



Coach Control Unit

CCU 02 MP3 PROFESSIONAL

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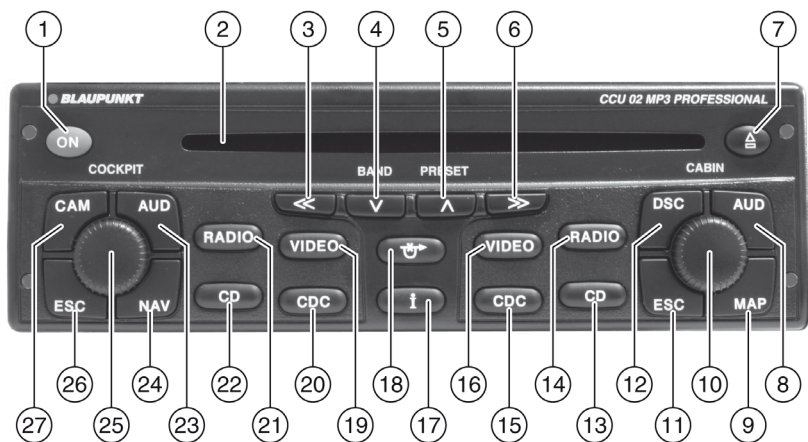
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Bedienungsanleitung
Operating instructions
Mode d'emploi
Instrucciones de manejo
Istruzioni d'uso
Instruções de serviço



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**BLAUPUNKT**



- ① **ON** button
Switches the device on/off
- ② CD tray
- ③ << button
- ④ **V** button
- ⑤ **^** button
- ⑥ >> button
- ⑦ CD eject button 
- ⑧ **AUD** button (cabin)
Selects the BASS and TREBLE function as well as FADER (system amplifier CPA 121 only), *MORE and RESTORE for the cabin area
- ⑨ **MAP** button
Shows the navigation map display in the cabin area (only with connected TravelPilot Coach Professional in conjunction with CLX or RGB/FBAS changer)
- ⑩ Right rotary/pushbutton for the cabin area
Turn: Adjusts the base volume and for menu selection.
Push: Operates menus
- ⑪ **ESC** button
Exits menus
- ⑫ **DSC** button
Calls up the DSC menu (Direct Software Control) to set expanded base functions of the device
- ⑬ **CD** button
Selects the CD audio source for the cabin area (internal drive of the CCU 02)
- ⑭ **RADIO** button
Selects the radio audio source for the cabin area
- ⑮ **CDC** button
Selects the CD changer audio source for the cabin area (only with connected CD changer)
- ⑯ **VIDEO** button
Selects the video source in the cabin area
- ⑰ **i** button corresponds to the **i** button of the remote control of the TravelPilot (only with connected TravelPilot Coach Professional)
- ⑱  button corresponds to the traffic congestion bypass button, () on the remote control of the TravelPilot (only with connected TravelPilot Coach Professional)
- ⑲ **VIDEO** button
Selects the video source in the cockpit area
- ⑳ **CDC** button
Selects the CD changer audio source for the cockpit area (only with connected CD changer)
- ㉑ **RADIO** button
Selects the radio audio source for the cockpit area
- ㉒ **CD** button
Selects the CD audio source for the cockpit area (internal drive of the CCU 02)
- ㉓ **AUD** button (cockpit)
Selects the BASS and TREBLE function as well as BALANCE, *MORE and RESTORE for the cockpit area

- ②④ **NAV** button
Activates the control of the TravelPilot Coach Professional via:
- Buttons ③ to ⑥
 - Rotary/pushbutton ②⑤
 - ESC button ②⑥
- same as the TravelPilot remote control
- ②⑤ Left rotary/pushbutton for the cockpit area
Turn: Adjusts the base volume and for menu selection.
Push: Operates menus
- ②⑥ **ESC** button
Exits menus
- ②⑦ **CAM** button
Displays cameras in the cockpit area only in conjunction with CLX or a corresponding monitor with selector switch

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Notes and accessories

Before placing your device into operation, carefully read these instructions and familiarise yourself with the device. Keep these instructions in the vehicle for subsequent questions.

If you still have questions concerning the operation of the device or about service, please contact the phone hotline in your country (charges may be incurred dependent upon the country). You will find the telephone number printed at the back of these operating instructions.



Road safety

Road safety has absolute priority.

- Only operate your device if the road and traffic conditions allow you to do so.
- Familiarise yourself with the device before setting off on your journey.

You should always be able to hear police, fire and ambulance sirens in good time from inside your vehicle.

- For this reason, listen to your car sound system at a suitable volume level during your journey.

Disposal of old unit (EU countries only)



Do not dispose of your old device in the household trash!

Use the return and collection systems available to dispose of the old device.

Connecting add-on devices (option)

The CCU 02 (Coach Control Unit) is the central control panel of the Coach Professional line which allows you to separately adjust and control the audio and image sources for the bus for the driver (cockpit) and the passengers (cabin). The CCU 02 can only be operated in conjunction with the amplifier CPA 81 or CPA 121 (Coach Power Amplifier).

Note:

The CCU 02 does not have its own display; all displays of the CCU 02 are output either via optional DVD/CD player CVX 02, via the display (LCD monitor CLX) of a TravelPilot Coach Professional connected as an option, or via the optional multi-function display of the vehicle for the driver.

The following add-on devices can be connected to the CCU 02 (not part of the scope of delivery):

Display unit and DVD/CD player CVX 02

to display the settings (display) and to play back DVDs/CDs.

- **CD changer CDC**

two CD changers for playback of CDs for the cockpit and the cabin area (two CD changers can be connected if a CPA 121 system amplifier is used.

If you are using a CPA 81 system amplifier, you can connect a CD changer.)

- **Video player, DVD player or TV tuner**

two additional video sources (video or DVD player or TV-Tuner) can be connected in addition to the CVX 02 for playback of videos or DVDs or for TV re-

ception. If two additional video sources are connected, an audio/video selector switch is required.

- **TravelPilot Coach Professional** for navigation and display of the navigation map as well as to display CCU 02 displays.
- **CLX LCD monitor** to display up to 3 back-up cameras, the navigation, video signal and display of the settings of the CCU 02 in conjunction with the TravelPilot Coach Professional (only suitable for integration in the instrument panel).

Menus of the CCU 02

Many settings (e.g. AUD, DSC) at the CCU 02 are performed by means of menus. An overview of all menus of the CCU 02 is located on the last page of these instructions in the chapter on "Menus". To display the menu requires connecting an additional separate device such as the CVX 02 or a TravelPilot Coach Professional with monitor/CLX.

Navigating in menus

After calling up a menu, use the rotary/pushbuttons (25) and (10) to move the selection mark in the menus. To call up or change menus, press the respective rotary/pushbutton (25) or (10).

Submenus

To provide a more convenient mode of operation, several menus are divided into submenus. Menu items with submenus are identified with an **asterisk symbol "*"**.

Protected menus (CODE)

To prevent unauthorised users from changing settings, some menu items are protected.

In this case, "CODE" is displayed after selecting the menu item.

If "CODE" is displayed, press **both** rotary/pushbuttons (25) and (10) at the same time for confirmation until a "beep" sounds.

Time out

If no additional operation is performed, an open menu is automatically hidden again after approx. 8 seconds.

Note:

Since the operation switches from the cabin to the cockpit area after 10 seconds, it may be necessary to push the rotary/pushbutton twice to select the cabin menu.

Switching on/off

There are various ways of switching the device on/off: When the device is switched on, the last settings are activated.

Switching on/off with the ON button

- To switch on the device, press the **ON** button ①.
- To switch off the device, press and hold down the **ON** button ① for longer than one second.

Switching on/off using the vehicle ignition

The device can be switched on or off with the ignition. For this purpose, do not switch off the device using the **ON** button ① but, instead, the ignition.

After switch-on with the ignition, the last settings or the status are activated again.

Switching on via telephone (option)

If the phone is activated with switched-off device, the device switches on. After switching off the phone, the device is automatically switched off again. This requires that the phone is properly connected to the device and the ignition is switched on.

Switching on with the microphone

If the microphone 1 (driver) is activated while the device is switched off, the device switches on (microphone is not part of the scope of delivery). After switching off the microphone, the device is automatically switched off again. This requires that the microphone is connected to the device using the supplied adapter cable and the ignition is switched on.

Adjusting the volume

Adjusting the base volume

The base volume is separately adjustable for the cockpit and the cabin area.

To set the base volume for the cockpit,

- turn the left rotary/pushbutton (25).

To set the base volume for the cabin area,

- turn the right rotary/pushbutton (10).

Minimum/maximum volume for cockpit after switch-on

- Press the **AUD** button (23) for cockpit.
- Select "* MORE" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.
- Select "* SET VOL" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Select "MIN V" for the minimum volume or "MAX V" for the maximum volume with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Adjust the desired volume with the left rotary/pushbutton (25).
- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Minimum/maximum volume for cabin after switch-on

- Press the **AUD** button (8) for cabin.
 - Select "* MORE" with the right rotary/pushbutton (10).
 - Press the right rotary/pushbutton (10).
- The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time until a beep sounds.
- Select "* SET VOL" with the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10).
- Select "MIN V" for the minimum volume or "MAX V" for the maximum volume with the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10).
- Adjust the desired volume with the right rotary/pushbutton (10).
- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Playback of phone calls

If you connected a cell phone to the system, the CCU02 uses the system loudspeakers in the cockpit for the phone playback and the microphone 1 as phone microphone.

If you are using the Blaupunkt microphone CDM 04 GSM together with a commercial hands-free system, the phone call is discretely played back via a speaker located in the microphone.

For this purpose, the cell phone must be connected to the CPA.

The base volume for phone calls can be adjusted (CPA 121 system amplifier only):

Adjusting the volume

- Press the **AUD** button (23) for cockpit.
- Select "* MORE" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
The display shows "CODE".
- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.
- Select "* SET VOL" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Select "PHONE" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Adjust the desired volume with the left rotary/pushbutton (25).
- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Phone mix

During a telephone call, the audio source can be listened to in the background.

To adjust the ratio of telephone to audio volume,

- press and turn the left rotary/pushbutton (25) during a telephone call.

The value is stored.

Playback of voice output (navigation)

If your device is connected to a navigation system, the device is muted during a voice output. The CCU 02 uses the system speakers in the cockpit for the voice output.

For this purpose, the navigation system must be connected to the device accordingly.

The base volume for voice output can be adjusted (CPA 121 system amplifier only):

- Press the **AUD** button (23) for cockpit.
- Select "* MORE" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.
- Select "* SET VOL" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Select "NAV" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Adjust the desired volume with the left rotary/pushbutton (25).
- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Navigation mix

During a voice output, the audio source can be listened to in the background.

To adjust the ratio of voice output and audio volume,

- press and turn the left rotary/pushbutton (25) during a voice output.

The value is stored.

Setting the volume of the lane warning device

If the bus is equipped with a lane warning device and it is properly connected to the system, an inadvertent crossing of the road marking generates a warning signal. The volume of this signal can be adjusted.

- Press the **AUD** button (23) for cockpit.
- Select "*** MORE**" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.
- Select "*** SET VOL**" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Select "**ALARM**" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Adjust the desired volume with the left rotary/pushbutton (25).
- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Setting the volume for traffic announcements

The volume for traffic announcements can only be adjusted for the cockpit area:

- Press the **AUD** button (23) for cockpit.
- Select "*** MORE**" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.
- Select "*** SET VOL**" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Select "**TA V**" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).
- Adjust the desired volume with the left rotary/pushbutton (25).
- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Playback of microphone announcements

You have the option of connecting three external microphones (dynamic) to the device. Microphone 1 (MIC1) is available to the driver and microphones 2 and 3 (MIC2 and MIC3) to the tour guide. Microphone 1 has always priority over microphone 2 and 3.

Switching on microphone 1 interrupts the audio playback. If the microphone is switched off, the audio source is turned back on.

Setting the volume for microphone announcements

During a microphone announcement, the volume can be adjusted with the rotary/pushbutton (10). The value is stored.

To set the volume for the microphone announcements,

- press the **AUD** button (8) for cabin.
- Select "*** MORE**" with the right rotary/pushbutton (10).

Adjusting the volume

➤ Press the right rotary/pushbutton (10).

The display shows "CODE".

➤ Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.

➤ Select "* SET MIC" with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

➤ Select "MIC1 VOL" for the first, "MIC2 VOL" for the second or "MIC3 VOL" for the third microphone with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

➤ Adjust the desired volume with the right rotary/pushbutton (10).

➤ Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

➤ Select "MIC2 MIX" for the second or "MIC3 MIX" for the third microphone with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

➤ Set the desired mix ratio with the right rotary/pushbutton (10).

➤ Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

The values for the individual microphones are saved.

Another way of adjusting the microphone mix:

➤ Press and turn the right rotary/pushbutton (10) during the microphone announcement.

The value is stored.

Microphone mix

During an announcement with MIC2 or MIC3, the audio source can be listened to in the background.

To adjust the ratio of microphone to audio volume (MIX),

➤ press the **AUD** button (8) for cabin.

➤ Select "* MORE" with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

The display shows "CODE".

➤ Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.

➤ Select "* SET MIC" with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

Adjusting the sound

You can set the sound properties separately for the cockpit and the cabin area.

Adjusting the bass

To adjust the bass for the cockpit or the cabin area,

- press the **AUD** button (23) for cockpit or **AUD** button (8) for the cabin area.

"BASS" is displayed.

- Press the left (25) or right rotary/push-button (10) for cockpit or cabin.

The current value is displayed.

To change the value,

- turn the left (25) or right rotary/push-button (10) for cockpit or cabin.

To exit the menu,

- hold the **ESC** button (26) for the cockpit area or the **ESC** button (11) for the cabin area pressed until a beep sounds and the menu is exited.

Adjusting the treble

To adjust the treble for the cockpit or the cabin area,

- press the **AUD** button (23) for cockpit or **AUD** button (8) for the cabin area.

"BASS" is displayed.

- Turn the left (25) or right rotary/push-button (10) for cockpit or cabin until "TREBLE" is displayed.

- Press the left (25) or right rotary/push-button (10) for cockpit or cabin.

The current value is displayed.

To change the value,

- turn the left (25) or right rotary/push-button (10) for cockpit or cabin.

To exit the menu,

- hold the **ESC** button (26) for the cockpit area or the **ESC** button (11) for the cabin area pressed until a beep sounds and the menu is exited.

Adjusting the balance (Cockpit)

To adjust the left/right volume distribution (balance) for the cockpit,

- press the **AUD** button (23) for cockpit.

"BASS" is displayed.

- Turn the left rotary/pushbutton (25) until "BALANCE" is displayed.

- Press the left rotary/pushbutton (25).

The current value is displayed.

To change the value,

- turn the left rotary/pushbutton (25).

To exit the menu,

- hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Adjusting the fader (Cabin)

To adjust the left/right volume distribution (fader) for the cabin (for CPA 121 system amplifier only),

- press the **AUD** button (8) for cabin.

"BASS" is displayed.

- Turn the right rotary/pushbutton (10) until "FADER" is displayed.

- Press the right rotary/pushbutton (10).

The current value is displayed.

To change the value,

- turn the right rotary/pushbutton (10).

To exit the menu,

- hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Setting the volume level for audio sources

Since the different audio sources that can be connected feature different levels, you can adjust their volume. This is beneficial to avoid "volume spikes" when switching audio sources. The level can be set for each source.

- Select the audio sources whose level you want to adjust with the corresponding source buttons (19) to (22).
- Press the **AUD** button (23) for cockpit.
- Select "* MORE" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.
- Select "GAIN" with the left rotary/pushbutton (25).
- Press the left rotary/pushbutton (25).

The current value is displayed.

To change the value,

- turn the left rotary/pushbutton (25).

To exit the menu,

- hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Saving audio settings

You can save your audio settings and access them again. This function is available for the cabin and cockpit area.

- Press the **AUD** button (23) for cockpit or **AUD** button (8) for the cabin area.
- Select "* MORE" with the corresponding rotary/pushbutton for cockpit or cabin.
- Press the corresponding rotary/pushbutton.

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time until a beep sounds.
- Select "SAVE COC" or "SAVE CAB" (audio cockpit or audio cabin) with the corresponding rotary/pushbutton (25)/(10).
- Press the corresponding rotary/pushbutton (25)/(10).

The settings are saved.

- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Restoring audio settings

You can restore your previously saved audio settings; this function is available for cockpit and cabin.

- Press the **AUD** button (23) for cockpit or **AUD** button (8) for the cabin area.
- Select "RESTORE" with the corresponding rotary/pushbutton (25)/(10).
- Press the corresponding rotary/pushbutton (25)/(10).

The settings are restored.

- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Resetting sound and volume distribution

You can reset the values for sound and volume distribution to zero.

To reset the settings,

- hold the button **AUD** (8) for cabin or **AUD** (23) for cockpit pressed for longer than 2 seconds until "CENTER" is displayed.

Radio mode

This device is equipped with an RDS radio receiver. Almost all FM stations transmit a signal that contains the program as well as information such as the station name.

The station name appears on the display as soon as the tuner receives it.

The most important functions of radio mode can be operated using the buttons (3) - (6).

Note:

With the optional available DVD/CD player CVX 02, the operation is simplified with additional buttons.

The CCU 02 does not have its own display; all displays of the CCU 02 are output either via optional CVX 02, via the monitor of a TravelPilot Coach Professional connected as an option, via the optional multi-function display of the vehicle or via the CLX LCD monitor in conjunction with the TravelPilot Coach Professional.

Switching to radio mode

If you want to switch on radio mode for the cockpit,

- press the **RADIO** button (21).

If you want to switch on radio mode for the cabin area,

- press the **RADIO** button (14).

Note:

Since this device features **one** tuner, it is not possible to select different stations for cockpit and cabin.

Selecting the waveband/memory bank

This device can be used to receive programs of the frequency bands FM, MW and LW (for EUROPE) or FM and AM (for NAFTA countries). Three memory banks are available for the FM waveband and one memory bank each for the wavebands MW, LW or AM. Six stations can be stored in each memory bank.

Selecting the memory bank

To switch between memory banks (FM1, FM2, FMTS, MW and LW or AM),

- press the **▼** button (4) repeatedly until the desired memory bank is displayed.

Tuning into a station

There are various ways of tuning into a station.

Automatic station seek tuning

- Briefly press the button << (3) or >> (6).

The radio tunes into the next receivable station.

Manual station tuning with remote buttons

You can also tune into stations manually.

This requires switching to "MANUAL".

For further details, please read "AUTO/MANUAL" in the section "Radio menu" in this chapter.

Tuning into stations manually

- press the button << (3) or >> (6) repeatedly until the frequency of the desired station is displayed.

Storing stations

Storing stations manually

- Use the **▼** button (4) to select the desired memory bank FM1, FM2, FMTS, MW or LW or AM.
- Press the **▲** button (5) repeatedly until the desired memory bank "P1...P6" is displayed.
- Tune into the station (see "Tuning into a station").
- Press and hold down the **▲** button (5) for longer than two seconds.

Storing stations automatically (Travelstore)

You can automatically store the six stations offering the strongest reception in the region (FM only). The stations are stored in the FMTS memory bank.

Note:

Any stations that were previously stored in this memory bank are deleted in the process.

- Use the **▼** button (4) to select the memory bank FMTS.
- Hold the **▼** button (4) pressed until a beep sounds.

The storing procedure begins. After the process has completed, the radio will play the station that is stored in memory bank 1 of the FMTS memory bank.

Listening to stored stations

- Use the **▼** button (4) to select the desired memory bank.

➤ Press the **▲** button (5) repeatedly until the desired memory bank "P1...P6" is displayed.

Radio menu

(menu diagram on the last pages of the instructions)

All functions of the radio mode can be controlled with the buttons (3) - (6) as well as the Radio menu.

Note:

Some settings in the Radio menu are only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

Calling up the Radio menu

To change to the Radio menu,

➤ during the radio mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Note:

Since the operation switches from the cabin to the cockpit area after 10 seconds, it may be necessary to push the rotary/pushbutton twice to select the cabin menu.

The first activation switches from cockpit to cabin. The second activation calls up the menu.

Selecting menu items in the Radio menu

To select menu items from the menu,

➤ while the menu is displayed, turn the corresponding rotary/pushbutton (25) for cockpit or (10) for cabin.

The next or previous menu item is displayed.

Changing or confirming settings in the Radio menu

If you want to change or confirm a menu item in the menu,

➤ press the corresponding rotary/pushbutton (25) for cockpit or (10) for cabin.

Accepting the change, exiting the menu

To accept changed settings and to exit the menu,

➤ briefly press the corresponding **ESC** button (26) for cockpit or (11) for cabin.

Some selection options automatically exit the menu after they are selected. The next higher level of the menu is displayed.

To end the Radio menu,

➤ press and hold the corresponding **ESC** button (26) for cockpit or (11) for cabin until a beep sounds and the menu is exited.

Settings in the Radio menu

- **"* SEARCH"**: Confirm this menu item to select searching forwards or backwards.

"< SEARCH": Searching backwards.

"SEARCH >": Searching forwards.

- **"* TUNE"**: Confirm this menu item to reach the manual tuning.
Turn the rotary/pushbutton (25) or (10) to select the desired frequency.
- **"* STORE"**: Confirm this menu item to store a station.
Turning the rotary/pushbutton (25) or (10) selects the memory locations P1 ... P6.
To save, confirm the rotary/pushbutton (25) or (10).
- **"* BAND"**: Confirm this menu item to select between the wavebands or memory banks.
To select the memory locations, press the rotary/pushbutton (25) or (10).
- **"TRAVEL S"**: Starts an automatic station seek tuning.
- **"TA ON/OFF"**: Selection between priority for traffic information On and Off.
- **"AF ON/OFF"**: Selection between alternate frequencies On and Off.
- **"REG ON/OFF"**: Switches the regional function REG On or Off.
- **"AUTO/MANUAL"**: Selection between automatic station seek tuning and manual station tuning.
- **"* AUD"**: Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The **"* AUD"** function in the Radio menu is only available if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

Convenient RDS functions (AF, REG)

The convenient RDS functions AF (Alternative Frequency) and REG (Regional) extend the range of functions of your device.

AF: If the AF function is activated, the device automatically searches in the background for the best receivable frequency of the set station.

REG: Some stations divide their programs into regional programs at certain times. You can use the REG function to prevent the radio from switching to alternative frequencies that are transmitting different programme content.

Note:

With activated REG function, the radio attempts to receive the regional program of the set station as long as possible. When you leave the broadcast area of a regional program, you should switch off REG.

Switching the AF function on/off

The AF function is switched on or off in the Radio menu or DSC menu. For further details, please read the "Radio menu" section in this chapter and "DSC menu" at the end of the instructions.

Switching REG on/off

The REG function is switched on or off in the Radio menu or DSC menu. For further details, please read the "Radio menu" section in this chapter and "DSC menu" at the end of the instructions.

Traffic information reception

Switching traffic information priority on/off

➔ Select "TA ON" in the Radio menu.

The priority for traffic announcements is activated if the display shows "TA".

Notes:

- If you are leaving the broadcast area of a set traffic information station while listening to a traffic information station, the unit automatically switches to a new station with traffic announcement.
- The volume for traffic announcements can be adjusted. For further details, please read the section "Setting the volume for traffic announcements" in the chapter "Adjusting the volume".

Switching bandwidth during interference (SHARX)

The SHARX function allows you to largely avoid interference caused by neighbouring radio stations (FM only). Switch on the SHARX function if the density of radio stations in your area is very high. For further details, please read the section "DSC Radio" in the chapter "DSC menu".

CD mode CCU 02 internal drive

You can use this device to play standard audio CDs with a diameter of 8 and 12 cm.



Risk of severe damage to the CD drive!

Contoured CDs (shape CDs) are not suitable for playback.

We accept no responsibility for any damage to the CD drive that may occur as a result of the use of unsuitable CDs.

Switching to CD mode

If there is no CD inserted in the drive,

➔ gently insert the CD with its printed side up into the CD tray until you feel some resistance.

The drive draws in the CD automatically.

If a CD is already inserted in the drive,

➔ press the **CD** button (22) for the cockpit or **CD** button (13) for the cabin area.

The playback starts automatically with the first track.

Starting playback (Play) after Stop or Pause

➔ Press the **▲** button (5).

Interrupting playback (pause)

➔ Press the **▼** button (4).

Selecting tracks

➔ Press the button **>>** (6) or **<<** (3) to select the next or previous track.

If you press the << button (3) once, the current track is played again from the beginning.

Fast seek tuning (audible)

To fast search backwards or forwards,

- press and hold down the button >> (6) or << (3) until fast searching backwards/forwards begins.

Removing a CD from the device

To remove the CD from the device,

- press the  button (7).

You must not hinder or assist the drive as it ejects the CD.

Random track play (Mix)

You can play all the tracks of a CD in random order. The MIX function must be activated for this purpose. For further details, please read the following section "CD menu for CCU" in this chapter.

CD menu for CCU

(menu diagram on the last pages of the instructions)

All functions of the CD mode can be controlled with the buttons (3) - (6) as well as the CD menu.

Calling up the CD menu

To change to the CD menu,

- during the CD mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the CD menu

- "* SELECT": Confirm this menu item to reach the track selection.

Turning the rotary/pushbutton (25) or (10) selects a desired track.

To confirm, press the rotary/pushbutton (25) or (10).

- "PAUSE": Pauses the playback.
- "PLAY": Continues the playback.
- "STOP": Stops the playback.
- "MIX ON/OFF": Switches random track play on/off.
- "* AUD": Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The "* AUD" setting in the CD menu is only possible if the expanded menu is activated. For further details, please read the chapter "Expanded menu".

MP3/WMA mode CCU 02 internal drive

You can also use this radio/control panel to play CD-Rs and CD-RWs that contain MP3/WMA music files.

Preparing an MP3/WMA CD

The various combinations of CD burners, CD burning software and CD blanks may lead to problems arising with the device's ability to play certain CDs. If problems occur with your own burned CDs, you should try another brand of CD blank or choose another colour of CD blank.

The format of the CD must be ISO 9660 Level 1/Level 2 or Joliet. Other formats cannot be played reliably.

You can create a maximum of 253 directories on a CD. You can use this device to access each of these directories.

Regardless of the number of directories on the CD, the device can handle up to 65,535 MP3 files on a single CD - even if they are all stored in one directory.

This device supports as many subdirectories as your burner software can create despite the fact that the maximum directory depth defined by the ISO 9660 standard is only 8.

If you like your files to be in the correct order, you should use burner software that places files in alphanumerical order.

If your software does not provide this feature you also have the option of sorting the files manually. For this purpose, you must enter a number in front of each file name, e.g. "001", "002", etc. The leading zeros must also be entered.

When creating (encoding) MP3 files from audio files, you should use bit rates up to a maximum of 256 Kbit/sec.

To ensure trouble-free playback, observe the following notes:

- This device can only play MP3 files that have the ".MP3" file extension.
- Do not try changing the file extension to ".MP3" of any files other than MP3 files and then attempt to play them! (The device will ignore these invalid files during playback.)
- Do not use "mixed" CDs containing both non-MP3 data and MP3 tracks (the device only reads MP3 files during MP3 playback).
- Do not use mix-mode CDs containing both CD-audio tracks and MP3 tracks. If you try playing a mix-mode CD, the device will only play the CD-audio tracks.

Starting the MP3/WMA mode

MP3 mode is activated in the same way as normal CD mode. For further information, please read the section entitled "Switching to CD mode" in the "CD mode" chapter.

Note:

After the MP3/WMA CD is drawn in, the playback starts automatically with the first title in the first directory recognised by the device.

Selecting a directory

- ➡ Press the button  5 or  4 to select the next or previous directory.

Notes:

- The directories are shown on the display of a connected CVX 02 (optional) behind "D" (Directory).
- The device will automatically skip any directories that do not contain MP3 files. The device will automatically correct the number of directories for the display. This number might therefore no longer be identical to the number of directories that you actually created. All directories are set to one level so that the order may change.
- If "NAME ON" is selected in the DSC menu, the file name is displayed.

Selecting tracks

- Press the button >> (6) or << (3) to select the next or previous track.

If you press the << button (3) once, the current track is played again from the beginning.

Notes:

- The titles are shown on the display of an optionally connected CVX 02 behind "T".
- If "NAME ON" is selected in the DSC menu, the file name is displayed.

Fast seek tuning (audible)

To fast search backwards or forwards,

- press and hold down the button >> (6) or << (3) until fast searching backwards/forwards begins.

Random track play (Mix)

You can play all the tracks of an MP3 CD in random order. The MIX function must be activated for this purpose. For further details, please read the following section "MP3 menu for CCU" in this chapter.

MP3 menu for CCU

(menu diagram on the last pages of the instructions)

All functions of the MP3 mode can be controlled with the buttons (3) - (6) as well as the MP3 menu.

Calling up the MP3 menu

To change to the MP3 menu,

- during the MP3 mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the MP3 menu

- "*SELECT": Confirm this menu item to reach the directory and track selection. To select in the directory structure, turn and press the rotary/pushbutton (25) or (10). To confirm, press the rotary/pushbutton (25) or (10).
- "PAUSE": Pauses the playback.
- "PLAY": Continues the playback.
- "STOP": Stops the playback.
- "MIX ON/OFF": Switches random track play on/off.

- **"* AUD"**: Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The **"* AUD"** setting in the MP3 menu is only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

CVX 02 mode

You can connect a CVX 02 (optional) and use it to play back DVDs, MP3/WMA CDs and audio CDs.

Additional information about the CVX 02 can be found in the operating instructions of the CVX 02.

The CVX 02 is factory set as the first video source at the CCU 02.

Starting CVX 02 mode

- Insert a DVD, MP3 CD or audio CD into the drive of the CVX 02.
- Press the **VIDEO** button (19) for the cockpit or the **VIDEO** button (16) for the cabin area.

The playback starts automatically.

Note:

For many DVDs, the main menu is displayed. To select individual menu items, use the remote control supplied with the CVX 02.

DVD mode CVX 02

Interrupting playback (pause)

➤ Press the **V** button (4).

Starting playback (Play) after Stop or Pause

➤ Press the **^** button (5).

Selecting a chapter

The DVD can be divided into several chapters.

To jump to the next or previous chapter,

➤ press the button **>>** (6) or **<<** (3) to select the next or previous chapter.

If you press the **<<** button (3) once, the current chapter is played again from the beginning.

Fast search

To fast search backwards or forwards at eight times the speed,

➤ press and hold down the button **>>** (6) or **<<** (3) until fast searching backwards/forwards begins.

Random playback (Mix)

You can play chapters in random order. The MIX function must be activated for this purpose. For further details, please read the following section "DVD menu for CVX".

➤ For this purpose, select the MIX ON/OFF menu item in the DVD menu.

DVD menu for CVX

All functions of the CVX mode can be controlled with the buttons (3) - (6) as well as the DVD menu.

The menu diagram is located on the last pages of the instructions.

Calling up the DVD menu

To change to the DVD menu,

➤ during the CVX mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the DVD menu for CVX

- "CHAPTER-": Selects the previous chapter, restarts the current chapter.
- "CHAPTER+": Selects the next chapter.
- "PAUSE": Pauses the playback.
- "PLAY": Continues the playback.
- "STOP": Stops the playback.
- "MIX ON/OFF": Switches random track play on/off.
- "* AUD": Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The "* AUD" setting in the DVD menu for CVX is only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

CD mode CVX 02

After inserting a CD, the playback starts automatically with the first track.

Ending playback (Stop)

➤ Press the **∨** button (4).

Starting playback (Play) after Stop

➤ Press the **∧** button (5).

Selecting tracks

To jump to the next or previous track,

➤ press the button **>>** (6) or **<<** (3) to select the next or previous track.

If you press the **<<** button (3) once, the current track is played again from the beginning.

Fast search

To fast search forwards or backwards at eight times the speed,

➤ press and hold down the button **>>** (6) or **<<** (3) until fast searching backwards/forwards begins.

Random track play (Mix)

You can play all the tracks of a CD in random order. The MIX function must be activated for this purpose.

Settings in the CD menu (CVX 02)

- **"* SELECT"**: Confirm this menu item to reach the track selection.

Turning the rotary/pushbutton (25) or (10) selects a desired track.

To confirm, press the rotary/pushbutton (25) or (10).

- **"PAUSE"**: Pauses the playback.
- **"PLAY"**: Continues the playback.
- **"STOP"**: Stops the playback.
- **"MIX ON/OFF"**: Switches random track play on/off.
- **"* AUD"**: Allows to perform the settings identical to the AUD button for cockpit or cabin.

MP3/WMA mode CVX 02

After inserting a CD, the playback starts automatically with the first track in the first directory of the MP3/WMA CD.

Ending playback (Stop)

➔ Press the **V** button (4).

Starting playback (Play) after STOP

➔ Press the **^** button (5).

Selecting tracks

To jump to the next or previous track in the current directory,

➔ press the button **>>** (6) or **<<** (3) to select the next or previous track.

If you press the **<<** button (3) once, the current track is played again from the beginning.

Fast search

To fast search forwards or backwards at eight times the speed,

➔ press and hold down the button **>>** (6) or **<<** (3) until fast searching backwards/forwards begins.

Random track play (Mix)

You can play all tracks of the current directory of an MP3/WMA CD in random order. The MIX function must be activated for this purpose. For further details, please read the following section "MP3 menu for CCU" in the chapter "MP3 mode CCU 02".

MP3 menu for CVX

All functions of the CVX mode can be controlled with the buttons (3) - (6) as well as the CVX Remote menu. The menu diagram is located on the last pages of the instructions.

Calling up the MP3 menu

To change to the MP3 menu,

➔ during the CVX mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the MP3 menu for CVX

- **"*SELECT"**: Confirm this menu item to reach the directory and track selection.
Turning the rotary/pushbutton (25) or (10) selects a desired track.
To confirm, press the rotary/pushbutton (25) or (10).
- **"PAUSE"**: Pauses the playback.
- **"PLAY"**: Starts the playback.
- **"STOP"**: Stops the playback.
- **"MIX ON/OFF"**: Switches random track play on/off.
- **"* AUD"**: Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The **"* AUD"** setting in the MP3 menu is only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

CD changer mode (option)

Two CD changers CDC (24 volt) can be connected to the CPA 121 as accessories (not part of the scope of delivery). One CD changer can be connected to the CPA 81.

Caution!

When connecting the CD changer IDC A 09 (12 V),

- unplug the connector in the connecting cable of the IDC.
- Insert the supplied two-conductor cable with fuse holder into the connector.
- Connect the operating voltage (+, -) for the changer (12 V/min. 3 A) to the two free ends of the cable via a voltage transformer (see also the Changer Operating Instructions, Fig. 1).

Note:

Information on handling CDs, inserting CDs and operating the CD changer can be found in the operating instructions supplied with your CD changer.

Switching to CD-changer mode

- Press the button **CDC** (20) for the cockpit or **CDC** (15) for the cabin area again.

The playback starts with the first track of the first CD.

Changing between CD changer 1 and 2

- Press the button **CDC** (20) for the cockpit or **CDC** (15) for the cabin area again.

The respective other CD changer is activated.

Selecting CDs

To move up or down to another CD,

- press the button \wedge (5) or \vee (4) once or several times.

Selecting tracks

To move down or up to another track on the current CD,

- press the button << (3) or >> (6) once or several times.

Fast seek tuning (audible)

To fast search backwards or forwards,

- press and hold down the button << (3) or >> (6) until fast searching backwards/forwards begins.

Fast searching ends if you release the respective button again.

Random track play (Mix)

You can play all the tracks of a CD in random order. The MIX function must be activated for this purpose. The MIX function can be set separately for each connected CD changer.

The setting is always performed for the active CD changer. For further details, please read the section "CDC menu" in this chapter.

CDC menu

All functions of the CD changer mode can be controlled with the buttons (3) - (6) as well as the CDC menu.

Calling up the CDC menu

To change to the CDC menu,

- during the CD changer mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the CDC menu

- "*** SELECT**": Confirm this menu item to reach the track selection.

To select in and on the CDs, turn and press the rotary/pushbutton (25) or (10).

To confirm, press the rotary/pushbutton (25) or (10).

- "**PAUSE**": Pauses the playback.
- "**PLAY**": Starts the playback.
- "**STOP**": Stops the playback.
- "**MIX ON/OFF**": Switches random track play on/off.
- "*** AUD**": Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The "*** AUD**" setting in the CDC menu is only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

Video/DVD mode

For video or DVD playback, you can connect two devices in addition to the CVX 02. You can configure the devices in the DSC menu. For further details, please read the chapter "DSC menu".

The instructions for the respective device explain how to operate the video device or the DVD device.

Note:

If you want to connect two additional image sources, you must connect an audio/video selector switch.

Starting video/DVD mode

- Press the **VIDEO** button (19) for the cockpit or the **VIDEO** button (16) for the cabin area repeatedly until the desired video source is displayed.

Changing between CVX, video 1 and 2

- Press the **VIDEO** button (19) for the cockpit or the **VIDEO** button (16) for the cabin area repeatedly again until the desired video source is displayed.

Starting playback (Play)

- Press the **▲** button (5).

Interrupting playback (Stop)

- Press the **▼** button (4).

Fast search

To fast search backwards or forwards,

- press and hold down the button << (3) or >> (6) until you have reached the desired location.

Video menu

All functions of the video mode can be controlled with the buttons (3) - (6) as well as the Video menu.

Calling up the Video menu

To change to the Video menu,

- during the Video mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the Video menu

- "FR": Fast searching backwards.
- "FF": Fast searching forwards.
- "STOP": Stops the playback.
- "PLAY": Continues the playback.
- "* AUD": Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The "* AUD" setting in the Video menu is only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

TV mode

You can connect a TV tuner and configure it in the DSC menu. For further details, please read the chapter "DSC menu".

The instructions for the respective device explain how to operate the TV tuner or the DVD device.

Starting TV mode

- Press the **VIDEO** button (19) for the cockpit or the **VIDEO** button (16) for the cabin area repeatedly until the desired video source is displayed.

Station seek tuning

Seek tuning forwards

- Press the >> button (6).

Seek tuning backwards

- Press the << button (3).

Ending seek tuning

- Press the opposite button.

Selecting a program location

- Press the **▲** button (5) to select the next program location.
- Press the **▼** button (4) to select the previous program location.

TV menu

All functions of the TV mode can be controlled with the buttons (3) - (6) as well as the TV menu.

Calling up the TV menu

To change to the TV menu,

- during the TV mode in the cockpit or cabin area, press the corresponding rotary/pushbutton (25) for the cockpit or (10) for the cabin.

The first menu item from the menu is displayed.

Settings in the TV menu

- "<SEARCH": Station seek tuning backwards.
- "SEARCH>": Station seek tuning forwards.
- "PROG-": Selects previous program location.
- "PROG+": Selects next program location.
- "* AUD": Allows to perform the settings identical to the AUD button for cockpit or cabin.

Note:

The "* AUD" setting in the TV menu is only possible if the expanded menu is activated. For further details, read the section "Expanded menu" in the chapter "DSC menu".

Operating a TravelPilot

A TravelPilot Coach Professional can be connected to the CCU 02 for navigation.

The navigation output is in the cockpit on the monitor of the TravelPilot or on the optional CLX LCD monitor. In the cabin area, the map display of the TravelPilot can be shown on the connected monitors.

To operate the TravelPilot,

- press the **NAV** button (24).

Note:

Information about the use of the TravelPilot can be found in the operating instructions of the TravelPilot.

The buttons (3) - (6) of the CCU 02 correspond to the arrow buttons on the remote control of the TravelPilot.

Selecting and confirming menu items as it is done with the **OK** button of the TravelPilot remote control, is carried out by pushing the left rotary/pushbutton (25).

The buttons (17) information (i) and (18) traffic jam detours (🚧, ⚠) correspond to those on the TravelPilot remote control.

Calling the map display

To show the map display of the TravelPilot on the monitors in the cabin area (only in conjunction with the CLX or an RGB/FBAS converter),

- press the **MAP** button (9).

DSC menu

The settings of the CCU 02 can be changed in the DSC menu.

Calling the DSC menu

To change to the DSC menu,

➤ press the **DSC** button (12).

The first menu item from the menu is displayed.

Note:

Menu items with submenus are identified with an asterisk symbol "*".

Selecting menu items in the DSC menu

To select menu items,

➤ while the menu is displayed, turn the right rotary/pushbutton (10).

The next or previous menu item is displayed.

Changing or confirming settings in the DSC menu

If you want to change or confirm a menu item,

➤ press the right rotary/pushbutton (10).

Accepting the change, exiting the menu

To accept changed settings and to exit the menu,

➤ briefly press the **ESC** button (11).

The next higher level of the menu is displayed.

To completely exit the DSC menu,

➤ hold the button **ESC** (11) pressed until a sounds.

Cabin monitor control

➤ Press the **DSC** button (12) to reach the menu item "MON ON", "MON OFF", "MON SYNC".

- "MON ON": Monitors are permanently activated.
- "MON OFF": Monitors are permanently deactivated.
- "MON SYNC": Monitors are activated with the selection of a video source and deactivated with deselection.

Radio

Some functions and basic settings of the radio mode are controlled via the DSC Radio menu.

Calling up the DSC Radio menu

To change to the DSC Radio menu,

➤ press the **DSC** button (12).

➤ Select and confirm the menu item "* DSC".

The display shows "CODE".

➤ Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation.

➤ Select and confirm the menu item "* RADIO".

Settings in the DSC Radio menu

- "TA ON/OFF": Selection between TA function On and Off.
- "AF ON/OFF": Selection between AF function On and Off.
- "REG ON/OFF": Switches the regional function REG On or Off.

- "SHARX ON/OFF": Switches the SHARX function on or off.
- "BEST/SENSE": Select SENSE so that the radio can also receive weak stations.
- "EUROPE / NAFTA": Select the frequency band EUROPE or NAFTA countries.

Multi-channel audio system

If the bus is equipped with a multi-channel audio system (MAS) for the connection of headphones at the seats, you must activate MAS in the DSC menu.

Note:

If MAS is activated, all audio sources connected to the CCU 02 are permanently in operation.

- Press the **DSC** button (12).
- Select "* DSC" with the right rotary/pushbutton (10).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation.
- Select "* SYSTEM" with the right rotary/pushbutton (25).
- Press the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10) repeatedly until the desired setting "MAS ON" or "MAS OFF" is displayed.
- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

BEEP (confirmation tone)

The confirmation tone, which follows after certain actions, can be switched on or off.

- Press the **DSC** button (12).
- Select "* DSC" with the right rotary/pushbutton (10).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation.
- Select "* SYSTEM" with the right rotary/pushbutton (25).
- Press the right rotary/pushbutton (10).
- Turn the right rotary/pushbutton (10) until "BEEP" appears.
- Press the right rotary/pushbutton (10).

To set the "BEEP" volume 1 - 9 or OFF,

- turn the right rotary/pushbutton (10) accordingly to the left or the right.
- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Setting color

For the button illumination of the CCU 02 and the button and display illumination of a connected CVX 02, you can select among the colours RED, GREEN and YELLOW.

- Press the **DSC** button (12).
- Select "* DSC" with the right rotary/pushbutton (10).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation.
- Select "* SYSTEM" with the right rotary/pushbutton (25).

- Press the right rotary/pushbutton (10).
- Select (10) "* COLOUR" with the rotary/pushbutton.
- Press the right rotary/pushbutton (10).
- Select the desired setting "RED", "GREEN" or "YELLOW" with the right rotary/pushbutton (10).
- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Setting AUX

Instead of the CD changer, you can connect a different external audio source with the line output (CPA 81: One source, CPA 121: Two sources). Audio sources can, for example, be portable CD players, MiniDisc players or MP3 players. To use this option, you must activate the AUX input.

Note:

If you connect an AUX source, it cannot be remotely controlled with the buttons (3) - (6).

- Press the **DSC** button (12).
- Select "* DSC" with the right rotary/pushbutton (10).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation.
- Select "* SYSTEM" with the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10).
- Select (10) "AUX 1" or "AUX 2" with the rotary/pushbutton.
- Press the right rotary/pushbutton (10) repeatedly until the desired setting "AUX ON" or "AUX OFF" is displayed.

- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Setting Video

You can also connect two video sources in addition to the CVX 02 to the CCU 02 via an audio/video selector switch.

For this purpose, you must set in the menu which video source is connected to VIDEO 1 or VIDEO 2.

The following devices can be connected: TV tuner (TV), DVD player (DVP), video player (MVP), DVD changer (DVC) and hard disk player (HDD).

If one of the video inputs is not in use, please select the "OFF" setting for this input.

- Press the **DSC** button (12).
- Select "* DSC" with the right rotary/pushbutton (10).

The display shows "CODE".

- Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation.
- Select "* SYSTEM" with the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10).
- Select (10) "* VIDEO 1" or "* VIDEO 2" with the rotary/pushbutton.
- Press the right rotary/pushbutton (10).
- Select the connected video source with the right rotary/pushbutton (10) or select "OFF" if no source is connected to the corresponding input.
- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Expanded menu

The CCU 02 offers the option to expand the menu of each source.

If you select the "Expanded menu" option ("HMI EXTENDED"), you can call up the audio settings for every source in the remote menu of each source and change them (same as the AUD button) and select another source ("SOURCE") (same as source buttons on the device).

To switch the "Expanded menu" on or off,

- press the **DSC** button (12).
 - Select "*DSC" with the right rotary/pushbutton (10).
 - Press the right rotary/pushbutton (10).
- The display shows "CODE".

➤ Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.

➤ Select "*HMI" with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

➤ Select "EXTENDED" for the expanded or "SHORT" for the simplified menu with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

➤ Select (10) "NAME ON" with the rotary/pushbutton to display the track name or "NAME OFF" to display the track number.

➤ To confirm, press the right rotary/pushbutton (10).

Note:

"NAME ON/OFF" applies to CCU and CVX as well as to CDs with CD text and MP3 CDs. The media must support the function.

- Hold the **ESC** (11) button pressed until a beep sounds and the menu is exited.

Saving DSC settings

You can save your DSC settings and access them again by resetting.

- Press the **DSC** button (12).
- Select "*DSC" with the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10).

The display shows "CODE".

➤ Press the left (25) and the right rotary/pushbutton (10) at the same time for confirmation until a beep sounds.

➤ Select "SAVE DSC" with the right rotary/pushbutton (10).

➤ Press the right rotary/pushbutton (10).

The settings are saved.

- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Restoring DSC settings

You can restore your previously saved DSC settings.

- Press the **DSC** button (12).
- Select "RESTORE" with the right rotary/pushbutton (10).
- Press the right rotary/pushbutton (10).

The settings are restored.

- Hold the **ESC** (26) button pressed until a beep sounds and the menu is exited.

Specifications

Coach Control Unit

CCU 02 MP3

Operating voltage: + 12 V via CPA

MP3/CD drive

Supported formats:

Audio-CD (CDDA),
CD-R, CD-RW, MP3/
WMA CD.

Shock Memory

Audio CD: 0 sec.

MP3/WMA: 3 - 5 sec.

Frequency ranges

EUROPE

FM: 87.5 - 108 MHz

MW: 531 - 1602 kHz

LW: 153 - 279 kHz

NAFTA

FM: 87.7 - 107.9 MHz

AM: 530 - 1710 kHz

Frequency response

Tuner: 30 Hz - 15 000 Hz

MP3/CD: 20 Hz - 20 000 Hz

Inputs

3 x MIC: 1 mV, low-resistance, dynamic

Control inputs/outputs:

CLX (Coach LCD Extension), NAV, MAS

Weight

1.3 kg

Standards:

e1, FCC, CE, WEEE, ROHS

Coach Power Amplifier

CPA 81 / CPA 121

Operating voltage: + 24 V

Current consumption standby:

≤ 100 mA incl.
CVX 02 and CCU 02

Current consumption max.

CPA 81: approx. 5.3 A incl.
CVX 02 and CCU 02

Current consumption max.

CPA 121: approx. 6.8 A incl.
CVX 02 and CCU 02
(1 max. without peripheral devices)

Rated output power

Cockpit (CPA 81/121):

2 x 20 W / ≥ 4 ohm

Cabin (CPA 81):

2 x 20 W / ≥ 4 ohm

Cabin (CPA 121):

4 x 20 W / ≥ 4 ohm

Specifications

Frequency response:

40 Hz - 25,000 Hz

Weight

CPA 81: 2.0 kg

CPA 121: 2.1 kg

Signal inputs:

CCU 02, CDC / AUX,
VIDEO

Standards:

7 607 005 074: e1, FCC, CE, WEEE

7 607 200 004: e1, FCC, CE, WEEE,
RoHS

Inputs EXTERN (cockpit only)

CPA 81: WARNER 430 mV,
PHONE 430 mV,
NAVIGATION 430 mV

CPA 121: Adjustable via
CCU 02

All EXTERN switching inputs:

Active low

Outputs

Relay contacts: VIDEO, MIC 1

Permissible load each: 24 V / 10 A

Voltage outputs:

14.5 V/1.5 A max.
permanent

CDC 2 x: 24 V / 1 A max. per-
manent

VIDEO: 24 V / 1 A max.
switched

Additional inputs/outputs:

Remote control

Line Out, controlled

Switching input

"stand-alone":

12 V, active high

Subject to changes!

Menu

Radio-Menu

Keys 3 - 6

Radio

<< ——— < SEARCH
 >> ——— SEARCH >
 V ——— BAND
 ^ ——— PRESET

Radio (long press)

<< ——— < TUNE (is not in display)
 >> ——— TUNE > (is not in display)
 V ——— TRAVEL-S
 ^ ——— STORE (is not in display)

Enter → and Rotate ↻ (10), (25)

Radio-Menu (initiated by enter)

* SEARCH ——— < SEARCH
 | SEARCH >
 * TUNE ——— :
 MHz 89.50
 MHz 89.40
 MHz 89.30
 MHz 89.20
 MHz 89.10
 :

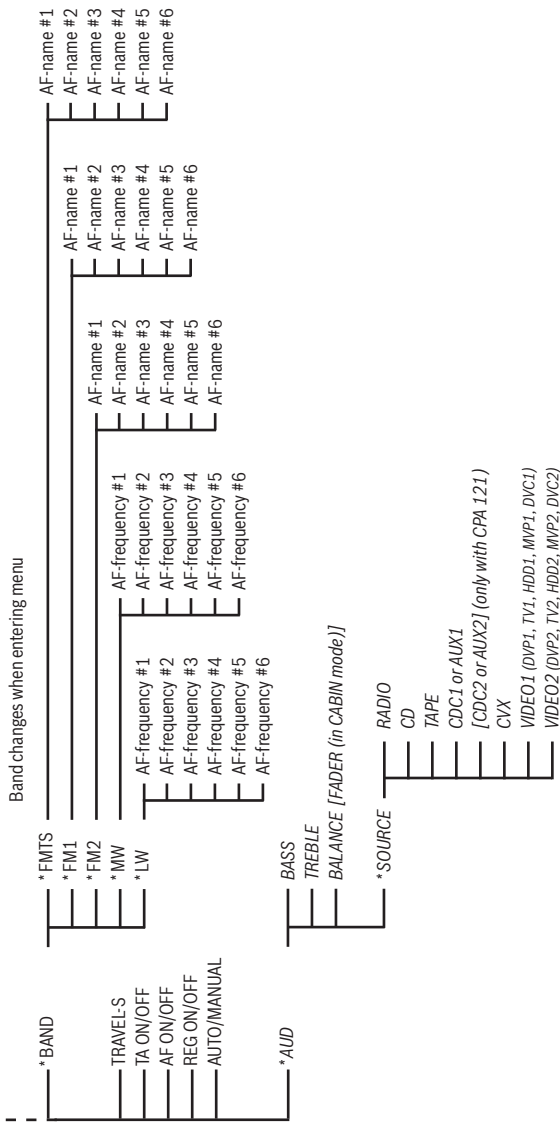
In TUNE select a frequency from list without enter

* STORE ——— AF-frequency #1
 | AF-frequency #2
 | AF-frequency #3
 | AF-frequency #4
 | AF-frequency #5
 | AF-frequency #6

Radio-Menu

Enter → and Rotate ↻ (10), (25)

↑ Radio-Menu (initiated by enter)



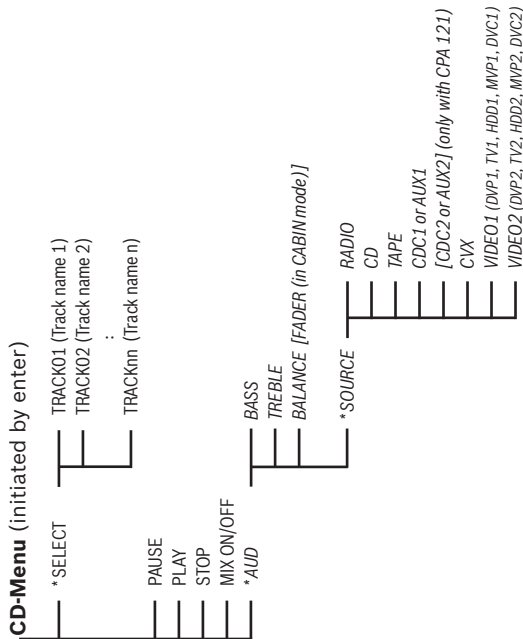
Menu

CD-Menu for CCU

Keys ③ - ⑥



Enter → and Rotate ↻ ⑩, ⑳



Menu

CD-Menu for CVX

Keys (3) - (6)

CD
 << — TRACK -
 >> — TRACK +
 V — PAUSE
 ^ — PLAY

CD (long press)

<< — FR (speed 8 times, no BEEP,
 terminate after release)
 >> — FF (speed 8 times, no BEEP,
 terminate after release)

Enter → and Rotate ↻ (10), (25)

CD-Menu (initiated by enter)

* SELECT — TRACK01 (Track name 1)
 — TRACK02 (Track name 2)
 :
 — TRACKnn (Track name n)

— PAUSE
 — PLAY
 — STOP
 — MIX ON/OFF
 * AUD

— BASS
 — TREBLE
 — BALANCE [FADER (in CABIN mode)]

* SOURCE — RADIO
 — CD
 — TAPE
 — CDC1 or AUX1
 — [CDC2 or AUX2] (only with CPA 121)
 — CVX
 — VIDEO1 (DVP1, TV1, HDD1, MNP1, DVC1)
 — VIDEO2 (DVP2, TV2, HDD2, MNP2, DVC2)

Menu

MP3 (WMA)-Menu for CCU

Keys 3 - 6

Enter → and Rotate ↻ 10, 25

MP3

<< — TRACK -
 >> — TRACK +
 V — DIR -
 ^ — DIR +

MP3 (long press)

<< — FR
 >> — FF

MP3-Menu (initiated by enter)

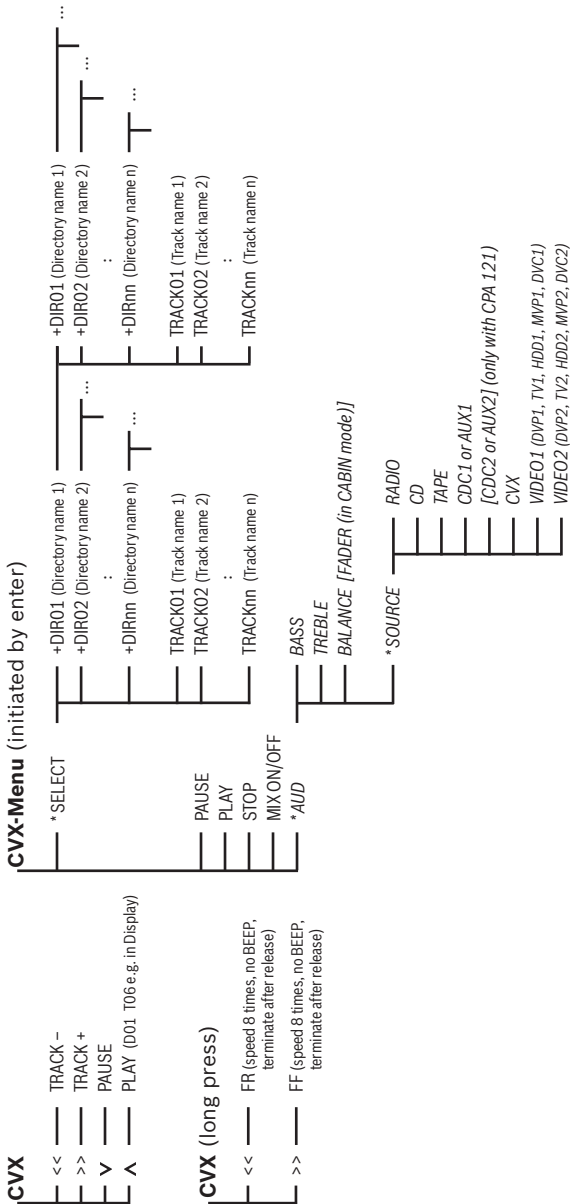
* SELECT — +DIR01 (Directory name 1) — TRACK01 (Track name 1)
 — +DIR02 (Directory name 2) — ... — TRACK02 (Track name 2)
 — +DIRnn (Directory name n) — ... — TRACKnn (Track name n)
 :
 PAUSE — TRACK01 (Track name 1)
 PLAY — TRACK02 (Track name 2)
 STOP — TRACKnn (Track name n)
 MIX ON/OFF — :
 *AUD — BASS — *SOURCE — RADIO
 — TREBLE — CD
 — BALANCE [FADER (in CABIN mode)] — TAPE
 — GDC1 or AUX1 — [CDC2 or AUX2] (only with CPA 121)
 — CVX — VIDEO1 (DVP1, TV1, HDD1, MVP1, DVC1)
 — VIDEO2 (DVP2, TV2, HDD2, MVP2, DVC2)

Menu

MP3 (WMA)-Menu for CVX

Keys ③ - ⑥

Enter → and Rotate ↻ ⑩, ②⑤



Menu

DVD-Menu for CVX

Keys 3 - 6

DVD
 << — CHAPTER -
 >> — CHAPTER +
 V — PAUSE
 ^ — PLAY

DVD (long press)
 << — FR (speed 8 times, no BEEP,
 terminate after release)
 >> — FF (speed 8 times, no BEEP,
 terminate after release)

Enter → and Rotate ↻ 10, 25

DVD-Menu (initiated by enter)

— CHAPTER -
 — CHAPTER +
 — PAUSE
 — PLAY
 — STOP
 — MIX ON/OFF
 — *AUD

— BASS
 — TREBLE
 — BALANCE [FADER (in CABIN mode)]
 — *SOURCE
 — RADIO
 — CD
 — TAPE
 — GDC1 or AUX1
 — [CDC2 or AUX2] [only with CPA 121]
 — CVX
 — VIDEO1 (DVP1, TV1, HDD1, MYP1, DVC1)
 — VIDEO2 (DVP2, TV2, HDD2, MYP2, DVC2)

Menu

CDC-Menu

Keys (3) - (6)

CDC1, CDC2
 << — TRACK -
 >> — TRACK +
 V — DISC-
 ^ — DISC+

CDC1, CDC2 (long press)

<< — FR
 >> — FF

Enter → and Rotate ↻ (10), (25)

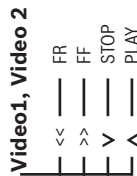
CDC1-, CDC2-Menu (initiated by enter)

* SELECT — * DISC01 — TRACK- TRACK+
 * DISC02 — TRACK- TRACK+
 ; — * DISC10 — TRACK- TRACK+
 PAUSE —
 PLAY —
 STOP —
 MIX ON/OFF —
 * AUD — BASS — RADIO
 TREBLE — CD
 BALANCE [FADER (in CABIN mode)] — TAPE
 * SOURCE — CDC1 or AUX1
 [CDC2 or AUX2] (only with CPA 121)
 CVX — VIDEO1 (DVP1, TV1, HDD1, MNP1, DVC1)
 VIDEO2 (DVP2, TV2, HDD2, MNP2, DVC2)

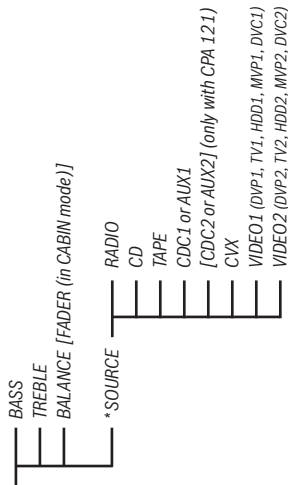
Menu

Video-Menu (DVPx, HDDx, MVPx, DVCx)

Keys ③ - ⑥



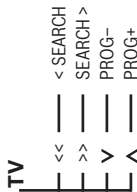
Enter → and Rotate ↻ ⑩, ⑫



Menu

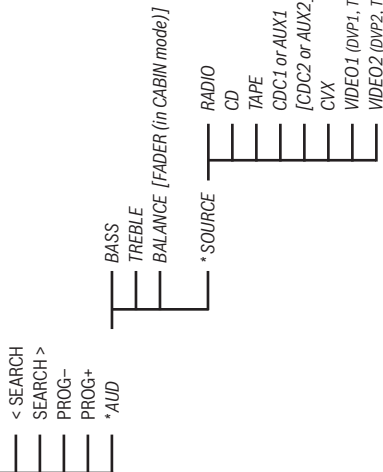
TV-Menu

Keys ③ - ⑥



Enter → and Rotate ↻ ⑩, ⑲

TV-Menu (initiated by enter)

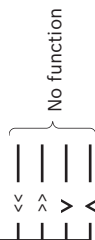


Menu

AUX-Menu

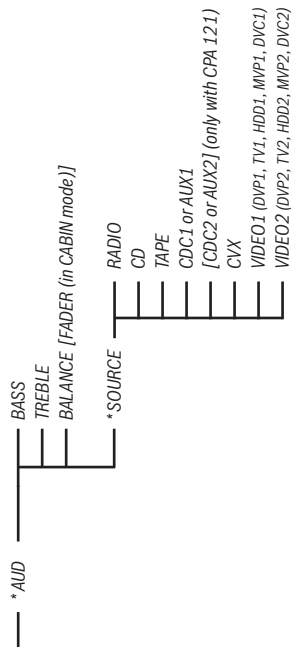
Keys ③ - ⑥

AUX1, AUX2



Enter → and Rotate ↻ ⑩, ⑳

AUX1-, AUX2-Menu (initiated by enter)

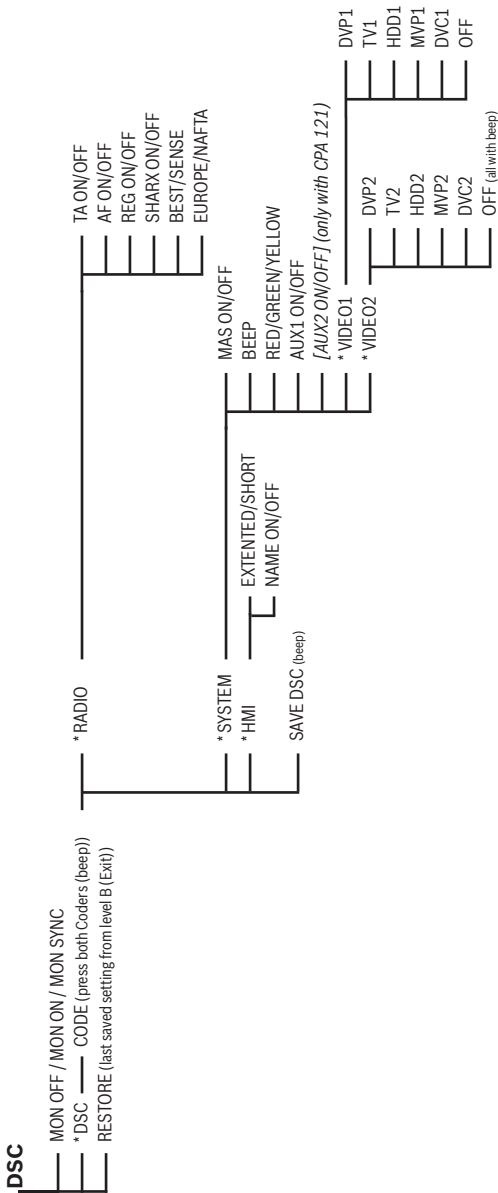


Menu

DSC-Menu

DSC Key (12)

Rotate and **Enter** → (10), (25)

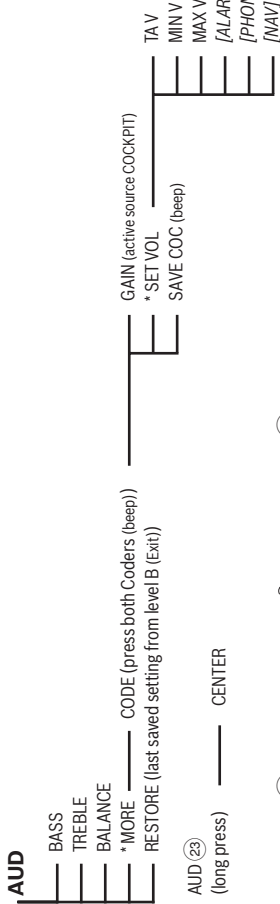


Menu

AUD-Menu

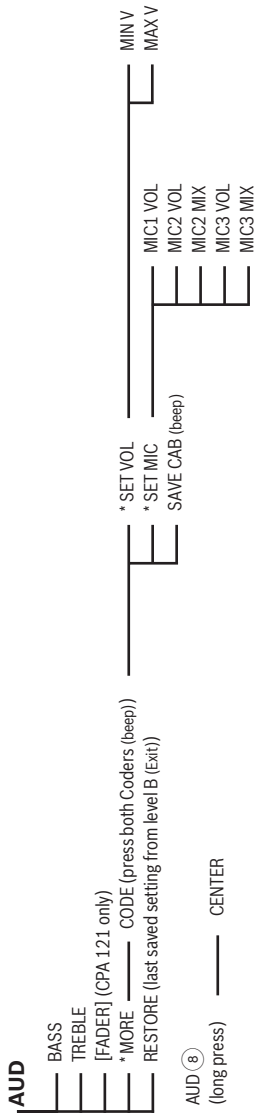
AUD Key (23) **Rotate** ↻ **and Enter** → (25)

Cockpit (symbol in display on)



AUD Key (8) **Rotate** ↻ **and Enter** → (10)

Cabin (symbol in display on)



Menu

MIC (only while active)

AUD (8)  BASS
TREBLE

AUD (8)  CENTER

(long press)
Separate center for each MIC

Extern (only while active, only with CPA121)

AUD (8)  BASS
TREBLE
BALANCE

AUD (8)  CENTER

MIC-MIX (only MIC2 and MIC3)

Press → **Rotate**  (10)

Extern-MIX (only PHONE and NAV, only with CPA121)

Press → **Rotate**  (10)

Service numbers

Country:		Phone:
Germany	(D)	0180-5 25 56 66
Austria	(A)	+43-1-61 03 90
Belgium	(B)	+32-5 25 54 47
Czech Republic	(CZ)	+36-76-88 97 02
Denmark	(DK)	+45-44 89 83 76
Finland	(FIN)	+358-9-56 05 04
France	(F)	+33-1 40 10 70 07
Great Britain	(GB)	+44-1274-68 89 90
Greece	(GR)	+30-21 09 42 73 37
Hungary	(HU)	+36-76-88 97 02
Ireland	(IRL)	+353-18-72 66 44
Italy	(I)	+39-23-92 54 99
Luxembourg	(L)	+352-40-40 78
Netherland	(NL)	+31-24 35 91 338
Norway	(N)	+45-44-89 83 76
Poland	(PL)	+48-22-8 77 12 60
Portugal	(P)	+351-18-51 86 75-66
Russia	(RUS)	+7-095-2 87 10 36
Spain	(E)	+34-972-86 05 76
Sweden	(S)	+45-44-89 83 76
Switzerland	(CH)	+41-43-45 54 40
Turkey	(TR)	+90-212-6 58 23 30
USA	(USA)	+1-800-5 62 59 78

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07/06 - CM-AS/SCS (Index A)

(dt, gb, fr, es, it, pt)



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