



INSTRUCTION MANUAL

K100R

MP3/WMA CD PLAYER
WITH AM/FM RADIO

Before operating the unit, please read this manual thoroughly and retain it for future reference

| | |
|--|---------|
| 1. OPERATING INSTRUCTIONS | Page 03 |
| 2. GENERAL | Page 04 |
| 3. ANTI-THEFT SECURITY CODE | Page 09 |
| 4. RADIO | Page 11 |
| 5. CD PLAYER | Page 12 |
| 6. HANDLING COMPACT DISCS | Page 18 |
| 7. LCD DISPLAY FOR CD PLAYER ERROR | Page 19 |
| 8. PRODUCT AND WARRANTY SERVICE | Page 20 |
| 9. MP3/WMA INFORMATION AND NOTICE | Page 21 |
| 10. WARNING AND PRECAUTIONS | Page 22 |
| 11. SPECIFICATIONS | Page 23 |

OPERATING INSTRUCTIONS



- | | |
|-----------------------------------|---|
| 1. POWER (ON / OFF / Volume) | 10. PRESET 1 MEMORY (► / - Pause Play) |
| 2. AUDIO SETTING SELECT / TUNING | 11. PRESET 2 MEMORY (SCN – Scan Mode) |
| 3. DISPLAY MODE | 12. PRESET 3 MEMORY (RPT – Repeat Mode) |
| 4. LOCAL-DISTANCE Control (LO/DX) | 13. PRESET 4 MEMORY (RDM – Random Mode) |
| 5. BEST STATION MEMORY | 14. PRESET 5 MEMORY (DIRECTORY DOWN) |
| 6. MODE (RADIO BAND/CDP) | 15. PRESET 6 MEMORY (DIRECTORY UP) |
| 7. TUNE / SEEK | 16. EJECT |
| 8. EQUALIZER (EQ) | 17. CD SLOT |
| 9. AM/FM BAND | 18. WARNING LED |

Note: Numbers inside circles e.g. ⑮ are used throughout this manual, to refer to each of the buttons shown on this page.

GENERAL



① POWER ON/OFF BUTTON

Press button ① momentarily to turn the set on or off. When the set is next switched on, the previous mode and disc play position will be restored.

① VOLUME UP/DOWN CONTROL

Turn button ① right to increase the volume level. The level will be shown as "VOLUME xx" on the display panel. Turn button ① left to decrease the volume level. After 5 seconds the display will return to the previous mode.

① START-UP VOLUME LEVEL SET UP

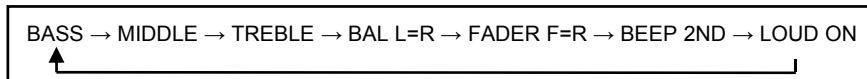
Start-up volume is the volume level the set will play at when next turned on. To adjust the start-up volume, press and hold button ① longer than 3 seconds. The current start-up volume level is displayed as a flashing number on the display panel.

Turn button ① left or right to increase or decrease the volume, then press button ① again to set that volume level as the start-up volume level.

GENERAL

② SOUND SETTING SELECTION

This button is to adjust the sound. Each time you momentary press button ②, LCD displays each mode as follows :



On each setting, the level can be controlled by turning button ②. The display will automatically return to the previous mode 5 seconds after the last adjustment is made.

Note: When the EQ mode is activated, the BASS, MIDDLE, TREBLE and LOUD modes are not displayed.

② BASS CONTROL (1ST setting)

To adjust the bass tone level, first select the bass mode by pressing button ② until "BASS" appears on the display panel. Within 5 seconds of selecting the BASS mode, turn button ② right or left to adjust the bass level as desired. The bass level will be shown on the display panel from a minimum of "BASS -10" to a maximum of "BASS+10". The display will automatically return to the normal indication in 5 seconds after the last adjustment, or when another function is activated.

② MIDDLE CONTROL (2nd setting)

To adjust the mid tone level, first select the middle mode by pressing button ② until "MIDDLE" appears on the display panel.

Within 5 seconds of selecting the middle mode, turn button ② right or left to adjust the mid level as desired. The mid level will be shown on the display panel from a minimum of "MIDDLE -10" to a maximum of "MIDDLE +10". The display will automatically return to the normal indication in 5 seconds after the last adjustment or, when another function is activated.

② TREBLE CONTROL (3rd setting)

To adjust the treble tone level, first select the treble mode by pressing button ② until "TREBLE" appears on the display panel. Within 5 seconds of selecting the treble mode, turn button ② right or left to adjust the treble level as desired.

The treble level will be shown on the display panel from a minimum of "TREBLE -10" to a maximum of "TREBLE +10".

The display will automatically return to the normal indication in 5 seconds after the last adjustment, or when another function is activated.

GENERAL



② BALANCE CONTROL (4th setting)

To adjust the left-right speaker balance, first select the Balance mode by pressing the Select button ② until the “BAL” indication appears on the display panel. Within 5 seconds of choosing the Balance mode, turn right/left to adjust the balance as desired. The balance position will be shown by the bars on the display panel from “BAL 10L” (full left) to “BAL 10R” (full right).

When the volume level between the left and right speakers is equal, “BAL L=R” will be shown on the display panel. The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

② FADER CONTROL (5th setting)

To adjust the front-rear speaker balance, first select the Fader mode by pressing the Select button ② until the “FADER” indication appears on the display panel. Within 5 seconds of choosing the Fader mode, turn right/left to adjust the front-rear speaker level as desired. The fader position will be shown by the bars on the display panel from “FADER 10F” (full front) to “FADER 10R” (full rear). When the volume level between the front and rear speaker is equal, “FADER F=R” will be shown on the display panel. The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

GENERAL

② BEEP CONTROL (6th setting)

To adjust the Beep mode, first select the Beep mode by pressing the Select button ② until "BEEP" appears on the display panel. The Beep mode will be shown on the display panel from "BEEP 2ND", "BEEP OFF" and "BEEP ON". The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated. Select "BEEP ON" when you wish to hear the "BEEP" sound whenever any function button is pressed. Select "BEEP 2ND" when you wish to hear the "BEEP" sound whenever any Tuner Pre-set button and/or Track cue or review buttons are pressed. Once the desired setting is displayed, press button ② to save your selected setting.

② LOUDNESS CONTROL (7th setting)

When listening to music at low volume levels, this feature will boost the bass and treble response. This action will compensate for the reduction in bass and treble performance experienced at low volume. To select the loudness feature, press button ② until "LOUD ON" or "LOUD OFF" is displayed, then turn button ② left or right to activate or deactivate loudness.

⑥ MODE BUTTON

Press MODE button ⑥ to select each radio band or CD player.

⑧ EQUALIZER (EQ)

You can select an equalizer curve for 4 music types (CLASSIC, POP, ROCK, JAZZ). Press EQ button ⑧ repeatedly until the desired equalizer effect is displayed. Each time you press this button, LCD displays each mode as follows :



Note: Bass, middle, treble and loudness will be ignored when the EQUALIZER function is active.

GENERAL

④ LOCAL-DISTANCE CONTROL (LO/DX)

Pressing button ④ momentarily alters the search sensitivity of the radio. In local sensitivity mode, the radio will select only local strong stations in station search mode. In distant sensitivity mode, the radio will select strong local stations and weaker distant stations in station search mode. When in local sensitivity mode, the display panel shows LOC in smaller characters constantly at the top of the LCD display. To change the sensitivity mode between local and distant mode, press button ④.

Note: If the desired radio station is not found during station search in either local or distant mode, try manually tuning to the frequency of the desired station by turning button ②.

⑱ WARNING LED

This LED lamp blinks every 1 second when the ignition is turned OFF.

ANTI-THEFT SECURITY PIN CODE

© ANTI-THEFT SECURITY PIN CODE INPUT

To activate the security pin code, please follow these steps.

1. Turn on your stereo.
2. If the stereo screen indicates "1 CDE", this is a message that you need enter your anti-theft security pin code.
3. Your security pin code number can be found on the card supplied with your new KIA vehicle.
4. Every KIA stereo has its own individual anti-theft security pin code. Entering an incorrect pin code or using incorrect procedures will not activate your stereo to an operational status.
5. Your anti-theft pin code is made up of four computer-generated numbers.
6. An example pin code may be 3212.
7. To enter pin code 3212 into your stereo, always follow these steps,
 - a. Press Pre-set 1 button ⑩ three times.
 - b. Press Pre-set 2 button ⑪ twice.
 - c. Press Pre-set 3 button ⑫ once.
 - d. Press Pre-set 4 button ⑬ twice
 - e. Check that the PIN code shown on your stereo screen is "3212".
 - f. Press Pre-set 5 button ⑭ to activate the pin code.

Your Stereo is now readied for full operation.

ANTI-THEFT SECURITY PIN CODE

8. Another example pin code number is 7963.
9. To enter pin code 7963 into your stereo, always follow these steps,
 - a. Press Pre-set 1 button ⑩ seven (7) times.
 - b. Press Pre-set 2 button ⑪ nine (9) times.
 - c. Press Pre-set 3 button ⑫ six (6) times.
 - d. Press Pre-set 4 button ⑬ three (3) times.
 - e. Check that the PIN code shown on your stereo screen is "7963".
 - f. Press Pre-set 5 button ⑭ to activate the PIN code.
10. Important : If you have entered the incorrect anti-theft pin code or used an incorrect procedure at your first attempt, your stereo screen will exhibit the following message "2 CDE". This means you need enter the pin code a second time taking care to follow these instructions and enter the correct pin code.
11. If the stereo screen show the message "3 CDE", this means you failed to follow the correct instructions or that you entered the incorrect pin code.
12. If you fail to succeed to enter the correct pin code at the third attempt, your stereo will turn off. You will need to wait at least one hour before attempting to re-enter the correct anti-theft security pin code number using the above procedures correctly.

Your KIA stereo has the anti-theft security pin code entered into it prior to you collecting your new KIA car.

The only time your stereo will identify the message "1 CDE" in the screen is if your stereo or car has lost battery power.

If your car battery is in good order, your stereo will accept your anti-theft security pin code number using the above procedure.

If you experience a failure to operate your stereo after carrying out the above procedure.

Please visit a KIA Dealer for additional assistance.

Please do not leave your card containing your anti-theft security pin code number in your car.

Keep your card featuring your pin code number in a safe secure place.

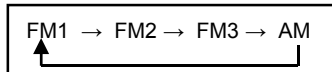
RADIO



⑨ AM/FM BAND SELECTOR (AM/FM)

Each time this button is pressed, the radio band is changed.

Each time this button is pressed, LCD displays each band as follows:



⑦ UP/DOWN TUNING (\wedge , \vee)

To automatically select a radio station, momentarily press the UP TUNE SEEK button (\wedge) ⑦ or DOWN TUNE SEEK button (\vee) ⑦ . The tuner will search for the next radio station.

② MANUAL TUNING

To manually tune to a radio station, turn button ② left or right to increase or decrease the radio frequency.

RADIO

⑤ PRE-SET SCAN (PS) / BEST STATION MEMORY (BSM) BUTTON

⑤ - (1) PRE-SET SCAN (PS)

Press BSM button ⑤ momentarily to scan the 6 pre-set station stored the memories on the AM bands or the 18 pre-set stations stored the memories on the FM bands. The unit will stop at each pre-set station (the pre-set number on the display panel will flash during pre-set scan operation) and remain on the selected frequency. Press the button momentarily again to remain on the station currently being heard.

⑤ - (2) BEST STATION MEMORY (BSM)

Pressing BSM button ⑤ for longer than 2 seconds will activate the BSM tuning feature which will automatically scan and enter each station into memory. If you have already set the pre-set memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter the new ones. This BSM feature is most useful when traveling in a new area where you are not familiar with the local stations.

⑩~⑮ STATION PRE-SET BUTTON

Whilst in radio mode, pressing buttons ⑩ to ⑮ for less than 3 seconds will recall the radio station pre-set to that button memory. To store radio stations into any of the 6 pre-set memories, in either the AM or FM bands, use the following procedure:

- Select the desired radio band by pressing momentarily MODE button ⑥.
- Select the radio station to be pre-set using the manual or automatic tuning methods describer earlier.
- Press and hold any of the pre-set buttons for longer than 3 seconds. The pre-set number will appear on the display panel indicating that the radio station is now set into that pre-set memory location.



Note: By pressing any pre-set button, the radio station stored in that memory location can be recalled at any time.

CD PLAYER





⑦ TRACK SELECTION & CUE / REVIEW BUTTON

⑦ - (1) TRACK SELECT FUNCTION

During CD player function, button ⑦ moves the playback forward to the next track or backwards to the start of the current or previous track. Each time the forward track select () is pressed, track number is increased. Each time the backward track select () is pressed, track number is decreased.

⑦ - (2) CUE/REVIEW FUNCTIONS

High-speed audible search cue and review of any track on a CD-DA (audio) disc can be made using this button ⑦. Press and hold the cue button () to advance rapidly in the forward direction or the review button () to advance rapidly in reverse direction.

Note: In case of playing MP3 disc, you can search the file using cue and review, but the MP3 track audio will not be heard. Play Cue and Review within a located file (song) and play sounds automatically at the first selection of a file.

② MP3 DIRECTORY/FILE SEARCHING

Button ② is used to select a particular directory and file on an MP3 disc. Press and hold button ② for more than 3 seconds.

Then, turn button ② right or left to display the available directories. Press button ② momentarily when the desired directory is displayed, then turn button ② left or right to display the tracks within that directory. Press button ② when the desired file is displayed to begin playback.

CD PLAYER

The Directory reading method is different as follows depending on the burning software like Easy CD or Nero Burning.

Method 1 :

ROOT → Dir01 → Dir02 → Dir03 → Dir04 → Dir05 → Dir06 → Dir07

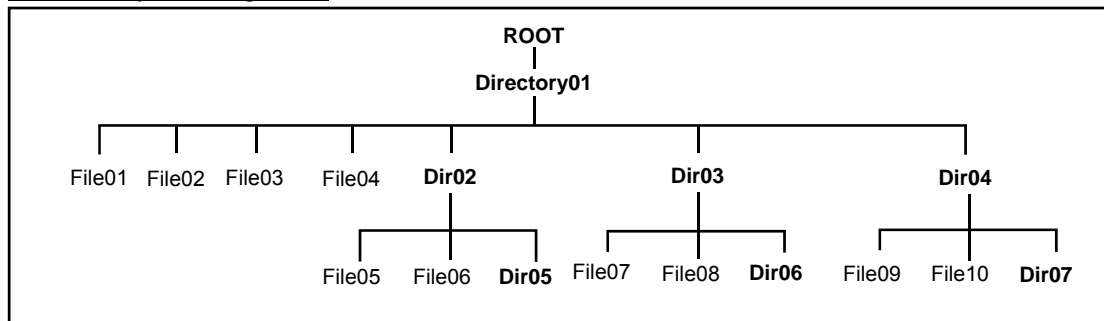
Method 2 :

ROOT → Dir01 → Dir02 → Dir05 → Dir03 → Dir06 → Dir04 → Dir07

If you want to search for a file/track in the selected directory, turn button ② right or left. Press button ② when you find the desired wanted. The unit will then play that selected file. For example, the file search changes in Dir01 as follows.

File01 → File02 → File03 → File04

MP3 directory/file configuration



CD PLAYER



⑩ PLAY/ PAUSE (▶/ ||)

Press this button (▶/ ||) momentarily when you want to stop playing music. "PAUSE" mark will blink on the LCD panel. Press the button again to return to the mode (▶/ ||) in use before mode was activated.

⑪ TRACK SCAN (SCN)

During disc play, press button ⑪ to play the first 10 seconds of each track on the disc. "SCN" will appear on the display panel. When the desired track is reached, press button ⑪ again to cancel the function. The set will then play the selected track. Track scan mode can be cancelled by activating random play, repeat play, track up/down or directory up/down button.

Note: When scan playing an MP3 disc, press and hold button ⑪ longer than 3 seconds; "SCN" will blink on the display panel and all files in the selected directory will be introduced until the scan mode is cancelled by pressing button ⑪ again, or by activating the random play, repeat play, track up/down or directory up/down button.

CD PLAYER

⑫ REPEAT PLAY SELECTOR (RPT)

During disc play, press button ⑫ to play the selected track repeatedly. "RPT" will appear on the display panel. Playback of the track will continue to repeat until the button is pressed again; "RPT" then disappears from the display panel. Repeat Play mode will also be cancelled by activating random play or scan play button.

Note: In case of playing MP3 disc, when button ⑫ is pressed and held longer than 3 seconds, "RPT" will blink on the display panel and play all files in the selected directory. The playback will be repeated until the directory repeat mode is cancelled by pressing the repeat button again, or by activating random play or scan play button. "RPT" will then disappear from the display.

⑬ RANDOM PLAY SELECTOR (RDM)

During disc play, press button ⑬ to play tracks on the disc in a random or shuffled order. "RDM" will appear on the display panel. The track select function ⑬ will also select tracks in the random mode instead of the normal sequence. The random play mode can be cancelled by activating scan play or repeat play button.

Note: In case of MP3 playback; when the random button is pressed and held longer than 3 seconds, "RDM" will blink on the display panel and play all files in the current directory randomly until the directory random mode is cancelled by pressing button ⑬ again or by activating scan play or repeat play button. "RDM" will disappear from display panel.

⑭ DIRECTORY DOWN (D-)

During MP3 playback, selection of the previous directory (if available on the MP3 disc) is possible by pressing button ⑭ briefly. The previous directory is located each time button ⑭ is pressed.

⑮ DIRECTORY UP (D+)

During MP3 playback, selection of the next directory (if available on the MP3 CD) is possible by pressing button ⑮ briefly. The next directory is located each time button ⑮ is pressed.

Note

- If the MP3 disc does not contain directories, the set plays MP3 tracks at 10-file intervals whenever button ⑮ is pressed.
- If the disc does not contain any MP3 files, this function does not operate.
- If the directory does not contain any MP3 files, the directory will not be shown.

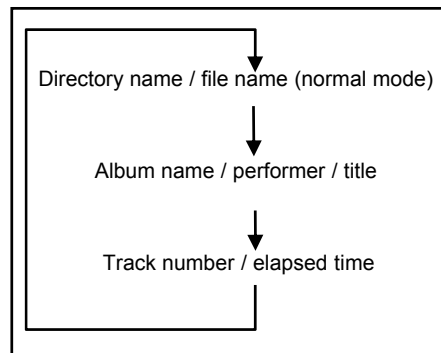
CD PLAYER



③ ID3 v2 (DISP)

Button ③ is used to change the display information. While playing an MP3/WMA file, you can change the file information shown on the display. Each time button ③ is pressed, the display changes to show the information shown at right.

Note : If the MP3/WMA file/track has no ID3 information, the display will show "NO ID3".



CD PLAYER

⑩ DISC EJECT (▲)

By pressing DISC EJECT button ⑩, the disc will be ejected and the set will return to the previous mode.

Note: When in case of Eject Error, press the Eject button for more than 5 seconds. The CD will force-eject.

⑪ DISC SLOT

With the printed label surface facing up, gently insert the disc into the slot until the soft loading mechanism engages. The display panel will show "READING" and then disc playback will commence.

Note: - Load the disc at a straight angle into the slot.

- This set is designed to play standard 5" (12cm) compact discs ONLY.

- Do not attempt to use 3" (8cm), either with or without an adapter, or discs fitted with an outer edge trim or frame, as damage to the player and/or disc can occur.

Damage to these discs and/or set will not be covered by the product warranty.

HANDLING COMPACT DISCS

- 1) Dirt, dust, scratches, and disc warpage can cause skipping in the play back and deterioration of sound quality.
Please observe these guidelines to take care of your compact discs :
 - Fingerprints, dust and dirt should be carefully wiped off the disc's playing surface (shiny side) with a soft cloth. Wipe in a straight motion from the inside to the outside of the disc.
 - Never use chemicals such as record sprays, household cleaners or thinner to clean compact discs. Such chemicals can irreparably damage the disc's surface.
 - Discs should be kept in their storage cases when not in use.
 - Do not expose discs to direct sunlight, high temperatures or high humidity for extended periods.
 - Do not stick paper, tape, or labels on the disc surfaces nor write on them with any type of marker.
- 2) Discs with non-standard shapes (e.g.: heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
- 3) Before playing, clean the discs with a commercially available cleaning cloth. Wipe each disc from the center out. Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog discs.
- 4) Some UDF CD-Rs/CD-RWs may have longer reading time.
- 5) Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- 6) MP3 CD-Rs/CD-RWs (depending on the recording method of the disc) may have some difference on sound level.

LCD DISPLAY FOR CD PLAYER ERROR

If a problem should develop while operating the CD player, the following error codes may be displayed on the LCD.

| LCD SYMBOL | ERROR | DESCRIPTION |
|------------|-------------------|--------------------------------|
| ERROR 1 | LOAD | Loading is not available. |
| ERROR 2 | MECHANISM | Mechanism problem. |
| ERROR 3 | FAULT | Mechanism fault. |
| ERROR 4 | SERVO | Servo error. |
| CD ERROR | CD DISC / CD DATA | Disc error. / Disc data error. |

PRODUCT AND WARRANTY SERVICE

Your KIA MP3/WMA CD Player is guaranteed against defective parts and workmanship for a period of three years from the date of vehicle Registration. MP3/WMA CD Player supports for MP3/WMA CD of Joliet, ISO9660 and UDF File Format.

In the event your MP3/WMA CD Player is faulty, please take your KIA vehicle to your nearest KIA dealer for their diagnostic inspection of your MP3/WMA CD Player.

If proven defective, your KIA dealer will implement a change over product service to replace your faulty MP3/WMA CD Player.

This product guarantee does not cover damage to your MP3/WMA CD Player (with CD, MP3/WMA and TUNER) if it has been subjected to misuse or abuse.

Failure of this product due to misuse or abuse will not be repaired under warranty.

This guarantee does not cover any call for warranty service or change over product service if it is recognized that your complaint is caused by your use of damaged, faulty CD Discs or imperfect CD-R and CD-RW discs.

MP3/WMA INFORMATION AND NOTICE

This car audio set plays compact discs containing MP3 files.

MP3 is an abbreviation of Motion Picture Experts Group (MPEG) Audio layer 3. MP3 audio format files are only 1/10th the size of conventional CD audio files. Most MP3 files are created on a personal computer using special software. Additional text information such as track TITLE, ARTIST and ALBUM included in the audio track can be displayed on the car audio set. Sound quality of MP3 files varies depending on the settings used when the file was created. Your KIA car audio set plays most MP3 files.

This car audio set plays compact discs containing WMA files.

WMA is an abbreviation of Windows Media Audio, an audio format developed by Microsoft Corporation. WMA is similar to MP3 with respect to size, sound quality and text display. WMA files are created using the Windows Media Player on a personal computer. Your KIA audio set plays most WMA files.

NOTES for MP3/WMA playback:

- The elapsed playing time on the audio set's display may not be correct when playing MP3 files encoded with variable bit rate (VBR).
- MP3 and WMA files encoded at bite rates lower than 128 KB/s will provide lower sound quality compared to conventional CD audio tracks.
- MP3 and WMA files with digital rights management* (DRM) activated cannot be played on this car audio set.

For technical information, see the following page in this manual titled 'SPECIFICATIONS'.

* To disable DRM, locate the 'Protect Content' settings in your MP3/WMA encoding software and re-encode the audio tracks. Copyright may exist on some audio program material; MP3/WMA files are used at your own responsibility.

WARNING AND PRECAUTIONS

1) WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

2) PRECAUTIONS

When the inside of the car is very cold and the player is used soon after switching on the heater moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.

SPECIFICATIONS

| | |
|-------------------------------|---|
| Output Power | 180 Watts (4 x 45 Watts) |
| Tuning Range | AM: 522-1620 KHz, 9 KHz. steps FM: 87.5-108.0 MHz, 100 KHz. steps |
| Sensitivity | AM: 15 μ V FM: 1.5 μ V |
| FM Stereo Separation | 30 dB |
| CD Frequency Response | 20-20,000 Hz |
| CD S/N Ratio | 60 dB |
| CD Channel Separation | 40 dB |
| CD Audio Format | Red Book (IEC 908) |
| Logical File Format | ISO 9660 (level 1,2 & 3), Joliet UDF (1.02, 1.50, 2.00/2.01, 2.50/2.60) |
| Usable Sampling and Bit Rates | MP3: Sampling rate 44.1 KHz, Bit rate 32-320 KB/s with VBR WMA: Bit rate 48-192 KB/s |
| ID3 Tags | ID3v1, ID3v2 |