dolby NR indicator repeatedly until the desired noise reduction mode is selected.

**Music Search - Forward / Backwards**

In order to advance the backward music search, turn the right rear view control to the right until the desired number of tracks to be skipped (MAX. 9) is set.

In order to activate the forward music search, turn the right rear view control to the left until the desired number of tracks to be skipped (MAX. 9) is set.

**Fast Forward / Rewind**

The track switching buttons of the fast forward/rewind button.

In order to cancel the function, press on the right rear view control or press multifunction buttons.

**Durum Cassette Operation - Fast Forward / Rewind can be activated using the Tape Operation**
Cleaning the cassette mechanism

If the display shows "CLEAN" for more than 30 minutes, use a cleaning cassette, available from your dealer, for this purpose. The cleaning cassette should be removed again after 30 seconds.

Cleaning the cassette mechanism

In order to cancel the function, press the track switching buttons or the Fast Forward / Rewind buttons.

Scan

Scanning is shown on the display. Press the multifunction button "SB" until "SB" and "SCAN" appear in the display. Each track is played for approx. 10 seconds.

Skip

If skip blank is active, automatic forward is activated at blank tape sections.
In the CD slot.

The CD is not ejected when the unit is switched off but remains
and the CD is ejected. Then remove the CD. Then fold the display up again.

In order to eject a CD, press button briefly: The display folds downwards
appear on the display.

If there is already a CD in the CD slot, press button repeatedly until CD
of the CD slot.

After playing the last track, the unit automatically opens to play the first track
Then fold the display up again.

While in the CD automatically and begins to play the disc from the first track.
Press button briefly: The display folds downwards and the CD slot becomes

**CDs - Insert / Eject**

- If the CD is inserted incorrectly, please note the following:
- Compact discs may occur if the CD is soiled. In order to ensure optimum

---

**CD Operation**
Relative time is displayed for a number of seconds.
Fast forward / Rewind is limited by releasing the multifunction button. The
Fast forward (multiple) is achieved by pressing the multifunction button.
and Fast rewind (multiple) is achieved by pressing the multifunction button.

Fast Forward / Rewind

Scan

Press and hold the right rotary control until the prompt SC appears on the
screen again to continue the scan search.
All following CD tracks are played for 8 seconds each. Press the rotary
display.

Track Skip - Forward / Reverse

When the last track has been reached, automatically, it jumps from the first to
Track 1. When it reaches the end of the track, it returns to the beginning of the track and repeats the
operation. If the track has been played for longer than 10 seconds when the track
is played, the rotary control to the right / left.
CD Operation

Direct Track selection

The direct 1-0 and TRACK # are displayed.
The unit is switched to select mode by pressing the multifunction button "0".

Random Play

The random play function is activated by repeated pressing of the multifunction button "RP".
The tracks of the current CD are then played in random order. The abbreviation RP in the display appears on the display.

By pressing the multifunction button "<" (within 10 seconds) the previously played track is displayed for approx. 10 seconds.

Relative time, number of tracks, total playing time

After switching back to CD menu mode if no buttons are activited for approx. 8 seconds, the display shows current track, total track time, number of tracks, total playing time, and track number.
Temperature Protection Circuit

CD Operation

Previously selected signal source.

However, if the temperature is still too high, the unit will switch back to the

single CD operation can be requested again after a short cooling phase.

The unit switches back to the last selected signal source (FM/AM or CD/MF).

When this protection circuit is activated, CD TEMPE appears for 8 seconds.

Never close access over heading.

A temperature protection circuit is utilized in this unit in order to protect the

CD Operation
should be fully loaded from compartment 1.

Note: In order to ensure the best possible CD change, the magazine

Note: Incorrectly inserted CDs will not be played.

When inserting CDs in the magazine, please note input into the magazine.

Press the eject button. The magazine is ejected and can be removed.

In order to remove the CD magazine, open the sliding cover on the changer and

CD magazine - load / unload

Control panel:

Sliding cover after loading. Further operation is performed via the car radio

soon as it has been loaded with the desired CD magazine or with MD. Close the

If the CD/MD changer is connected to the car radio, this is ready for operation as

Operational readiness of CD/MD changer
Before selection in order to access the sub-menu, 

**Note:** For the points marked with *, the button must be pressed.

*Direct track selection* See Page 21
*Random play* See Page 21
*Rewind / Fast forward* See Page 20
*Forward / Rewind* See Page 20
*Search forward / Reverse* See Page 20
*Track skip / Forward / Reverse* See Page 20

For further operation see under CD Operation Page 19.

After playing the last track of a CD/M/D, the next CD/M/D in the magarine is automatically selected and played.

If no CD/M/D is present in the selected magarine compartment (C6), the current track of the selected CD/M/D is displayed.

Progress CD/M/D, in which it was last played, and press repeatedly until the CD/M/D you want to play is displayed. Then press the desired CD/M/D can be selected via the multichannel buttons, 1-6.

Press **CD/M/D Change Operation**
(LHD) and DRY R (RHD). The setting is stored automatically.

Control: Use the multifunction buttons "", "", or "", select between DRY L and DRY R (RHD) is selected using the right rotary knob. For selection, request user menu. Then set DRYER using the right rotary knob. If a telephone system with headphones unit is installed, the telephone conversation is conducted via the loudspeaker side. The external loudspeaker is selected using the Volume control (LHD / RHD) is selected using the Driver setting.

User Menu - Request / quit

User Menu

END
Country
Dependent characteristics
Phone
Drier
LHD / RHD
Cable
Search
User memory

According to your personal preference, adding restrictions to the user menu, the following basic settings can be entered.
According to vehicle speed
- Volume adjustment initialized at high speed
  - CAL 7
  - CAL 1
  - CAL of
  - CAL OFF
- No volume adjustment

Explanations of terms:

**CAL 7**
The setting is stored automatically.
Multifunction buttons (↑, ↓, →, ←) enable a choice between CAL ON and CAL OFF. The request user menu, then set CAL. Use the right arrow control key to ensure the volume is adjusted to vehicle speed. This results in compensation of the driving noise produced at higher speeds.

**CAL ON**
A CAI is a radio control circuit where automatically adjusts the car radio volume according to vehicle speed. This enables the car radio to automatically adjust the volume according to vehicle speed. This reduces the noise produced at higher speeds.

**LED OFF**
When set LED OFF, the function of the LED is off (when manual is switched on). The height of the LED (heights when manual is switched off) can be switched on.

**User Memory**
Both Setup memories and the last selected position are enabled. When manual is switched all the multifunction buttons (↑, ↓, →, ←) offer a choice of three different settings.

**User Menu**
When the right arrow control key is pressed, the request user menu, then set USER.
The band limits and search steps are listed on page 30. For the ASIA setting, the

**ASIA**

for Australia

**ASEAN**

for South America

**USA**

for the USA

Possible settings are:

The setting is stored automatically.

One of the settings listed below using the multifunction buttons or "", "", "", "", "", "", "", "".

Press the menu button, then set **COUNTRY** using the right arrow control. Choose

A variety of countries can be set using this function, i.e. the search steps of the

**Country Setting (COUNTRY)**

Multifunction button. The setting is effective immediately after executing the

- Telephone conversation via car radio
- Telephone menu function and

- PH ON
- PH OFF

Between these, the multifunction buttons can be used to select

In order to activate, because that menu item is set PH OFF

must be connected to the car radio (see page 30).

Please refer to the signal Fields (AF) - Telephone menu and search - Telephone menu.

Installation of the mandatory required additional loudspeaker is not necessary.

Telephone conversation can be conducted via the car radio system. Thus,

If a telephone conversation with handsfree unit is included in the vehicle, the

**User Menu**
Connection Instructions
Examples of Programme Types are:

- News
- Weather
- Traffic
- Soft Rock
- Classic Rock
- Jazz
- Pop Music
- Classical Music
- Sports
- Weather Forecasts
- News Service

Programme Type (PTY)

Programme Types can be displayed on a screen of a suitable PTY transmitter. The selected Programme Type can be displayed with this function. The selected Programme Type can be changed using the PTY function.

Some Programme Types, such as "News Service" and "Sport" can be selected using the PTY function.

RDS System

General Instructions
The use of 8 cm CDs with adapter is not recommended.

Only CDs which conform to DIN EN 69908 may be used.

**MDX 6** can be connected.

The possible CD changer CD/3 or the Sony MD changer MDX 6 and
12 Volt
Low bubble level < 2 Volt
Max. input voltage 8 V
Impedance 50 Ω
Loadspeaker impedance: min. 4 Ω
Line out
Output power: 4 x 18 Watt
FM 50 Hz - 2.5 KHz for AM
FM 30 Hz - 1.5 KHz for FM
Frequency range
SW: 5 KHz (ASIA)
FM: 200 Hz (USA, CANADA, AUSTRALIA, ASIA)
AM: 10 KHz (USA, CANADA, AUSTRALIA, ASIA)

Search steps

For ASIA add to loudness SW with 5900 KHz - 6250 KHz
AM: 300 KHz - 1700 KHz (USA, CANADA, AUSTRALIA, ASIA)
FM: 8.75 KHz - 10.7 MHz (USA)
FM: 8.75 KHz - 10.7 MHz (ASIA)
FM: 8.75 KHz - 10.7 MHz (AUSTRALIA)
FM: 8.75 KHz - 10.7 MHz (ASIA)