DESCRIPTION OF THE CONTROLS

fig. 103

Button		Radio mode			Tape mode		CD CHANGER MODE		PHONE-IN MODE	
		Press briefly	Press > 2 seconds	Press > 4 seconds	Press briefly	Press > 2 seconds	Press briefly	Press > 2 seconds	Press briefly	Press > 2 seconds
1	VOL	ON/OFF Turn leftwards: down Turn rightwards: up			ON/OFF Turn leftwards: down Turn rightwards: up		ON/OFF Turn leftwards: down Turn rightwards: up		ON/OFF Turn leftwards: down Turn rightwards: up	
2	▶	Open flap Eject tape			Open flap Eject tape		Open flap Eject tape		Open flap Eject tape	
3	SRC	TAPE, MCD, RADIO, PHONE (•)			MCD, RADIO, PHONE, TAPE (•)		RADIO, PHONE, TAPE, MCD (•)		RADIO, PHONE, TAPE, MCD (•)	
4	AUD	Bass, Treble, Balance, Fader (•)	AUDIO Mute		Bass, Treble, Balance, Fader (•)	AUDIO Mute	Bass, Treble, Balance, Fader (•)	AUDIO Mute	Bass, Treble, Balance, Fader (•)	AUDIO Mute

(•) Cyclic selection

P4AA2017

111

Button		Radio mode			Tape mode		CD CHANGER MODE		PHONE-IN MODE	
		Press briefly	Press > 2 seconds	Press > 4 seconds	Press briefly	Press > 2 seconds	Press briefly	Press > 2 seconds	Press briefly	Press > 2 seconds
⑤	BN ↩	FM2, FM3, MW, LW, FM1	FM: Autostore AM: Autostore		Manual tape reverse					
⑥	▲	AM: Automatic search FM: Learn scan FM search PTY: Select next programme type	AM: Manual search FM: Select IS scan or RDS search PTY: Automatic PTY programme type search	FM: Manual search	Fast forward With MSS on: skip track/seek next track		Select next track	Fast forward		
⑦	▼	AM: Automatic search FM: Learn scan FM search PTY:Select last programme type	AM: Manual search FM: Select IS scan or RDS search PTY: Automatic PTY programme type search	FM: Manual search	With MSS on: skip track/seek beginning of track		Select last track	Fast backward		
⑧	TP	TP: ON/OFF function	AF: OFF/ON function		TP: ON/OFF function		TP: ON/OFF function			
⑨	1	Select pre-set station buttons (1–6) PTY: Select PTY programme type	Storage (■) PTY: Storage (♦)	PTY ON			Repeat Track ON/OFF			
⑩	LD	Select Loudness ON/OFF			Select Loudness ON/OFF		Select Loudness ON/OFF		Selection Loudness ON/OFF	
⑪	2	Select pre-set station buttons (1–6) PTY: Select PTY programme type	Storage (■) PTY: Storage (♦)				Select REPEAT or REPEAT magazine			

(■) Store frequencies on buttons 1-6   (♦) Store PTY programme type

Button	Radio mode			Tape mode		CD CHANGER MODE		PHONE-IN MODE	
	Press briefly	Press > 2 seconds	Press > 4 seconds	Press briefly	Press > 2 seconds	Press briefly	Press > 2 seconds	Press briefly	Press > 2 seconds
⑫ DOLBY MONO	Select Stereo/Mono			Select Dolby B ON/OFF					
⑬ DX	Select DX/LOC								
⑭ 3	Select pre-set station buttons (1–6) PTY: Select PTY programme type	Storage (■) PTY: Storage (◆)				Select Random Function ON/OFF			
⑮ 4	Select pre-set station buttons (1–6) PTY: Select PTY programme type	Storage (■) PTY: Storage (◆)							
⑯ SCAN MSS	Select Learn scan ON/OFF (approximately 10 seconds)			Select MSS ON/OFF		Select Track scan ON/OFF (approximately 10 seconds)			
⑰ 5	Select pre-set station buttons (1–6) PTY: Select PTY programme type	Storage (■) PTY: Storage (◆)				last CD			
⑱ IS	Select LEARN ON								
⑲ EXP	Display frequencies	EXPERT Mode ON			EXPERT Mode ON	CD changer Status (□)	EXPERT Mode ON		EXPERT Mode ON
⑳ 6	Select pre-set station buttons (1–6) PTY: Select PTY programme type	Storage (■) PTY: Storage (◆)				next CD			

(■) Select pre-set station buttons (1-6)   (◆) PTY: Select PTY programme type   (□) CD Status functions on

GENERAL

Anti-theft protection

This sound system is equipped with an anti-theft protection system consisting of a four-digit secret code.

The protection system makes the sound system useless if it removed (stolen) from the dashboard.

CODE card

The model, the serial number and the respective secret code are shown on the sound system identity paper.

The serial number is identical to that printed on the device chassis.

The CODE card facilitates searches if the sound system is lost. Furthermore, the ownership paper speeds up recompensation procedures on behalf of insurance companies.

Keep the papers away from strangers.

Code

The sound system will be electronically protected if the device is disconnected from the battery (or if the constant 30 positive terminal is disconnected) when the code is on.

Only you can start the device again by entering its specific code.

Safety

IMPORTANT To keep the sound system where it is: activate the code.

Display

If the device has been disconnected from the power supply, the digits on the display will flash when the sound system is switched on.

The digits will flash to remind you to reset the clock (see chapter "Expert control level", paragraph ① "Setting the clock").

Extended function field (EXP button)

The EXPERT control level enables the use of a range of functions from a basic command while ensuring an overall view.

Operation with cellular phone (Phone)

The sound system is preset (with »PHONE IN« input) to be connected to a free-hands cellular phone kit.

The sound will be muted when the cellular phone is in use.

The message »PHONE« will appear on the display.

SWITCHING ON/OFF

There are two ways to turn the sound system on and off.

1. Press the VOL knob.

2. Switch on/off by means of the car's ignition switch. This function can be set by means of the EXPERT control level. The device can be switched on and off manually also in this case.

IMPORTANT If the ⑧ "IGN" EXPERT function is not on, the sound system will automatically switch off 20 minutes after stopping the engine.

ADJUSTING VOLUME AND SOUND

Volume

Adjust the required volume by means of the VOL knob.

The following will appear on the display:

»VOL 00« ... »VOL 31«.

Adjusting the sound

For each of the following settings BASS, TREBLE, FADER, BALANCE:

1. Select the function by pressing the AUD button briefly once or twice.

2. Set as required by means of the VOL knob or select basic settings: press the AUD button for approximately 3 seconds until either »00« or »- -« appears on the display.

3. After adjusting: press the AUD button several times until the message »VOL ...« appears.

IMPORTANT The system will quit the control level after approximately 5 seconds with the current settings.

Example: setting bass

Press the AUD button repeatedly until the following message appears on the display:

»BASS 00«.

Adjust bass settings by means of the VOL knob.

To set bass to the central position at the touch of key, press the AUD button for approximately 3 seconds until the message »00« appears on the display.

IMPORTANT The sound system memorises the various sound settings (BASS, TREBLE, FADER, BALANCE, LOUDNESS) for each source (TAPE, RADIO, CD, PHONE) and represents the settings whenever the sound source is selected.

LOUD (Loudness)

The LOUDNESS function improves low volume playback.

This function can be turned on and off manually.

Press the LD button briefly. The message »LOUD« (on) will appear on the display.

IMPORTANT The specific symbol will appear on the display when the corresponding function is on.

FAD (FADER) volume distribution

The fader changes the volume distribution between the front ("F") and rear ("R") speakers.

»FAD R -- -- F«.

BAL (balance) volume ratio

Balance is the volume ratio between the left-hand and right-hand speakers.

»BAL L -- -- R«.

Switching manually to MONO

Press the MONO button briefly. »∞« will disappear from the display.

IMPORTANT This function is recommended when the sound system is tuned to a very interfered station to reduce background noise.

SWITCHING BACK TO STEREO

Press the MONO button briefly. »∞« will appear on the display.

Muting the sound (Mute)

Press the AUD button for approximately 3 seconds until the message »MUTE ON« appears on the display.

To switch mute off: Press the AUD button briefly until the message »MUTE OFF« appears on the display.

RADIO (TUNER)

Band selection

FM band: press the BN button repeatedly until the required range »FM 1«, »FM 2« or »FM 3« appears on the display.

AM band: press the BN button repeatedly until »MW« (medium waves) or »LW« (long waves) appears on the display.

LAST STATION MEMORY

After the selection, you can listen to the last programme/station tuned to in the specific band (Last Station Memory). With the Last Station Memory function, the device memorises the settings made before it was turned off - selected station, tape, CD - and represents them the following time the device is turned on.

STEREO RECEPTION - FM

When the radio is tuned to a stereo station »∞« will appear on the display.

Tuning to traffic programmes (TP)

TP (Traffic Programme) = RDS station broadcasting traffic announcements.

SWITCHING TP FUNCTION ON AND OFF

Press the TP button briefly.

The message »TP« will appear on the display when traffic announcements can be received.

IMPORTANT If the station tuned to is not an RDS station broadcasting traffic announcements, a search for a suitable station will be started.

INTERRUPTING TRAFFIC ANNOUNCEMENTS

Press the TP button briefly. The traffic announcement function will however be kept on.

The sound system features the EON FUNCTION. The sound system will automatically tuned to another station in the same network as the one you are listening to, to provide traffic announcements (only when the TP function is on). It will automatically switch back to the original station when the announcement is over.

IMPORTANT Traffic announcements are played at minimum volume. The volume can be changed by means of the EXPERT menu.

If you wish to listen to traffic announcements only, switch the »traffic programme« function on by means of the TP button and set volume to »zero« by means of the VOL knob.

Tape or CD playback will be interrupted during traffic announcements.

Alternative frequencies (AF)

When tuned to an RDS station which is broadcast by several stations on different frequencies, the sound system will automatically switch to the best received frequency.

IMPORTANT In bad reception areas, the attempts to switch to alternative frequencies made lead to frequent interruptions of sound. In this case, the AF function can be switched off.

SWITCHING MSS ON

Press the MSS button during tape playback. The message »MSS ON« will appear on the display.

MSS will start according to the tape direction.

STARTING MSS

Press either ▼ or ▲ during tape playback.

Press ▲ to skip the track being played.

Press ▼ to repeat the track being played.

ENDING MSS BEFORE TIME

Press either ▼ or ▲.

SWITCHING MSS OFF

Press the MSS button during tape playback. The message »MSS OFF« will appear on the display.

Fast forward/reverse

Press either ▼ or ▲. Either « WIND or WIND » will appear on the display.

INTERRUPTING THE FUNCTION

Press either ▼ or▲ briefly.

Tape playback will start automatically.

SWITCHING OFF THE TAPE

Slide button ▶ to the right. The tape will be ejected.

– or –

Press the SRC button. The source will change from TAPE to CD (if the CD CHANGER is present) or RADIO.

Source selection is sequential: RADIO, TAPE, CD.

IMPORTANT If the FR function is on, the source is switched immediately but the tape player will end the current function.

General information

Tape playback is interrupted by a traffic announcement (TP function on).

IMPORTANT Press the TP button briefly to interrupt the announcement in progress without inhibiting the reception of other announcements.

SWITCHING THE AF FUNCTION OFF

IMPORTANT This function can only be turned off when tuned to stations with alternative frequencies.

Press the TP button for approximately 3 seconds until the message »AF –« appears on the display. The message »AF OFF« will appear when the button is released.

The message »AF« will not appear on the display.

SWITCHING THE AF FUNCTION BACK ON

Press the TP button for approximately 3 seconds until the message »AF ON« appears on the display and release the button.

The message »AF« will appear on the display.

Tuning to RDS stations (IS function)

Up to 30 programmes can be stored in the IS memory (a memory area not corresponding to store buttons) with a touch of the IS button.

The stored programmes can be recalled in sequence, see "General information".

Use the IS memory function to re-programme station selection buttons or when you are in a new reception area but you do not want to delete the previously stored stations.

Starting IS automatic station search

Select either »FM 1«, »FM 2« or »FM 3« by means of the BN button.

Press the BN button briefly for approximately 2 seconds: the message »IS ...« will appear on the display while the tuner is searching the FM band.

IMPORTANT Always wait for the automatic Intelligent Search (IS) to end.

If no station can be received, the automatic intelligent search can remain on, e.g. in an underground garage or if the aerial is faulty. In this case, you can stop the automatic search by pressing on the station selection buttons from 1 to **6**.

Automatic intelligent search IS stores up to 30 stations with optimal reception.

During IS automatic intelligent search, RDS programmes will be stored first and ordered by programme code. Then FM stations will be stored.

Recalling IS memory content

Select IS operating mode by pressing either ▼ or ▲ for approximately 3 seconds until the message »IS --« appears on the display.

The message »IS ON« will appear when the button is released.

In this case, the search will follow the station code order.

Press either ▼ or ▲ briefly to recall the stored stations in the required order. During selection, the message »IS-SCAN« is appear on the display.

Switching the IS operative mode off.
Press either ▼ or ▲ for approximately 3 seconds until the message »IS --« appears on the display.

The message »IS OFF« will then appear on the display.

In this condition, the search will be made according to the order of programme frequency.

Automatic station search is described in detail in the specific paragraph.

The sound system stores the last search mode in memory (»IS ON« or »IS OFF«).

Stored station buttons 1, 2, 3, 4, 5, 6

Select the band FM1, FM2, FM3, MW or LW by means of the BN button.

TUNING TO AN RDS STATION/PROGRAMME:

If the RDS station/programme tuned to in the selected band (e.g. »FM 1«) is stored at one of the station selection buttons numbered from 1 to 6, the respective digit will appear on the display, e.g. »3« for stored station 3.

STORING RDS STATIONS/PROGRAMMES

Press a station selection button numbered from 1 to 6 for longer than 2 seconds until you hear the station again.

AF tuning will be stored with the station.

Recalling stored RDS stations/programmes

Select the band FM1, FM2, FM3, MW or LW by means of the BN button.

Press a station selection button numbered from 1 to 6 briefly.

The stored stations will be kept in memory even when the sound system power is disconnected.

Tuning to RDS stations/programmes with automatic station search

1. Select the band FM1, FM2, FM3, MW or LW by means of the BN button.

For automatic search in FM 1, FM 2 or FM 3 bands, switch the IS operative mode off. In order to do this, press either button ▼ or ▲ for approximately 3 seconds until the message »IS --« appears on the display. The message »IS OFF« will then appear on the display.

Automatic search in the FM bands works according to two levels of sensitivity. During the first scan in the reception band, the system seeks only the stations presenting high intensity fields (local stations). During the second scan, the system seeks stations with low intensity fields (distant reception). The message »DX« will appear on the display during the search.

2. Press either ▼ or ▲ briefly to start automatic search in the required direction. The respective frequency will appear on the display (e.g. 99.40).

When a station with identification code is found, the code is shown on the display. If not, the frequency is shown.

If the RDS station/programme tuned to in the selected band (e.g. »FM 1«) is stored at one of the station selection buttons numbered from 1 to 6, the respective digit will appear on the display, e.g. »3« for stored station 3.

3. To store the tuned station at a station selection button, follow the procedure described in the previous paragraph »Station selection buttons«.

Manual frequency tuning

1. Select the band FM1, FM2, FM3, MW or LW by means of the BN button.

2. Press either ▼ or ▲ for approximately 6 seconds until the message »MAN« appears on the display with the frequency (e.g. »MAN 100.60«).

Hold either ▼ or ▲ pressed to fast forward.

3. Tune in the required direction by pressing either ▼ or ▲. Press ▲ to increase the frequency by 50 kHz units in FM and 1 kHz units in AM. Press ▼ to reduce frequency in the same fashion.

If the RDS station/programme tuned to in the selected band (e.g. »FM 1«) is stored at one of the station selection buttons numbered from 1 to 6, the respective digit will appear on the display, e.g. »3« for stored station 3.

4. To store the tuned station at a stored station button, follow the procedure described in the previous paragraph »Station selection buttons«.

5. Ending manual frequency tuning: press a station selection button numbered from 1 to 6 briefly.

IMPORTANT If no button is pressed for more than 60 seconds, the manual frequency tuning function is switched off automatically.

Automatic station storing: Autostore

To automatically store the strongest stations in local reception mode in the selected band at the station selection buttons numbered from 1 to 6.

Select the band: FM 1, FM 2, FM 3, MW or LW.

Press the BN button for approximately 6 seconds until the message »AS« and the frequency appear on the display.

The best received station at the end of the search will be tuned to.

Programme types (PTY)

Many radio stations in the FM band (FM1, FM 2, FM3) offer a »Programme type« (PTY) service. For example, when a news bulletin is being broadcast the message »NEWS« will appear on the display.

The PTY function can act a search filter to tune only to stations broadcasting programmes with the pre-set PTY code (e.g. »POP«).

PROGRAMME TYPES

The programme types offered by a radio station can change:

NEWS	News bulletins and current affairs
AFFAIRS	Politics and events
INFO	Special information programmes
SPORT	Sports programmes
EDUCATE	Educational and training programmes
DRAMA	Drama and literature
CULTURE	Culture, church and religion
SCIENCE	Science
VARIED	Variety
POP	Pop music (hits)
ROCK M	Rock music
EASY M	Easy listening
LIGHT M	Light classical music
CLASSICS	Classical music
OTHER M	Musical programmes not included in the categories listed (e.g. folklore)
WEATHER	Weather forecasts
FINANCE	Financial news bulletins
CHILDREN	Programmes for children
SOCIAL A	Social information
RELIGION	Religious and philosophical programmes
PHONE IN	Listeners' phone-in programmes (different from the "PHONE IN" function active only when connected to a free-hands cellular phone kit)
TRAVEL	Tourism
LEISURE	Leisure, hobbies and spare time activities
JAZZ	Jazz music
COUNTRY	Country music
NATIONAL	National programmes

OLDIES	Golden Oldies
FOLK M	Folk music
DOCU	Special reports
NO PTY	No programme type identification code

Automatic PTY search

There are two possible ways to select a programme type for automatic searches.

1. Six programme types are assigned to the 6 PTY buttons (station selection buttons). The pre-set assignment can be changed at will.

2. You can choose a programme type from the stored list and start the automatic search.

The procedure is described in the following paragraphs.

PTY function

1. STARTING THE PTY FUNCTION

Press the TP button for approximately 6 seconds until the message »PTY ON« appears on the display. Then the last selected programme type will appear (e.g. »POP«).

2. SETTING PROGRAMME TYPE

Press a button from 1 to 6 briefly. The automatic PTY search will start to the following station offering the selected programme type. The programme type will be shown briefly (e.g. »POP«) followed by the station code and the message »PTY«.

– or –

Repeatedly press either ▼ or ▲ until the required programme type appears on the display.

Press either ▼ or ▲ for approximately 2 seconds to start the PTY automatic search. The PTY automatic search will automatically stop at the following station offering the selected programme type. The programme type (e.g. »POP«) and the message »PTY« will appear on the display.

IMPORTANT If no station offers the selected programme type, the sound system will tune to the last tuned station and the PTY function will be abandoned.

3. SWITCHING THE PTY FUNCTION OFF

This will occur automatically after approximately 10 seconds.

PTY programme store buttons

STATION SELECTION BUTTONS

The standard setting is: 1 NEWS, 2 SPORT, 3 POP, 4 ROCK M, 5 CLASSICS and 6 EDUCATE.

Each station selection button can be set to a programme type as required:

1. Switch the PTY function on: press the TP button for approximately 6 seconds until the message »PTY ON« appears on the display. Select the required programme type (e.g. »NEWS«).

2. Repeatedly press either ▼ or ▲ until the required programme type appears on the display.

3. Press one of the station selection buttons for more than 2 seconds.

RDS station frequency

The frequency of the RDS station currently tuned to can be displayed.

Press the EXP button briefly.

The transmission frequency will be displayed for approximately 10 seconds in the place of the station name.

Scanning stored stations (SCAN)

The SCAN function automatically scans the stations stored with the IS function. Each station will be played for 10 seconds.

TAPE PLAYER

Switching the tape player on

Insert a tape cassette in the respective deck. Either »TAPE A« or »TAPE B« will appear on the display.

If there is a tape in the deck, press the SRC button repeatedly until the message »TAPE« appears on the display.

SRC = Source; the sources are: RADIO, TAPE, CD.

Changing tape side

Press the BN button.
Tape side will change automatically when the end of the tape is reached.

The meaning of the messages on the display is:

»TAPE A« = upper tape side

»TAPE B« = lower tape side.

MSS function

MSS = Music Search System

This function skips or repeats a track.

The MSS function works with over 3 second pauses between tracks (without announcements).

Musical tracks with very low sections (e.g. classical music) are not suited for this function as the system mistakes the sections for pauses.