

3. AUDIO SYSTEM (AUDIO)

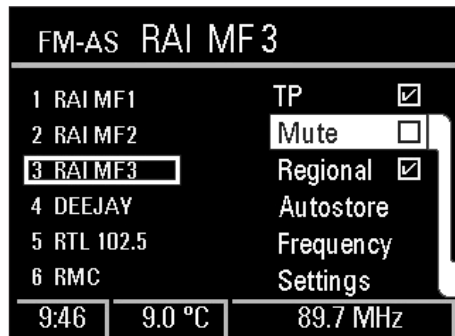
General information

The audio system is activated pressing key **23** with which access is gained to the main radio functions. The I.C.S. audio system controls:

- the RDS radio with FM/MW reception;
- the cassette player with autoreverse;
- the automatic CD loader with six available slots (optional for versions/markets where applicable);
- the DSP amplifier (optional for versions/markets where applicable).

Screen items and functions

- wave band selector function (FM, MW) through keys **3** and **4** respectively;
- display of name of broadcaster and number of station memorised;
- function for memorising up to 36 radio stations (18 for FM range and 12 for MW range);



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- display of pause symbol in cassette mode;
- display of direction of tape with different symbols depending on winding speed;
- display of symbols for CD and cassette;
- display of CD number, title number and playing time;
- scan and shuffle function;
- Dolby B NR function for suppressing noise when listening to tapes;
- stand-by engagement function for traffic information bulletins (TP) with possibility of deactivation;

— sound setting functions: loudness, treble, bass, balance, fader and SDV (volume depending on speed);

— Digital Sound Processing DSP function (optional for versions/markets where applicable);

— display of status signals, such as current time, outside temperature, etc.

3.1 RADIO FUNCTIONS

RDS system

The radio system integrated in the I.C.S. makes it possible to receive RDS (RDS = Radio Data System) signals in the UKW range.

With the RDS system the broadcaster can insert additional information (station name or messages) suitably modulating then with the radio signal. This information is then received by the RDS system and shown on the display.

AUTO BEST function

When receiving a radio channel with the AUTO BEST function it is possible to obtain a low signal/noise (S/N) ratio, automatic seeking and tuning on alternative frequencies where the chosen radio station is broadcast-

ing with a better S/N ratio. When seeking a new tuning frequency broadcasting may be briefly interrupted temporarily.

The AUTO BEST function is activated automatically when the radio function is selected or when a station is selected through a choice key and when the cassette player or CD player is working.

All the RDS broadcasters show their name or message on the display. The current reception frequency is only displayed if information about the name of the station tuned is not.

EON (Enhanced Other Network)

The radio integrated in the I.C.S. system can receive EON information.

The signals concerning the EON infotraffic system make reception possible from radio channels, on which you are not tuned at the moment, information about the traffic and roads, interrupting the programme of the chosen station. This function, available to RDS channels can be disabled according to preference.

Example: programme set RTL - RAI infotraffic programme

If the infotraffic function is enabled while listening to a programme on the RTL station and in that moment a traffic bulletin is broadcast on the RAI channel, the system moves automatically from RTL to RAI. At the end of the traffic bulletin it automatically returns from RAI to RTL.

3.1.1 Radio main function page

The main functions are arranged so as to allow the clear and simple display of information concerning the radio system. When the radio is operating (CD or CC not activated) the wave band, name or frequency of the current station are displayed. The list of memorised stations and the selection modes "TP" (Infotraffic), "Mute", "Regional", "Auto-store", "Frequency" and "Settings" are also displayed. In the lower part of the display shows general information such as the time, outside temperature, frequency or other current status information.

"TP" ☐

The traffic information box (TP) deactivated

indicates that you do not want to receive traffic bulletins. Station seeking will no longer indicate whether it is a TP broadcaster and CC and CD playing will not be interrupted by traffic information.

"TP" ☒

The traffic information box (TP) activated with knob **11** indicates that you want to receive traffic bulletins. Automatic seeking selects a TP broadcaster and displays this prerogative: CC and CD playing will be interrupted by any traffic bulletins. The abbreviation "TP" appears on the MAIN page.

TP bulletins in progress can be interrupted pressing the volume control **21**. Volume adjustment of a TP bulletin is independent of the audio source (radio, CC, CD) and is obtained using the volume control **21** during a TP bulletin.

"Mute"

The "Mute" function can be selected only if TP is enabled and a TP station is set. When the "Mute" function is activated only traffic bulletins will be heard. The radio "Mute" function is disabled turning the volume control **21**.

“Regional”

The “Regional” function is automatically displayed if the radio programming of a terminate station is broadcast locally. In this case the AUTO BEST RDS function does not seek a station with a high S/N ratio but continues to broadcast the local channel selected. Reception of local channels can be deactivated selecting “Regional” again making it possible to move to different local stations depending on the best S/N ratio.

Warning The AUTO BEST RDS function operates at national level. Moving to different regional stations may therefore occur. In this case it is necessary to reactivate the “Regional” function.

“Autostore”

The “Autostore” is active only by selecting the FM wave band with button **3**. This function makes it possible to automatically start the memorising of 6 stations on 6 FM memorising buttons available. Selection takes place on the basis of the best S/N ratio starting from the last frequency explored in the FM band: it is possible that the same station be recorded more than once.

“Frequency”

The “Frequency” can be used to manually select the frequency with the right knob **11**, though it is still possible to seek the station with keys **19** and **20**.

“Settings”

The “Settings” function opens the “Audio settings” page (see paragraph 3.3).

3.1.2 Radio function controls

Switching wave band

The radio system has two wave bands UKW and MW totalling 5 bands in each of which up to 6 stations can be memorised.

The band selection function takes place through keys **3** or **4** with which the following is carried out:

- switching between FM-A, FM-B and FM-AS with the FM key;
- switching between LW and MW with the AM key.

Switching between stations and memorising

The station switching and memorising func-

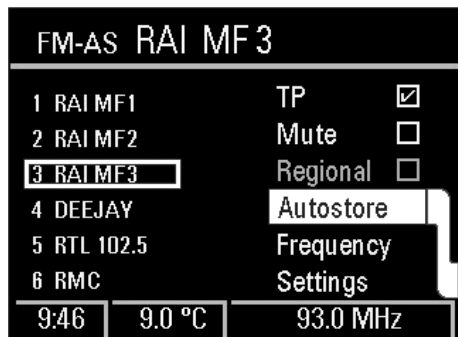
tion is obtained pressing keys **5** to **10** as follows:

- memorised station selection function pressing for less than 2 seconds;
- broadcasting station with RDS memorising function pressing for more than 2 seconds;
- current frequency memorising function pressing for more than 10 seconds; in this case the main function page displays the letter “F” next to the station number and next to the frequency of the broadcaster memorised.

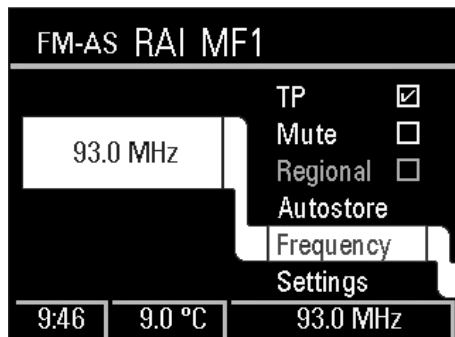
Station seeking

The station seeking function is activated pressing keys **19** or **20** and proceeding as follows:

- pressing for less than 2 seconds starts station seeking with decreasing frequency selection (key **19**) or growing frequencies (key **20**);
- pressing for more than two seconds starts the “scan” function, i.e. every station is tuned to allow listening for only a few seconds. The “scan” function is interrupted pressing keys **19** or **20** again.



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3.1.3 Seeking and memorising stations

Automatic - Autostore

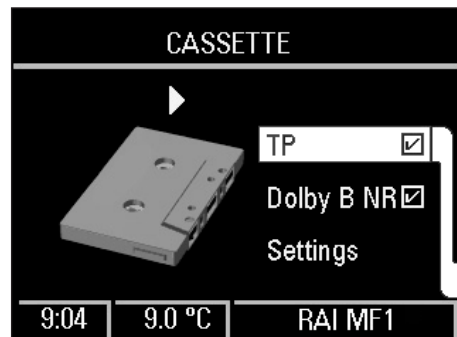
The "Autostore" function makes it possible to automatically programme the keys with the frequencies of the radio stations with the best S/N ratio (dwg. 3.B.).

Manual

With the manual function you can select the required wave band, pressing keys **3** or **4**. The frequency is selected turning knob **11**. After selection the display shows the frequency and, if it is an RDS station, also the station name. Station frequency memorising takes place pressing one of the station keys **5** to

10 for more than 2 seconds and it is also possible to recall memorised stations with these keys (dwg. 3.C.).

During memorising the volume is lowered automatically to allow easier and clearer choice of the station. Confirmation that memorising has taken place is obtained by checking that the memorised station name or frequency is displayed on the radio main function page.



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3.2 CASSETTE PLAYER FUNCTIONS

3.2.1 CC main function page

The CC main function page is obtained pressing key **23** only if the cassette player is operating (dwg. 3.D). Under the "CASSETTE" window which indicates that selection of the cassette player has taken place, the direction of the tape is displayed (with the arrow), the options "TP" (infotraffic), "Dolby B NR" and "Settings".

The lower display window also displays the time, outside temperature and further current status information.

“TP ☐ ” / “TP ☒ ”

See the explanations of chapter 3.1.1.

“Dolby B NR ☐ ” / “Dolby B NR ☒ ”

The “Dolby B NR” function is selected with knob **11**. Activation of the function makes it possible to reduce the noise caused by running of the tape. When playing tapes recorded with the Dolby B technique, you are advised to activate this function to obtain better sound. When playing tapes that were not recorded with the Dolby technique you are advised to disable the function.

“Settings”

Selecting “Settings” makes it possible to access the “Audio settings” function page (see chapter 3.4).

3.2.2 Cassette player controls

Play back and changing tape direction (autoreverse)

Play back is started after inserting the cassette, with the tape at the right, in the spe-

cial slot and it can be in both directions. The direction is changed pressing key **18** or automatically at the end of the tape (autoreverse). The display shows the tape direction with the arrow.

Fast forward/fast rewind

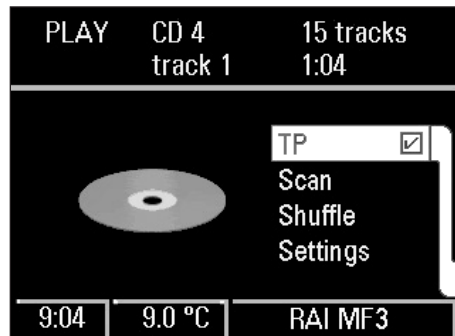
Fast tape running in the two directions is obtained pressing the search keys **19** or **20**. The fast function is interrupted by starting play back if key **19** is pressed again.

Cassette eject

Cassette ejection is obtained pressing key **17**.

Switching the audio source

Switching from CC to CD is obtained pressing key **1**. The switching function from CC to radio is obtained pressing keys **3** or **4**.



3.E.

3.3 HOW THE CD PLAYER WORKS (optional for versions/markets where applicable)

3.3.1 CD player main function page

The CD main function page is obtained, if the CD loader is connected and at least one CD is available, pressing key **1** (dwg. 3.E.).

The CD main function page displays the number of the CD in the loader, the current track number and the duration of the current piece, a CD symbol, the options “TP”, “Scan”, “Shuffle” and “Settings”. The lower window of the page shows the time, outside temperature and further current status information.

"TP □ " / "TP ☑ "

See explanations in paragraph 3.1.1.

"Scan"

The "Scan" function for the CD being played is obtained using knob **11**. With this function all the pieces of the CD are played for about 10 seconds.

"Shuffle"

The "Shuffle" function for the CD being played is obtained using knob **11**.

With this function the pieces of the CD are played in random order.

"Settings"

The "Settings" selection function opens the "Audio settings" function page (see chapter 3.4).

3.3.2 CD player controls

Selecting and playing a CD

Selecting and playing a CD is only possible with the CD loader connected and at least one CD inside. The loader can hold up to 6 CD's and they can be played choosing the corresponding CD with keys **5 - 10**. The number of the CD being played is shown in the upper window of the CD main function page.

Changing title/fast forward and fast backward

The option for the piece before or after the current one is obtained pressing keys **19** or **20** for less than 1 second;

Fast forward or backward from the current track is obtained pressing keys **19** or **20** for more than 1 second.

Switching the audio source

Switching the audio source from CD to CC is obtained pressing key **2**.

Switching the audio source to radio is obtained pressing keys **3** or **4**.

Use of the CD loader

The CD loader is on the left-hand side of the boot.

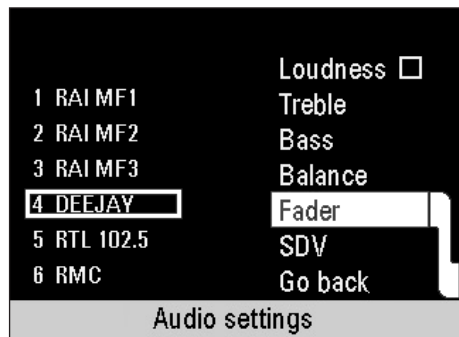
CD loader ready for working

The CD loader is ready for working if it contains at least one CD. Make sure that the CD is correctly inserted and that the loader lid is closed after inserting the CD holder.

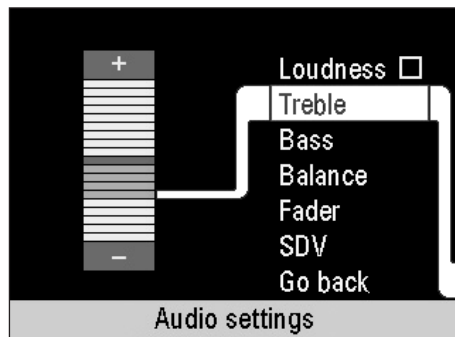
Loading/unloading the CD loader

The CD loader is loaded/unloaded proceeding as follows:

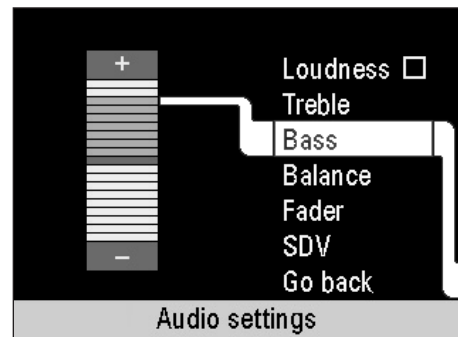
- remove the CD loader sliding the lid to the right;
- press the eject key: the loader will be pushed out;
- remove the CD loader;
- insert the CD's in the correct direction and starting from the first free compartment to enable quick loading between one CD and the next.



3.F.



3.G.



3.H.

3.4 AUDIO SETTINGS

3.4.1 Without DSP (Digital Sound Processing)

The functions concerning audio settings without the DSP amplifier are activated selecting "Settings" on the main audio function page (radio, CC or CD) (dwg. 3.A.). This introduces a new page with the selections "Loudness", "Treble", "Bass", "Balance", "Fader", "SDV" and "Go back". Some symbols are also shown associated with the devices operating (CC, CD or radio).

"Loudness"

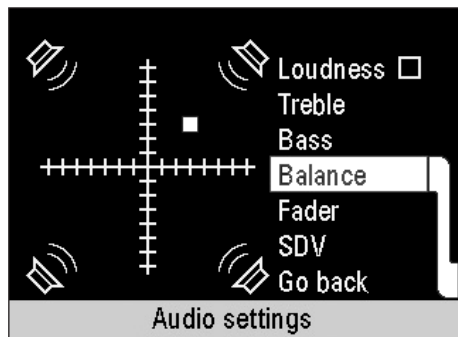
If this function is enabled pressing knob **11** (Loudness ☒) it improves the sound volume increasing the bass tones.

"Treble"

The treble function displays a "sliding regulator" for setting the treble tones. Setting is carried out with knob **11** moving the cursor to the position required and pressing to end the setting (dwg. 3.G.)

"Bass"

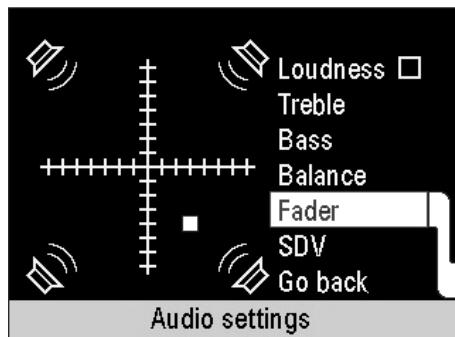
The bass function displays a "sliding regulator" for setting the bass tones. Setting is carried out with knob **11** moving the cursor to the position required and pressing to end the setting (dwg. 3.H.)



3.I.

“Balance”

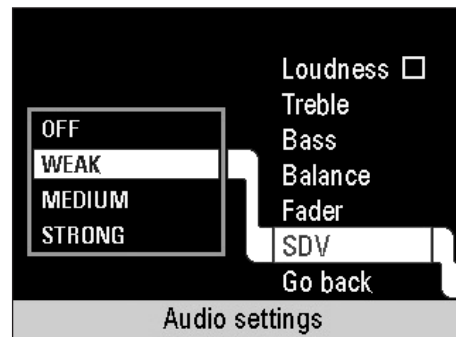
The “Balance” function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the right and left speakers. The distribution set is shown by a small square cursor. The setting operation ends pressing knob **11** (dwg. 3.I.).



3.J.

“Fader”

The “Fader” function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the front and rear speakers of the passenger compartment. The distribution set is shown by a small square cursor. The setting operation ends pressing knob **11** (dwg. 3.J.).



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“SDV”

The “SDV” function SDV displays a list for setting volume adjustment in relation to speed. The “SDV” function makes it possible to automatically increase the volume as the speed increases to maintain the ratio with the noise level inside the passenger compartment. It is possible to select 4 levels: “OFF” (deactivated), “WEAK”, “MEDIUM” and “STRONG” (dwg. 3.K.).

“Go back”

The “Go back” function takes you back to the main page of the audio functions (radio, CD or CC) (dwg. 3.A.).

3.4.2 With DSP (Digital Sound Processing) (Optional for markets/versions where applicable)

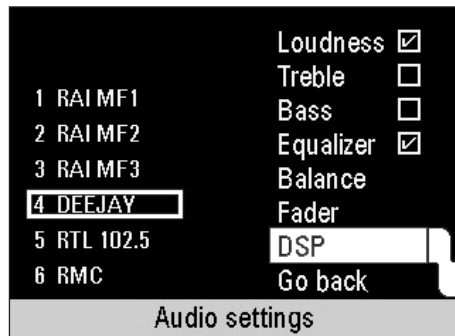
The functions concerning audio settings with the DSP amplifier are activated selecting "Settings" on the main audio function page (radio, CD or CC) (dwg. 3.A.). This introduces a new page with the items "Loudness", "Treble", "Bass", "Equalizer", "Balance", "Fader", "DSP" and "Go back". Some symbols are also shown associated with the devices operating (CC, CD or radio).

"Loudness"

If this function is enabled pressing knob **11** (Loudness ☒) , it improves the sound volume increasing the bass tones.

"Treble"

The treble function displays a sliding regulator on the right of the page. The "Treble" (Treble ☒) function is activated through knob **11** and it deactivates the equalizer (Equalizer ☐). The treble setting is carried out turning knob **11** to the required position and ends pressing it (dwg. 3.G.).



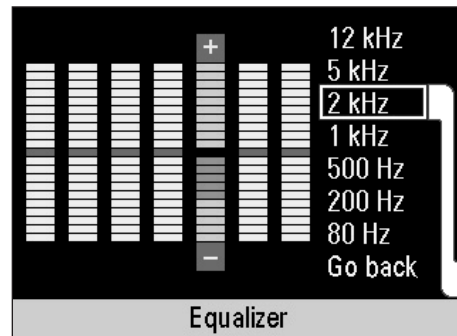
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"Bass"

The bass function displays a sliding regulator on the right of the page. Activation of the "Bass" selection (Bass ☒) is carried out through knob **11** and deactivates the equalizer (Equalizer ☐). The bass setting operation is carried out turning knob **11** to the required position and ends pressing it (dwg. 3.H.).

"Equalizer"

The equalizer function displays the equalizer function page. Activation of the equalizer function (Equalizer ☒) deactivates the treble and bass settings (Treble ☐ / Bass ☐) and makes it possible to select the single "sliding regulators" of the 7 band graphics pressing knob **11** and to set the different values turn-



3.M.

ing it further (dwg. 3.M.). The setting operation is ended pressing knob **11** again.

"Go back"

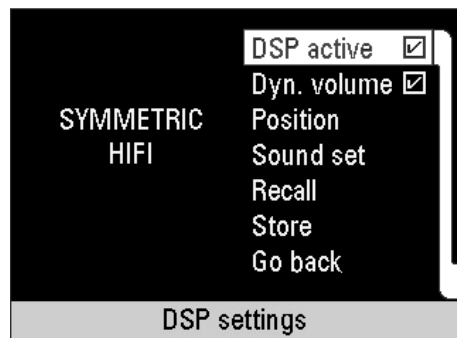
The "Go back" function takes you back to the previous function page (dwg. 3.L.).

"Balance"

The balance function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the right and left speakers. The distribution set is shown with a small square cursor. The "Balance" setting operation ends pressing knob **11** (dwg. 3.I.).

“Fader”

The fader function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the front and rear speakers of the passenger compartment. The distribution set is shown by a small square cursor. The “Fader” setting operation ends pressing knob **11** (dwg. 3.J.).



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“DSP”

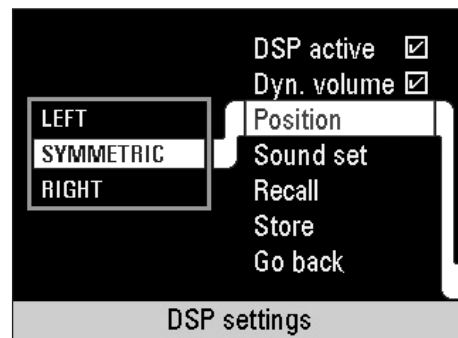
The “DSP” function displays the “DSP settings” function page with the selections “DSP active”, “Dyn. volume”, “Position”, “Sound set”, “Recall”, “Store” and “Go back” (dwg. 3.N.).

“DSP active”

The “DSP” function turns the DSP amplifier functions on/off (☒ / ☐).

“Dyn. volume”

The “Dyn. volume” function turns dynamic volume on/off (☒ / ☐). The dynamic volume function automatically increases the vol-



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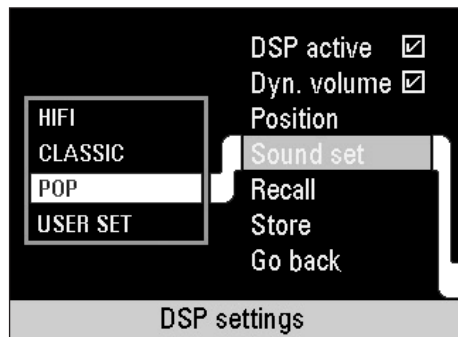
ume of loud and quiet passages differently as the speed increases.

“Position”

The “Position” function displays a list in which it is possible to select your position in the passenger compartment to obtain the best sound. This list offers a choice between the “LEFT”, “SYMMETRIC” or “RIGHT” fields (dwg. 3.O.).

“Sound set”

The “Sound set” function displays a list in which it is possible to select the types of sound in relation to the musical style. This



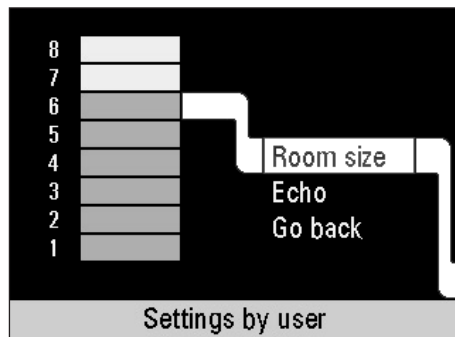
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list offers the choice between "HI-FI", "CLASSIC", "POP" and "USER SET" (dwg. 3.P.).

The "Sound set" (user parameter) function displays a new page of the function page for setting the individual sound parameter. This function has a "sliding regulator" for changing the "Room size" and "Echo" parameters (dwg. 3.Q.) respectively with 8 different levels. The operation is ended selecting "Go back" thereby accessing the "DSP settings" function page again.

"Recall"

The "Recall" function displays a list with three memories which contain the memorised settings.



3.Q.

"Store"

The "Store" function displays a list with three memory positions. The settings chosen are memorised in the selected memory position.

"Go back"

The "Go back" function displays the page of the audio setting functions (dwg. 3.L.).

"Go back"

The "Go back" function takes you back to the main page of the audio functions (radio, CD or CC) (dwg. 3.A.).

Warning During use of the phone or voice instructions not all the audio functions can be accessed: the message "Wait" will be displayed for about 3 seconds.