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General information

Notes on operating instructions

The following reading aids are used to simplify these operating instructions:

👉 asks you to perform an action

✓ shows the unit's reaction

📎 provides extra info

☐ identifies a list

WARNING

A **WARNING** indicates a situation in which harm, serious bodily injury or death could result if the warning is ignored.

CAUTION

A **CAUTION** indicates a situation in which damage to your vehicle could result if the caution is ignored.

Class 1 laser product

**CLASS 1
LASER PRODUCT**

CAUTION

- Any inappropriate use of the device may expose the user to invisible laser rays which exceed the limits for Class 1 laser products.

WARNING

Don't use a cellular phone when you are driving. You must stop at a safe place to use a cellular phone.

WARNING

When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from the outside.

CAUTION

- Do not place beverages close to the audio system. The audio system mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.

Safety instructions

WARNING

Make all inputs via the remote control only when the vehicle is stationary, or have the passenger make them. Otherwise, you may endanger the occupants and other road users.

WARNING

Avoid inserting any foreign objects into the slot of this player. Failure to observe this may cause malfunction due to the precise mechanism of this unit.

WARNING

Keep the volume level low enough to be aware of road and traffic conditions.

WARNING

Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Notes on USB stick (thumb drive)

WARNING

- We strongly recommend only using USB sticks (thumb drives) of well-known manufacturers.
- On no account must other USB devices such as hard discs or other digital equipment or multi plug USB hub be connected to the USB hub. Connecting other devices can cause malfunction or even destroy the audio equipment.
- Avoid using the USB memory when it might hinder your safety driving.
- It is possible that noise is heard during playback when using the AUX-IN together with the power outlet due to system-related not a malfunction. If this happens, use the power source of the AUX device.
- In rare cases it is possible that an USB stick (thumb drive) is not recognized by the unit or may cause a malfunction. Please only use USB sticks that comply with the USB thumb drive specifications.

RDS (Radio Data System)

Many VHF stations transmit RDS information.

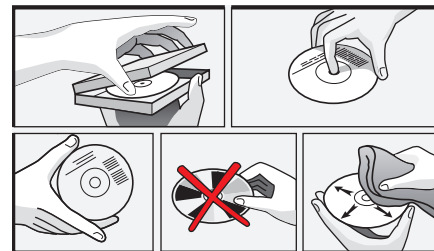
The radio evaluates the RDS telegram and offers the following advantages:

- ☐ PS (Program Service name): Display of station name.
- ☐ Radio text: Display of additional information concerning the radio station.
- ☐ PTY (Program TYpe): Station selection by program type.
- ☐ AF (Alternative Frequency): Automatic retuning to best alternative frequency.
- ☐ TA (Traffic Announcement): Traffic announcements.
- ☐ EON (Enhanced Other Networks): Automatic fade-in of traffic announcements on other stations.

Notes on CD formats

The following CD formats are supported by the CD player:

- ☐ CD Audio (CD-DA in accordance with the Red Book Standard);
- ☐ CD-R/RW (in accordance with Orange Book, part 2/3)
- ☐ Multisession CD (in accordance with multisession CD specification 1.0)



Handling CDs

Avoid leaving fingerprints on the CD when removing it.

Always store map and audio CDs in their protective covers.

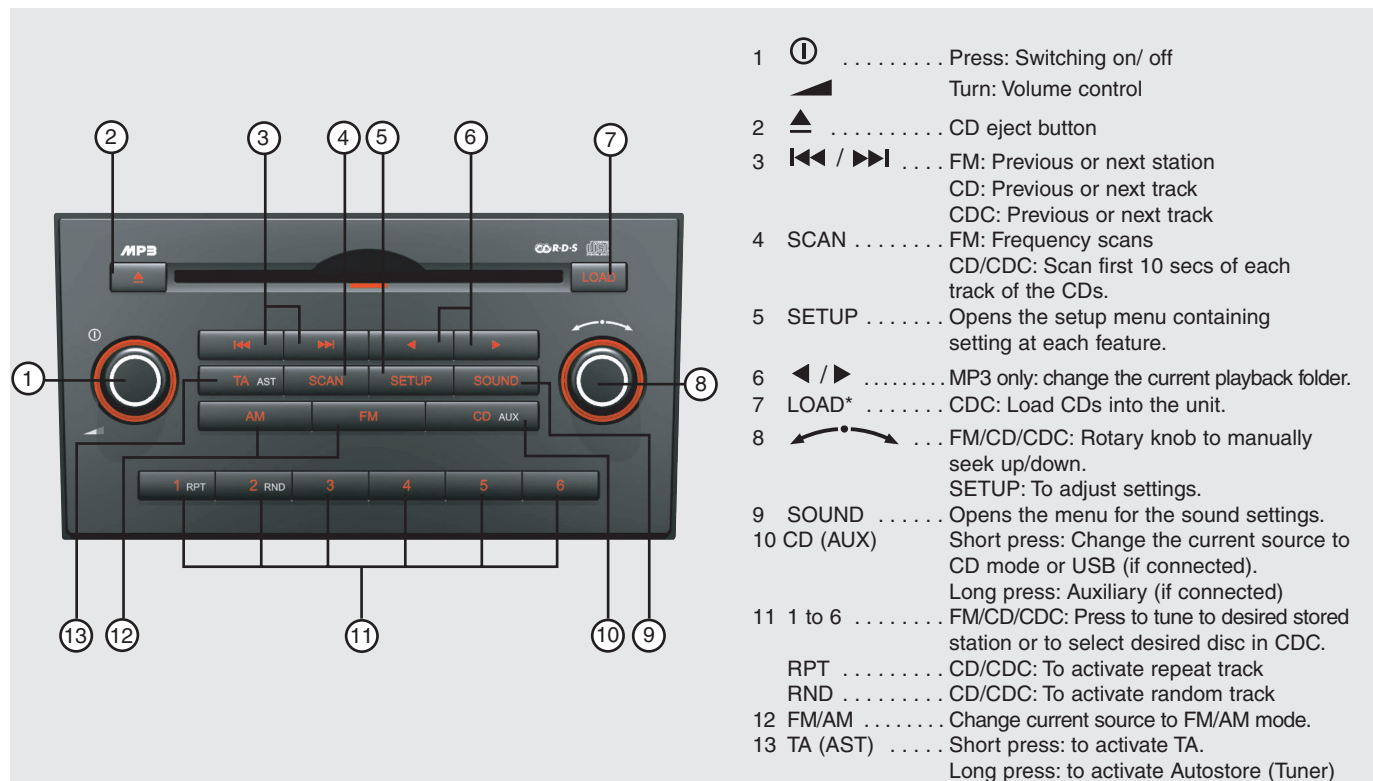
Always ensure that CDs are clean and dry before inserting.

Protect CDs from heat and direct sunlight.

Cleaning the unit

Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth.

Control elements



* Depend on version

Inserting and removing CDs

Inserting a CD

- ➡ Insert the CD into the drive (printed side up).
- ➡ For audio/ MP3 CDs, playback starts automatically.

Removing a CD

- ➡ Press the ▲ button and carefully remove the CD.

Switching on/ off

- ➡ Press the ① button to switch the unit on or off.

Switching on and off with the ignition key

If the unit is switched on, it can be switched off and on automatically by removing or inserting and turning the ignition key.

Automatic switch off

If the unit was turned on using the ① button with the ignition off, it automatically switches itself off after a set time.

Volume



WARNING

When setting the volume, please make sure that traffic noises (horns, sirens, emergency vehicles, etc.) are still audible.

- ➡ Turn the ▼ button to set the volume.

Menu operation

The central element for operating the menus is the  knob.

- ➡ Turn the  knob to select a menu option.

Sound settings

- 🔊 Press the SOUND button.
- 🔊 Press SOUND button repeatedly to access the following submenus.



- 🔊 Turn the  knob to select desired settings.
- 🔊 To exit, press SETUP, CD, FM or AM buttons.

The following options are available:

Bass

- 🔊 Set the required bass level setting between -10 to +10.

Treble

- 🔊 Set the required treble level setting between -10 to +10.

Balance

- 🔊 Set the required volume balance between L10 to R10.

Fader

- 🔊 Set the required volume balance between R10 to F10.
- 🔊 Fader level is only transmitted via the front loudspeakers, the rear signals are muted.

Volume settings

- 🔊 Adjusts the volume level between its minimum and maximum. Settings: 0 ... 35

Equalizer

Set the frequency response of the selected sound sources with the 5-band equalizer (EQ OFF, JAZZ, POP, CLASSICAL, ROCK)

- 🔊 Press and hold SOUND button.
- 🔊 Turn the  knob to select desired setting.

Listening to radio

If the unit is not yet in radio mode:

- 🔊 Press FM or AM.
- 🔊 The unit switches to radio mode.

Select waveband

In radio mode:

- 🔊 Press FM or AM to select the desired waveband.

Available wavebands:

- ❑ FM 123: Memory for up to 18 manually programmable FM stations.
- ❑ FM AST: Memory for up to 6 automatically stored FM stations.

Selection of MW

- ❑ MW 1: Memory for up to 6 manually programmable MW stations.
- ❑ MW AST: Memory for up to 6 automatically stored MW stations.
- ❑ LW: Memory for up to 6 manually programmable LW stations.

Autostore

Automatic storage of strong stations in the current waveband (FM AST, AM AST and MW AST).

- 🔊 Press and hold AST button to activate/deactivate this function.
- 🔊 The maximum possible number of stations for each band is 6. Execute "Autostore" to update the list

of the stations with strong reception (e.g. when driving through different receiving areas).

Automatic search

- 🔊 Press the ◀◀ or ▶▶ button for the previous/next station receivable station in the currently selected waveband.
- ✓ It will always starts to search for strong signal station at LOCAL search level. If no station can be found at LOCAL level, it will search at DISTANCE level.
- 🔊 To exit, press ◀◀ or ▶▶ button respectively.

Manual seek

Manual reception frequency setting.

- 🔊 Rotate the  knob clockwise or anti-clockwise to increment or decrement the frequency.

Frequency Scan

Radio will tune to each available station from the current waveband for 10 seconds before scanning for the next higher frequency station.

- 🔊 Press SCAN button to activate/ deactivate the scan function.

Station memory

In the FM 123 waveband there are 18 station memories, in the "123" wavebands for MW and LW there are 6 station memories each (also see "Select waveband").

Storing preset stations

- 🔊 Tune to the desired station.
- 🔊 Press and hold one of the preset (1 - 6) buttons until you hear a confirmation tone.
- ✓ The station selected is stored on the preset button.
- 🔊 You can also select a station in a different waveband (e.g. FM AST or FM 123) and then store this on one of the preset buttons.

Recalling preset stations

Tune to the desired station.

- 🔊 Select the button (1 - 6) for memorized station.

Radio Data System (RDS) on FM

Many FM stations broadcast RDS information.

The RDS provide you with information of the following:

Traffic programme (TP)

Switch this function on if you want to hear traffic announcements. You will also hear traffic announcements while a CD/MP3 is playing.

- ✎ Press the TA button to enable/disable function.
- ✎ Select SCAN to activate 10 secs scan for TP stations.
- ✎ Select ◀◀ or ▶▶ to search for TP stations.
- ✎ Set the required volume for the traffic announcements in the SETUP menu.
- ✓ TA symbol will be displayed when Traffic info has been activated.

If no TP stations found

If no TP stations are found the unit will remain at current station with display 'No TA/TP' for 3 seconds. If TP signal of tuned station is lost for 30 seconds, it will perform an automatic TP seek for the next TP station. If no TP station is found, the unit will remain at current station with display 'TP LOST' for 3 seconds.

- ✓ TP seek will be performed periodically every 30 secs until TP station is found.

Traffic announcements from other stations – EON

With the RDS function EON (Enhanced Other Networks) you will hear traffic announcements even if the set station does not provide this service but is operating on a network with other stations.

- ✎ If you have activated Traffic info, stations with EON will be treated like traffic stations, i.e. the search will also stop at these stations.
- ✎ When a traffic announcement is made, the unit switches to a traffic information station linked to EON. After the announcement, the unit returns to the previous programme.

Alarm Messages

(PTY ALARM / EON network)

The unit automatically receives emergency messages made by the broadcaster.

- ✓ Display shows 'ALARM'.
- ✎ Press TA button to stop current announcement message and it will not disable alarm functions.

Alternative Frequency

This function enable or disable the automatic tuning to an alternative frequency with the best reception condition.

- ✓ AF symbol will be displayed when AF feature has been activated at the SETUP menu.

PTY search (FM only)

Searching for stations by programme type.

Select the required programme type from the list.

- ✓ The search begins and finds the nearest station that transmits this programme type.

PI seek

This function performs an automatic seek for the best-received frequency of a RDS station with a specific PI-code.

- ✓ System will trigger to search for a better quality AF at recall/preset station.
- ✓ The unit will display 'PI SEARCH'.

Listening to CD

Notes on CD

- ❑ This CD player is suitable for 12cm disc and 8cm disc with adaptor only and can read both audio and MP3 format CD.
- ❑ Please do not use irregular shaped CD.
- ❑ CD-Rs or CD-RWs can generally be played. Due to varying quality of CDs, surface condition of the disc, as well as the performance and condition of the CD writer, certain CD-R/CD-RW CD may not operate normally on this unit.

CD playback

Starting/Stopping a disc

- 🔊 Press CD button to begin.
 - ✓ Playback will stop when another source becomes active.
- For CDP: the disc will play back from the beginning of the first file.
- For CDC: the unit will play the next available disc if there is more than 1 discs.

Ejecting a disc

- 🔊 Press the ▲ button.
- 🔊 Remove the disc from the disc slot.

Previous/Next Track

- 🔊 Press the ◀◀ or ▶▶ buttons to select previous or next song track OR
- 🔊 Rotary knob in clockwise direction to seek up and anticlockwise direction to seek down.

Fast Forward/Reverse

- 🔊 Press and hold ◀◀ or ▶▶ buttons to for fast forward and reverse.

Random Track

- 🔊 Press RND button to activate/deactivate track random.

Repeat Track

- 🔊 Press RPT button to activate/deactivate track repeat.

Scan Track

- 🔊 Press SCAN button to activate/deactivate track scan.
- ✓ CD plays the first 10 seconds of the song.

Listening to MP3

Notes on MP3 files

The following MP3 files are supported by the CD player:

- ❑ Files conform with MPEG1/2 or 2.5-Layer 3.
- ❑ The format of the CD must be ISO 9660 Level 1 or Level 2 or Joliet with sector format in Mode 1 or Mode 2 Form 1. Other formats cannot be played reliably.
- ❑ Up to maximum number of folders and number of files is 345, maximum number of folders is 254 (total number of characters displayed are 24).
- ❑ Bit rate: Maximum of 320 kbit/s, constant or variable.
- ❑ Sampling frequency: Maximum of 48 kHz.
- ❑ Text display: ID3 tag V1 and ID3 tag V2. MP3 tracks can contain addition information such as artist, track and album names (ID3 tags with maximum not more than 12 characters). Characters other than uppercase/lowercase letters ("Aa to Zz") and underscore ("_") may not be displayed.
- ❑ Only files with .mp3 extension are recognized as MP3 files.
- ❑ The unit may not play the first track in the order that you wrote them to the disc.
- ❑ The unit plays only the first session if the disc contains both CD audio

tracks and MP3 files.

- ❑ When playing a disc of 8k bps or variable bit rate (VBR), the elapsed playing time in the display window may not be correct.
- ❑ Make sure that a MP3 CD-R/CD-RW is burned that is formatted as a data disc and NOT as an audio disc.
- ❑ MP3 files are not compatible with packet write data transfer.
- ❑ The MP3 symbol will be shown in the display if an MP3 is being played.

Starting/Stopping playback

- 🔊 Press CD button to start playback.
- ✓ Playback will stop when another source becomes active.

Previous/Next Folder

- 🔊 Press the ◀ or ▶ buttons to select previous or next folder.

Previous/Next Track

- 🔊 Press the ◀◀ or ▶▶ buttons to select previous or next song track OR
- 🔊 Rotary  in clockwise direction to go to next track and anticlockwise direction to previous track.

Fast Forward/Reverse

- 🔊 Press and hold ◀◀ or ▶▶ buttons for fast forward and reverse.

Random

- 🔊 CDC mode*: Press and hold RND button to activate or deactivate random in the tracks.
- 🔊 CDP mode: Press RND button to activate or deactivate random in the tracks.

Repeat

- 🔊 CDC mode*: Press and hold RPT button to activate or deactivate repeat track.
- 🔊 CDP mode: Press RPT button to activate or deactivate repeat tracks.

Scan

- 🔊 Press the SCAN button to activate or deactivate scan track.
- ✓ CD plays the first 10 seconds of the song.
- ✓ When a folder ends: scanning continues with the first file of the next folder.
- ✓ When a CD ends: scanning continues with the first file of the first folder.

Setting Text

To retrieves text information from the MP3 files for display.

- 🔊 Press and hold SETUP button in MP3 mode to set information in available sequence
Filename/Playtime/Title/Artist/Album/Directory Name.

* CD Changer version only

CDC mode *

(CD Changer version only)

- 🔊 To load single disc: Press LOAD button.
- 🔊 To load all discs: Press and hold LOAD button.
- 🔊 Insert the disc with printed side facing up. CDC playback begins.

Ejecting a disc

- 🔊 To eject single disc: Press the ▲ button.
- 🔊 To eject all disc: Press and hold ▲ button.
- 🔊 Remove the disc from the disc slot.

Starting/Stopping playback

- 🔊 Press CD button to start playback.
- ✓ Playback start from the current disc position in the magazine.

Direct disc access

- 🔊 Press button 1-6 to play the desired CD.
- ✓ The CDs in the CD changer are displayed as "CDC 1, 2, 3, 4, 5, 6" etc.

Previous/Next Track

- 🔊 Press the ⏮ or ⏭ buttons to select previous or next song track OR
- 🔊 Rotary  knob in clockwise direction to go to next track and anti-clockwise direction to previous track.

Fast Forward/Reverse

- 🔊 Press and hold ⏮ or ⏭ buttons to for fast forward and reverse.

Random Track

- 🔊 Press and hold RND button to activate or deactivate random in the tracks.

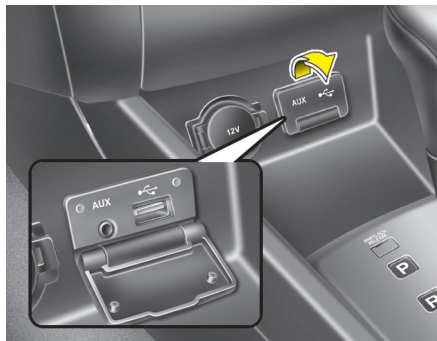
Repeat Track

- 🔊 Press and hold RPT button to activate or deactivate repeat track.

Scan Track

- 🔊 Press the SCAN button to activate or deactivate scan track.
- ✓ CD plays the first 10 seconds of the song.
- ✓ When a last track of CD ends: scanning continues with the first track of current disc.

USB Hub & Auxiliary (If connected)



- 👉 Lift to open the lid.
- 👉 Please keep lid close when not in use.

Notes of USB Hub

Due to constant changes of USB products in the market and their respective Software, it can be possible that some of the USB devices are not compatible with this head unit.

It supports the formats of files:

- ☐ MP3
- ☐ WMA
- ☐ OGG

- 👉 Press CD button to start playback.

Previous/Next Folder

- 👉 Press the ◀ or ▶ buttons to select previous or next folder.

Previous/Next File

- 👉 Press the ◀◀ or ▶▶ buttons to select previous or next song file OR
- 👉 Rotary knob in clockwise direction to go to next track and anti-clockwise direction to previous file.

Fast Forward/Reverse

- 👉 Press and hold ◀◀ or ▶▶ buttons to for fast forward and reverse.

Random File

- 👉 CDC*: Press and hold RND button to activate or deactivate random in the file.
- 👉 CDP: Press RND button to activate or deactivate random in the file.

Repeat File

- 👉 CDC*: Press and hold RPT button to activate or deactivate repeat file.
- 👉 CDP: Press RPT button to activate or deactivate repeat file.

Scan File

- 👉 Press the SCAN button to activate or deactivate scan file.
- ✓ CD plays the first 10 seconds of the song.
- ✓ When a last track of CD ends: scanning continues with the first track of current disc.

Setting Text

To retrieves text information from the MP3 files for display.

- 👉 Press and hold SETUP button in MP3 mode to set information in available sequence
Filename/Playtime/Title/Artist/Album/Directory Name.

Auxiliary In

You can input Aux in to this unit.

- 👉 Press and hold CD button when an auxiliary is connected.
- ✓ Playback will stop when another source becomes active.

Dual steering wheel remote control*



CH ▲ / CH ▼ Radio mode: Select preset up/down from the preset list of the current waveband
CDC : Select next or previous disc

Seek ◀◀ / ▶▶ . . . Radio mode: Select previous/next station
CD/CDC/USB: Select previous/next track

Mute Muting the system

◻ + / - Volume control up / down

Mode Switchover between TUNER (FM)/CD/USB/AUX mode

Single steering wheel remote control*



Seek ◀◀ / ▶▶ . . . Radio mode: Select previous/next station
CD/CDC/USB: Select previous/next track

◻ + / - Volume control up / down

CH ▲ Radio mode: Select Preset up
CDC: Next disc

Mode Switchover between TUNER (FM)/CD/USB/AUX mode

Note: To enable the following functions to be controlled by the steering wheel keys, please ensure there is CD in the unit and USB/AUX is connected.

* Depend on version

SETUP menu

In the setup menu you can change to your preferred settings.

🔊 Press the **SETUP** button to enter setup menu.

🔊 Press **SETUP** button repeatedly to access the following submenus.

- START VOL
- TA VOL
- SDVC
- PTY
- REGIONAL
- AF
- MP3
- SECURITY CODE

🔊 Use the  knob to select desired settings.

🔊 To exit, press SETUP, CD, FM or AM buttons.

The following options are available:

Max.start vol.

Setting the maximum volume when the unit is switched on.

Settings: 5 ... 25

- ✓ When you switch on the unit, the volume will always be set to this level if the volume was louder than this level when you switched off.

TA vol.

Setting the volume for traffic announcement.

Settings: 5 ... 25

SDVC Adjustment for speed-dependent volume control.

Settings:

- ✓ 1 ... 5: Small (1) to large (5) increase in volume on acceleration.
- ✓ 0: OFF, no speed-dependent volume control.

PTY search

Searching for stations by programme type.

- ✓ None: No PTY
- ✓ 1 ... 29: PTY programme type
- ✓ 30 ... 31: Cannot be selected. For emergency test and alarm only.

🔊 Press the  knob once to enter the selected PTY.

- ✓ The search begins and finds the nearest station that transmits this programme type.

Regional

Setting the RDS regional function.

Settings:

- ✓ ON: The radio only tunes to alternative frequencies of the selected station which transmit the same regional programme.
- ✓ OFF: The radio tunes to all the alternative frequencies of the selected station even if different regional programmes are transmitted.

AF retuning

Setting the RDS AF function.

Settings:

- ✓ ON: Automatic retuning to alternative frequencies for the same station.
- ✓ OFF: No automatic retuning to alternative frequencies. The radio keeps to the receiving frequency set.

MP3 Display

Activating/ deactivating text display with MP3 playback. The text appears in the middle line of the screen.

Settings:

- ☐ FILENAME: The filename the user defined
- ☐ PLAYTIME: Song duration
- ☐ TITLE: Song title
- ☐ ARTIST: Artist of the song
- ☐ ALBUM: Song album
- ☐ DIRECTORY NAME: Song directory

Security code feature

Battery reconnection

In any event when the battery of the car is being disconnected and reconnected again, you will be prompted to enter your password

☞ Enter '0000' (Default code)

User is allowed to enter the correct password twice. If the password is not entered correctly after the second attempt, the unit will be locked. The unit has to be left on for 1 hour. After that, user can re-enter the password again.

To change the security code:

- ☞ Press the SETUP button to enter setup menu.
- ☞ Press the SETUP button repeatedly to access the submenus ("SECURITY CODE")
- ☞ Press the  knob to select SECURITY CODE.
- ☞ Enter saved password.
(Refer 'To enter PASSWORD')
- ☞ Enter NEW password
(Refer 'To enter PASSWORD')
- ☞ In the event when no new password has been set, the default password will remain to be '0000'

To enter PASSWORD:

- ☞ Turn the  knob to change the digits of security code.
- ☞ Press  knob once to go to next digit.
- ☞ Repeat this until you have finished entering 4 digits.
- ☞ To confirm new password, press and hold  knob button.
- ✓ Your new password has been saved.

In the event if you have forgotten the password and the unit is 'locked', please approach your car authorised dealers for assistance.

In rare instances, your radio may not function the way you expect it to. Before calling the service department, please read the operating instructions thoroughly and go through the following check list; it may be possible to quickly remedy an apparent malfunction.

> **Symptoms**

• **Possible cause / remedy**

General

- > Audio/ MP3 rejected by the unit.
 - The CD may be dirty.
 - Clean the CD with a damp cloth
 - The CD does not comply with the CD player's specifications.
 - See "Notes on audio and MP3 CDs"
- > The operating panel generates some heat.
 - No error. The unit feels warm.
- > The volume decreases automatically. The volume can no longer be increased.
 - An integrated safety circuit prevents the temperature in the unit from exceeding a certain value.
 - Allow the unit to cool down (set low volume).

Radio

- > Poor or no radio reception.
 - Check if the antenna is completely and correctly connected.
 - Check whether the supply voltage's negative pole (brown cable) is correctly connected to earth (vehicle chassis).
- > FM ABC and FM AST station list has only few or no stations.
 - Antenna (disc antenna) obscured, antenna rod bent or antenna defective.
 - Please arrange for an authorised dealer to check the antenna.
- > The frequency instead of the station name is displayed.
 - The unit is tuned to a station that does not transmit RDS signals or the transmitter is too weak.
- > The required station cannot be tuned to using automatic search.
 - The desired station is too weak.
 - Set desired station manually (manu. tuning).
 - Check whether the antenna is completely and correctly connected.
- > No traffic announcements are switched through (during CDC playback).
 - Activate the traffic announcement by pressing TA button

CDC / MP3

- > Distorted sound/ skips during CD play.
 - Player cannot read CD. CD is damaged or soiled.
- > CD player does not work.
 - In cold weather conditions, condensation may occur on the laser.
 - With the set on, wait for 5 minutes until the condensation evaporates.
- > No sound during CD playback.
 - Some CDs contain multimedia data which is not recognised by the unit.
 - Advance the tracks until music is heard.
 - See "Notes on audio and MP3 CDs".
- > Problems with new copy-protected audio CDs.
 - Some copy protection procedures are incompatible with accepted standards for audio CDs. This is not a fault on the unit
 - See "Notes on audio and MP3 CDs".