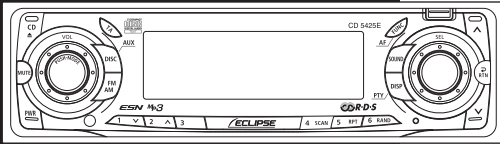# ECLIPSE®

OWNER'S MANUAL

Superb Sound Quality CD Receiver with MP3
We appreciate your purchase of this receiver.
Please read through this manual for correct operation.
We suggest that after reading it you keep this manual
in a safe place for future reference.

English

CD 5425E

CD5425E

FUJITSU TEN

For your safety in using the CD5425E

Warnings and caution signs, illustrated below, are posted throughout this manual as well as on the CD5425E. They show safe and correct ways to handle the product so as to prevent personal injury to you, others and to avoid property damage.

Before reading through the manual, take time to read through and learn the important information listed in this section.

⚠ **Warning**	This sign indicates a situation in which incorrect handling or disregard of this sign might result in death or serious personal injury.
⚠ **Caution**	This sign indicates a situation in which incorrect handling or disregard of this sign might result in personal injury or may result solely in damage to property.

Please read all materials such as manuals and warranties that have come with the product.

Eclipse will not be liability for unsatisfactory product performance due to failure to follow these instructions.

⚠ *WARNING*

● **Do not modify this system for use other than that specified herein. Also, do not deviate from the installation procedures described herein; Eclipse will not be held liable for damages including, but not limited to serious injury, death or property damage resulting from installations that enable unintended operation.**

● **This equipment requires 12V DC and should only be installed in a vehicle with a 12V negative ground electrical system. Any other installation may cause a fire or other severe damage to the equipment and the vehicle.**

● **Some equipment uses batteries. Never install equipment where young children can get access to batteries. If a battery is swallowed, seek medical attention immediately.**

● **When vehicle is moving, never take your eyes off the road to make adjustments to the equipment. You must pay attention to the road to avoid accidents, do not let the operation or adjustment of the equipment distract you from proper vehicle operation.**

● **The driver should not look at the screen while driving. Accidents may result if you are not paying attention to the forward direction.**

● **Do not put foreign objects in the loading slot of disc. Fires or shocks may result.**

● **Do not disassemble or alter this equipment. Accidents, fires or shocks may result.**

● **Do not let water, dust or foreign objects enter the internal parts of this equipment. Smoke, fires or shocks may result.**

● **Pay attention to where the remote control is left. Traffic accidents or problems with driving may result if the remote control makes its way under the foot pedals etc. when the vehicle is stopped or when it goes around a corner.**

● **Do not use when it is broken (the screen is not lit or no sound comes out). Accidents, fires or shocks may result.**

⚠ *WARNING*

● **Always replace fuses with fuses of identical capacity and characteristics. Never use a high capacity fuse than the original. Using the wrong type of fuse may cause a fire or severe damage.**

● **If foreign objects or water enters the equipment, smoke comes out, or there is a strange odor, stop using it immediately, and contact your dealer. Accidents, fires, or shocks may result if you continue to use it in these conditions.**

● **The driver should not change the CD while driving. As accidents may result if you are not paying attention to the forward direction, first stop the car at a safe location and then proceed.**

● **Plastic bags and wrappings may cause suffocation and death. Keep away from babies and children. Never put bag over your head or mouth.**

⚠ *CAUTION*

● **When changing the installation location for this equipment, please consult the dealer where you bought it for safety reasons. Expertise is necessary for removal and installation.**

● **Keep volume to a reasonable level so that you can hear sounds from outside the vehicle, including warning sounds, voices, and sirens. Failure to do so may cause an accident.**

● **Be careful that hands and fingers are not pinched when adjusting the tilting angle or closing display. Injuries may result.**

● **Do not put your hands or fingers into the loading slot of disc. Injuries may result.**

● **Do not touch the heat dissipating part of the amp. Burns may result from the heat of this part.**

● **Do not recharge dry batteries. Dry batteries may rupture, resulting in injuries.**

● **Do not use batteries other than those specified. Also, do not mix old and new batteries. Injuries or pollution to the surroundings may result from battery ruptures and leakage.**

● **When inserting batteries into the equipment, be careful with the polarity (positive/negative), and insert them as indicated. If the battery polarities are incorrect, injuries and pollution to the surroundings may result from battery ruptures and leakage.**

● **Replace used batteries as soon as possible; they may leak and damage equipment. Battery leakage can burn your skin or your eyes. Wash hands after handling.**

● **If alkaline solution from alkaline dry batteries makes contact with your skin or clothes, flush with clean water. If any of the solution gets in your eyes, also flush clean with water and then seek medical attention.**

● **When disposing of lithium dry batteries, affix insulating tape to the positive and negative terminals, and after they are insulated, dispose of them according to the "Local municipal ordinances". Shorts, fires and ruptures may result from disposal when coming contact with other electrically conductive objects such as metal parts, etc.**

● **Do not short, disassemble or heat the batteries, or place them in fire or water. Fire and injuries may result from battery rupture and leakage.**

● **Store the remote control in a place away from direct sunlight, high temperatures, and high moisture levels. The case may change shape, and the batteries may rupture and leak.**

● **Do not use this equipment except for in-vehicle use. Shocks or injuries may result.**

⚠ *CAUTION*

● **Be careful of the position of the volume when turning the power source ON. Hearing damage may result if very loud noise is emitted when the power is turned ON.**

● **Do not operate under abnormal conditions such as when the sound is broken or distorted. Fires may result.**

● **This equipment uses invisible laser light. Do not disassemble or alter this equipment. If trouble occurs, contact the dealer where you bought the equipment.**
Altering this equipment may cause exposure to laser emissions (worsening eyesight), or result in accidents, fires or shocks.

● **If the equipment is dropped or the cosmetics appear broken, turn off the power to the main unit and contact your dealer. If used in this condition, fires or shocks may result.**

● **A CLASS 1 LASER PRODUCT label is affixed to the top of this unit.**

CLASS 1
LASER PRODUCT

Table of Contents

Table of Contents

How to operate the tuner... 90

How to use the optional remote control 97

Operating precautions

<Your CD5425E will perform well over a long period of time through correct handling and care.>

Notes on operation

• For your safety, play only at volume levels that allow outside sounds to be heard.

• We recommend using with this player a disc with the logo shown to the left.
• You can play music CDs(CD-R/CD-RW) on this player. Be sure to use discs that have been properly processed.
Depending on the editing equipment used, some discs may not play properly.
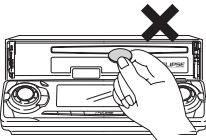
• Do not insert anything other than a CD into the head unit.
Do not insert any foreign objects, such as coins or credit cards, into the disc slot. Be especially watchful of children's mischief in this regard.

• Avoid severe mechanical shock.
When the player is subjected to severe vibration while traveling over a rough surface, playback may be intermittent. When a situation like this occurs, resume playback after returning to a smoother road.

• About dew condensation.
In cold or rainy weather, just as the interior glass surface gets fogged, dew (water condensation) may also settle on the deck. When this occurs, disc playback may become intermittent or impossible. Dehumidify the air in the vehicle for a while before resuming playback.

• Cleaning the disc slot.
The disc slot tends to get dusty. Clean it occasionally to prevent accumulated dust from scratching the discs.

Names of controls and parts

Front view
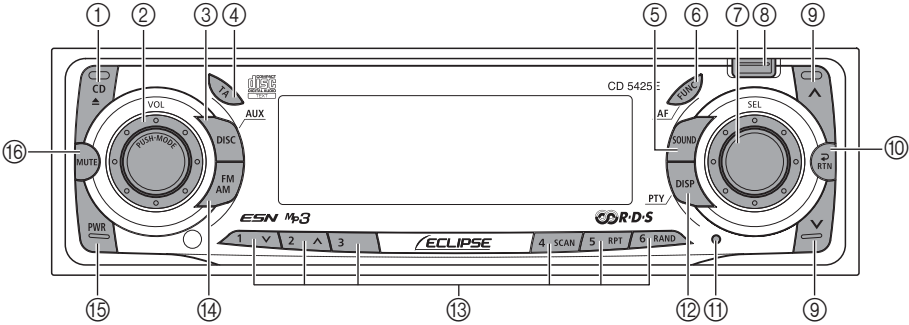
No.	Button	Name/Working
①	[CD▲ (OPEN / EJECT)] button	**[CD▲ (OPEN / EJECT)] button** Opens/closes front panel and ejects CD.
②		**[AUDIO CONTROL] button** Adjusts volume and performs other functions.
③	DISC	**[DISC] button** Switches to between disc modes and AUX mode.
④	TA	**[TA] button** Selects the TP or TA mode.
⑤	SOUND	**[SOUND] button** Turns the sound adjustment mode ON/OFF. Change in equalizer mode.
⑥	FUNC	**[FUNC / AF] button** Turns function mode ON/OFF. Switches to AF mode and REG mode.
⑦		**[SEL] button** Selects radio stations and CD tracks.

No.	Button	Name/Working
⑧		**[Release] button** Detach the right end of the front panel from the body of the unit.
⑨	∧ / ∨	**[∧ / ∨] button** Automatically finds radio reception or to fast forward/ rewind.
⑩	RTN	**[RTN] button** Returns to previous screen.
⑪		**[RESET] button** Reset deck functions to default settings.
⑫	DISP	**[DISP / PTY] button** Turns the display adjustment mode ON/OFF and switches screen display. Switches to PTY mode.

No.	Button	Name/Working
⑬	1 ∨ 2 ∧ 3 4 SCAN 5 RPT 6 RAND	**Buttons [1] to [6]** Selects radio preset channels and performs disc mode functions.

No.	Button	Name/Working
⑭	FM AM	**[FM AM] button** Switches to radio mode and switches radio bands.
⑮	PWR	**[PWR] button** Turns deck power ON/OFF.
⑯	MUTE	**[MUTE] button** Activates and deactivates mute.

⑰
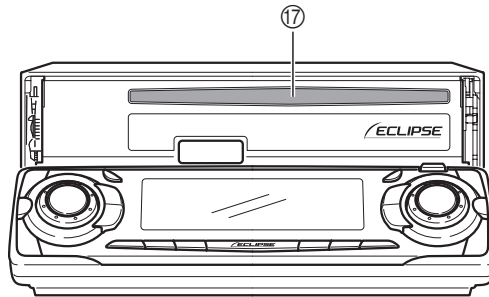
No.	Name/Working
⑰	**Disc slot** Inserts compact discs.

⚠ *CAUTION*

Never place an object or rest your hands or the like on the front panel.

Turning the power on and off

When the power is turned on, the state used when the power was turned off such as CD and tuner playback is restored.

When the vehicle has no ACC position on the ignition switch, care is needed when turning off the deck. Follow Step 2 or Step 3 when turning off the power.

1 When power is OFF, press the [PWR] button.

The power will come ON.

📖 ATTENTION

When the deck's power is turned on for the first time or if the battery terminals have been disconnected because of a reason such as vehicle maintenance and the power is then turned back on, the deck will start up in FM1 mode. After this, the broadcast stations will be searched for automatically and stored in buttons [1] to [6].

2 When power is ON, press the [PWR] button for less than two seconds.

The power will go OFF and the deck will be in Standby.

If you press the [PWR] button again for more than one second, the power will go completely off.

3 When power is ON, press the [PWR] button for more than two seconds.

The power will go completely OFF.

📖 ATTENTION

If a car is not equipped with an ACC position, press the [PWR] button for more than two seconds.

III

■ 77 ■

Remote control (optional)
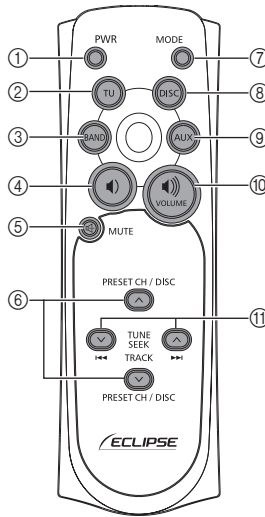
No.	Button	Name/Working
①		**[PWR] button** Turns deck power ON/OFF.
②		**[TU] button** Switches to tuner mode.
③		**[BAND] button** Switches to radio mode and DISC mode.
④		**[◀)] button** Decreases the volume.
⑤		**[MUTE] button** Activates and deactivates mute.
⑥		**[∨ PRESET CH ∧] buttons** **[∨ DISC ∧] buttons** Selects radio preset channels and performs disc mode functions.

No.	Button	Name/Working
⑦		**[MODE] button** Switches to playback mode.
⑧		**[DISC] button** Switches to DISC mode.
⑨		**[AUX] button** Switches to AUX mode.
⑩		**[◀)] button** Increases the volume.
⑪		**[∨ TUNE·SEEK ∧] buttons** **[▶▶ TRACK ◀◀] buttons** Selects radio stations and CD tracks.

■ 78 ■

How to operate the CD player

About compact discs

• The signal recorded on a compact disc is read by a laser beam, so nothing touches the disc surface. A scratch on the recorded surface or a badly warped disc may cause deteriorated sound quality or intermittent playback. Observe the following precautions to ensure high quality sound performance:
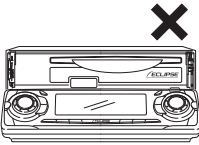
• Do not leave an ejected disc in the disc slot for very long; the disc may warp. Discs should be stored in their cases and kept away from high temperature and humidity.
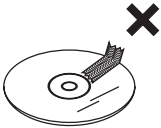
• Do not stick a piece of paper or tape. Do not write on or scratch either side of a disc.

• Discs spin at a high speed inside the deck. Keep cracked or warped discs out of the player to avoid damage it.
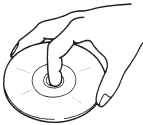
• Avoid touching the recorded surface when handling a disc; handle discs by their edges.

About brand new CDs

Rough Edges

Ballpoint pen

Rough Edges

Flakes

Recorded surface
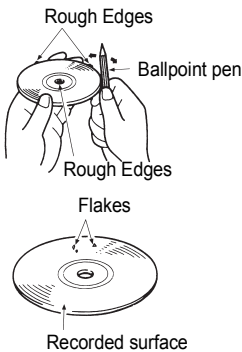
• You may notice that some brand new discs are rough around the centre hole or outside edge. Remove the rough edges with the side of a ballpoint pen, etc. Rough edges may prevent proper loading in the deck. Flakes from the rough edges may also stick to the recorded surface and interfere with playback.

■ 79 ■

About CD accessories
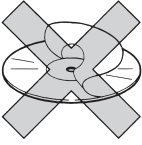
- Do not use accessories (stabilizers, protective seals, laser lens cleaners, etc.) sold for "improving sound performance" or "protecting CDs." The changes in CD thickness or outside dimensions made by these accessories may cause problems in the player.

- Please be sure NOT to attach any ring-shape protector (or other accessory) to your discs. Those protectors are commercially available and said to protect disc and to improve sound quality (and antivibration effect), but they can do more harm than good in regular uses. The most common problems are disc insertion, disc ejections, and won't play problems due to the protector ring that came off in the disc mechanism.

About borrowed CDs

- Do not use a CD with glue or remnants of adhesive tape or labels. They may cause the CD to get stuck inside or damage the deck.

How to remove CDs
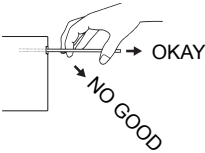
- When removing the ejected disc, pull it straight out along the slot. Pressing downward in the process may scratch the recorded surface of the disc.

About irregularly-shaped CDs
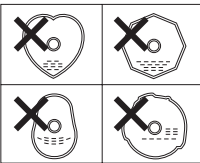
- Specially-shaped CDs, like heart-shaped or octagonal CDs, cannot be played. Do not attempt to play them, even with an adapter, since they may damage the player.

About cleaning a CD

- Use a commercially available compact disc cleaner to clean a CD, wiping gently from the centre to the edge.
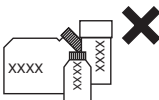
- Do not use benzine, thinner, LP record spray or other cleaners on CDs. They may damage a CD's finish.

Listening to CD

1 **Press the [CD▲] button.**

The front panel opens.

If a disc has already been loaded, the disc is ejected by pressing the [CD▲] button.

2 **Insert a CD into the disc slot, label side up.**

The CD will immediately start playing.

📖 ATTENTION

When a CD is already loaded, press the [DISC] button to switch to the CD mode.

⚠ *CAUTION*

Do not press the [CD▲] button while CD is being inserted. This could cause an injury and damage to the front panel.

Switching to the CD player mode

First press the [DISC] button for less than one second to switch to the disc mode. It is assumed here that a CD has already been loaded into the unit.

IV

1 **Press the [DISC] button for less than one second to switch to the CD player mode.**

This starts CD play.

If an external CD changer is connected, each additional press of the [DISC] button will switch modes from CD player ➔ CD changer 1 ➔ CD changer 2 ➔ CD player.

A changer or player with no discs loaded will be skipped.

📖 ATTENTION

• Playback may be intermittent when there is a scratch on a CD or when the recorded side is dirty.
• Only two external CD changers may be connected.

Advancing to the next track or returning to the beginning of the track being played

1 **Turn the [SEL] button to the left or right.**

Turn to the right:
Advances to the next track.

Turn to the left:
Returns to the beginning of the track being played. (Repeat turning for previous tracks.)

Fast Forward/Rewind

Fast forward or rewind the song currently being played.

1 **Press and hold the [∧] or [∨] button.**

[∧] button:
 Fast forward.

[∨] button:
 Rewind.

Playing the beginning of tracks (SCAN)

1 **Press the [4 SCAN] button.**

Pressing the button causes the player to move up to the next track and play it for 10 seconds, then move up to the next track and play it for 10 seconds, and so on until the button is pressed again.

ATTENTION

• To continue playing a desired track, press the button again to stop scanning.
• After the entire disc is scanned once, ordinary playback starts from the point where scanning started.

Repeating the same track (REPEAT)

1 **Press the [5 RPT] button to repeat the track being played.**

To cancel, press the [5 RPT] button again.

Playing tracks in random order (RANDOM)

1 **Press the [6 RAND] button to play the tracks in random order.**

To cancel, press the [6 RAND] button again.

ATTENTION

• During random playback, press the [5 RPT] button to repeat the track being played. To cancel repeat play (go back to random play), press the [5 RPT] button again.
 During playback of a particular track: The track being played is played repeatedly.
 While searching: The following track is played repeatedly.
• Occasionally the same track happens to be played (selected) two or more times in a row; this is normal operation and is not a sign of a problem.
• When any of the functions - "Playing the beginning of tracks, "Repeating the same track" and "Playing tracks in random order" - is selected, a message such as [SCAN], [REPEAT] or [RANDOM] appears on the display to verify the current function.

Displaying CD text

Only the built-in CD player supports CD TEXT. It can not be displayed with the optional CD changer. If the CD came with a logo shown below, it is recorded with a disc title and track titles. These information will be displayed during playback.

1 **Press the [DISP] button for more than one second.**

Pressing the [DISP] button while text is displayed scrolls the display in the order DISC title ➔ TRACK title, and then the display stops with the TRACK title.

CD TEXT recorded with characters other than alphanumeric and symbols cannot be displayed.

Ejecting the disc

1 **Press the [CD▲] button for more than one second.**

The front panel opens and the disc is ejected.

2 **Remove the disc and press the [CD▲] button.**

The front panel closes.

⚠ *CAUTION*

• Do not drive with the front panel open. The panel may cause unexpected personal injury during a panic stop, or the like.

• Do not attempt to close the front panel by hand. Doing so may damage the panel.

IV

How to operate the MP3 player

About MP3

📖 ATTENTION

The making of MP3 files by recording from sources such as broadcasts, records, recordings, videos and live performances without permission from the copyright holder for uses other than personal enjoyment is prohibited.

What is MP3?

MP3 (MPEG Audio Layer III) is a standard format for audio compression technology. By using MP3 a file can be compressed to one-tenth the size of the original.
This deck has limitations on MP3 file standards and recorded media and formats that can be used.

Playable MP3 file standards

- Supported standards:MPEG-1 Audio Layer III
- Supported sampling frequencies: 44.1, 48 (kHz)
- Supported bit rate: 64, 80, 96, 112, 128, 160, 192, 224, 256, 288, 320 (kbps)
  * Supports VBR. (64~320kbps)
  * Does not support free format.
- Supported channel modes: stereo

ID3 tag

MP3 files have an "ID3 Tag" that allows input of information so that data such as song title and artist can be saved.
This deck supports ID3v. 1.0, 1.1 tags.

Media

Media capable of playing MP3 includes CD-R and CD-RW discs. Compared to CD-ROM media commonly used for music discs, CD-R and CD-RW discs are fragile in high temperature/high humidity environments and one section of the CD-R and CD-RW may become incapable of playback. Fingerprints or scratches on the disc may prevent playback or cause skipping during playback. Sections of a CD-R and CD-RW may deteriorate if left inside a vehicle for long periods of time. It is also recommended that CD-R and CD-RW discs be kept in a light-blocking case because the discs are vulnerable to ultra-violet light.

Format of discs

The format of discs to be used must be ISO9660 Level 1 or Level 2.
Control items for this standard are as follows:

• Maximum directory layers: 8 layers

• Maximum characters for folder names/file names:32 (including "." and 3 letter file extension)

• Allowable characters for folder names/file names:A~Z, 0~9, _ (underscore)

• Number of files/folders possible on a single disc: 999

[Configuration example for CD supporting MP3]
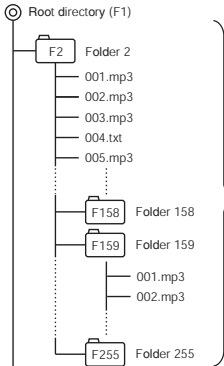
Number of files/folders possible on a single disc is 999.
Files aside from MP3 files (Example: 004.txt) also count as single files.

• Total number of folders possible on a single disc:255

• Maximum folders this deck can recognize: 256*

*: A root directory is counted as one folder.

File names

Only files with the MP3 file extension ".mp3" can be recognised as MP3 and played. Be sure to save MP3 files with the ".mp3" file extension. The "MP" letters of the file extension will be recognised whether entered as uppercase letters or lowercase letters.

⚠ *CAUTION*

If the ".mp3" file extension is attached to a file other than an MP3 file, that file will be mistakenly recognised by the deck as an MP3 file and played, resulting in loud noise output that can damage the speakers. Be sure to avoid attaching the ".mp3" file extension to files that are not MP3 files.

Multi-sessions

Multi-sessions are supported, and playing of CD-R and CD-RW discs with annotated MP3 files is possible. However, when "Track at once" has been written, close the session or process the warning message. Standardise the format of each session without changing the format.

■ 85 ■

Playing MP3

When a disc with recorded MP3 files is inserted, the deck first checks all the files on the disc. No sound is output while the deck is checking the files on the disc. It is recommended that the disc be recorded without files other than MP3 files and without unnecessary folders in order to speed up the checking of disc files by the deck.

MP3 playing time display

It is possible that playing time will not be correct, depending on the writing condition of the MP3 file.

*It is possible that playing time will not be correct when VBR Fast Up/Down is operated.

Display order of MP3 file/folder names

Names of MP3 folders and files within the same level are displayed in the following order.

1.MP3 folders displayed first, by ascending order of numbers, letters.

2.Files displayed next, by ascending order of numbers, letters.
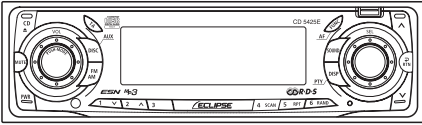
Listening to MP3 file

1 **Switch to the CD player mode.**

⚠ *CAUTION*

• Playback may be intermittent when there is a scratch on a CD or when the recorded side is dirty.

• Only two external CD changers may be connected.

● *Note* ●

• When music data recorded in the normal way (CD-DA) is present on the same disc with MP3 music files, the normally recorded music data will be played. To listen to the MP3 music files, press button [3] for more than one second.

• When a non-MP3 file is played, "NO SUPPORT" will appear.

• The optional CD changer cannot be used to play MP3 files.

V

Advancing to the next track (file) or returning to the beginning of the track (file) being played

1 **Turn the [SEL] button to the left or right.**

Turn to the right:
  Advances to the next track (file).

Turn to the left:
  Returns to the beginning of the track (file) being played.
  Repeat turning for previous tracks (files).

■ 87 ■

Skipping to the next or previous folder

1 **Press button [1 ∨] or [2 ∧].**

Button [1 ∨]:
Selects the previous folder

Button [2 ∧]:
Selects the next folder.

Fast Forward/Rewind

Fast forward or rewind the song currently being played.

1 **Press and hold the [∨] or [∧] button.**

[∧] button:
Fast forward.

[∨] button:
Rewind.

Return to the root directory of the CD

In the root directory, when a file cannot replay, the system will return to the first file that can perform a replay. (In the configuration example, the file is returning to 001.mp3. see page 85.)

1 **Press the [RTN] button.**

Playing the beginning of files (SCAN)

1 **Press the [4 SCAN] button.**

Press the button briefly to play just the first 10 seconds of each song for all the files in the same layer of the folder being played.

On pressing the button for longer than 2 seconds, [FOLDER SCAN] is displayed and just the first 10 seconds of the first song in each folder is played.

ATTENTION

- To continue playing a desired file, press the button again to stop scanning.
- After the entire disc is scanned once, ordinary playback starts from the point where scanning started.

Repeating the same file (REPEAT)

1 **Press the [5 RPT] button.**

Press the button briefly to repeat the file being played.

On pressing the button for longer than 2 seconds, [FOLDER REPEAT] is displayed and all the files in the same layer as the folder being played are repeated.

To cancel, press the [5 RPT] button again.

Playing files in random order (RANDOM)

1 **Press the [6 RAND] button.**

Press the button briefly to randomly play the files in the same layer as the folder being played.

On pressing the button for longer than 2 seconds, [ALL RANDOM] is displayed and the files in all folders are played randomly.

To cancel, press the [6 RAND] button again.

ATTENTION

• During random playback, press the [5 RPT] button to repeat the file being played. To cancel repeat play (go back to random play), press the [5 RPT] button again.

During playback of a particular file: The file being played is played repeatedly.

While searching: The following file is played repeatedly.

• Occasionally the same file happens to be played (selected) two or more times in a row; this is normal operation and is not a sign of a problem.

Displaying title

1 **Press the [DISP] button for more than one second.**

Each time the button is pressed, the following will be displayed in order.

Folder Name/File Name* ➜ Folder No. /File No. ➜ Tag

*:The display area shows a maximum of 9 characters and then scrolls to display the remaining characters.

After the folder name is displayed, the file name will be displayed by scrolling. After the file name is scrolled, the display will be fixed.

ATTENTION

Folder name/file name or tag recorded with characters other than alphanumeric and symbols cannot be displayed.

V

How to operate the tuner

FM reception characteristics

In general, FM has much better tonal quality than AM. However, FM and FM stereo reception encounter several characteristic problems not encountered with AM. FM is more difficult to receive than AM in a moving vehicle. The following are explanatory notes on what to expect from FM reception and on how to get satisfactory performance.

FM reception differs from AM
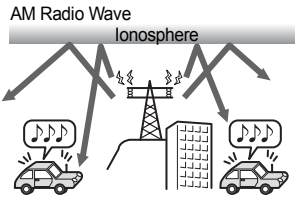
A characteristic of transmitted signals is that lower frequencies travel further. FM frequencies are much higher than AM's (similar to a ray of light): they won't bend but they will reflect. Often, they will be interrupted by tall buildings, mountains, etc., taking direct and indirect paths to your vehicle's antenna. The distance at which FM stations can be received satisfactorily is usually not nearly as far as that which AM stations can be received.
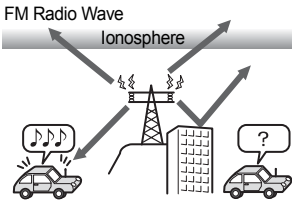
Fading out

In weak signal or "fringe" reception areas, FM stations may fade out completely, or fade in and out. When driving in weak signal areas, such as near hills, through valleys or tunnels, among tall buildings, etc., you may encounter unusual noise interference. THIS IS NOT A TUNER PROBLEM. In this case, you can only wait until you are in a better reception area, tune to a stronger station, or reduce the treble level.

Reception area of FM broadcasts

Transmitting Antenna 100 Meters High
Effective Radiation Power 1kW

FM Stereo Car Radio 20 km

FM Monaural Car Radio 50 km

Home FM Stereo Receiver 100 km
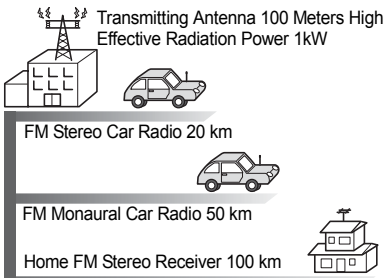
Reception quality varies depending on the power of the FM station, natural and artificial barriers, weather conditions, etc.

A home receiver can catch weak FM stereo signals through the use of a tall, directional or ultra-sensitive antenna. In a moving vehicle, the area for good reception is limited because of varying conditions encountered while driving, including the types and heights of broadcast antenna structures, signal strength, engine noise, etc. For best reception with manual antenna, extend the antenna mast as far as possible.

VI

Multipath

DIRECT WAVE

REFLECTED WAVE
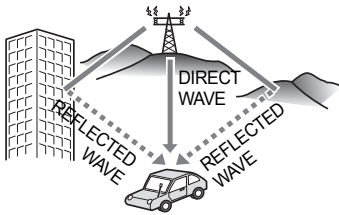
REFLECTED WAVE

The reflection characteristics of FM waves cause another problem called multipath–FM wave signals reflecting off of buildings, mountains, etc. When the antenna receives direct and reflected waves at the same time, distortion of sound in the treble range often occurs, such as static or harsh-sounding voices. THIS IS NOT A TUNER PROBLEM. Only moving to another area with a clearer signal path can remedy the situation.
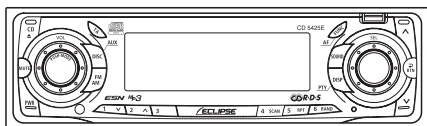
📖 ATTENTION

• If stations have been stored in memory, pressing a button from [1] to [6] will directly select a station. (Refer to "Manually setting stations into memory" on page 93)

Tuning to a station

First, press the [FM AM] button to start tuner operation.

There are automatic and manual methods for setting stations in memory. The receiver will accept up to 30 stations in memory: 6 in AM (MW), 6 in LW and 18 in FM (6 each for FM1, FM2 and FM3.) (Initial setting)

1 **Press the [FM AM] button for less than one second to switch to the desired FM, AM (MW) and LW bands.**
Radio bands will switch from FM1 ➔ FM2 ➔ FM3 ➔ AM (MW) ➔ LW in order each time the button is pressed.

2 **Turn the [SEL] button to the left or right to tune to a station.**

Turn to the right:
 Tunes to higher frequencies.

Turn to the left:
 Tunes to lower frequencies.

3 **Press the [∧] or [∨] button to start the automatic station**
[∧] button:
 Starts searching toward higher frequencies.

[∨] button:
 Starts searching toward lower frequencies.

📖 ATTENTION

At times, it may be difficult to maintain optimum reception because the antenna affixed to your vehicle is in motion constantly (relative to the broadcast antenna), encountering continuous variation in the received radio signals' strength. Other factors affecting reception include interference from natural obstacles, sign posts, etc.

Entering stations into memory automatically (The automatic preset mode: ASM)

1 **Press the [FM AM] button for less than one second.**
You can switch the mode to desired one.

2 **Press the [SEL] button for more than two seconds until a beep is heard.**

The automatic preset mode starts.

The [ASM ON] indicator on the screen flashes, and stations are automatically entered in memory under buttons [1] to [6].

These buttons are called preset buttons.

📖 ATTENTION

- Pressing the preset buttons ([1] to [6]) allows you to make one-touch station selections. The frequency of the selected station is indicated on.
- When a new station is set in memory, the station previously set in memory will be deleted.
- If there are fewer than six receivable stations, the stations set in the remaining buttons will be retained.

⚠ *CAUTION*

If the vehicle's battery is disconnected (for repairs to the vehicle or for removing the receiver), all stations in memory will be lost. In such a case, set stations in the memory again.

Manually setting stations into memory

This section covers the setting of stations in memory under the numbered buttons.

1 **Press the [FM AM] button for less than one second.**

You can switch the mode to desired one.

2 **Turn the [SEL] button to the right or left to tune to the station to be entered in memory.**

3 **Select any button, from [1] to [6], and press it for more than two seconds.**

The tuned station is now memorized and set in the button selected. Repeat the procedure to set additional manually tuned stations in memory, in turn, for buttons [1] to [6]. These buttons are called the preset buttons.

⚠ *CAUTION*

If the vehicle's battery is disconnected (for repairs to the vehicle or for removing the receiver), all stations in memory will be lost. In such a case, set stations in memory again.

VI

Preset station scan

This function enables reception of all the stations in the preset buttons for five seconds each.

1 **Press the [SEL] button for less than two seconds.**

[P SCAN] will appear on the display, and stations stored under preset buttons [1] through [6] will be played for five seconds each.

2 **To stop the preset scan mode at a desired station, press the [SEL] button again.**

The receiver will stay tuned to the desired station.

Changing the reception sensitivity for automatic scanning

The deck lets you select the reception sensitivity to be used for automatic scanning of stations. The two sensitivity modes available for this deck are AUTO mode and DX mode.

AUTO Mode	During automatic scanning, the reception sensitivity switches automatically to one of two levels. Initially the reception sensitivity is set to the low level so that only stations with strong signals are received. If no stations could be received, the reception sensitivity is increased so that stations with weaker signals can also be received.
DX Mode	Because the reception sensitivity for automatic scanning is set to the high level from the start, even stations with weaker signals can be received. (Signal crossover may result in some stations being hard to hear.)

1 **Check that the deck is in standby mode.**

2 **Press and hold button [1], then the [FM AM] button, and hold both for more than three seconds.**

The mode switches between AUTO mode and DX mode each time the buttons are pressed.

The RDS (radio data system) is a data broadcasting system that makes use of unused FM broadcast channels. It utilizes the subcarrier waves from an FM broadcasting station to provide an information service sending, for example, various kinds of data and traffic information.

This capability can be used in this unit's FM mode.

Receiving RDS data

Setting AF (Alternative Frequency)

When this function is ON, the unit automatically switches to the frequency where the reception status of the station you are currently listening to becomes the best. By default, the AF function is ON.

Setting REG (REGIONAL)

Some stations may broadcast different programs according to the local area. When the REG function is ON, switching to the other station that broadcasts different program is prevented.

1 **Press the [AF] button for longer than one second and select an item.**

AF-ON/REG-OFF ➜ AF-ON/REG-ON ➜ AF-OFF/REG-OFF ➜ AF-ON/REG-OFF ⋯

When the AF function is ON:
The [AF] indicator is lit on the display.

When the REG function is ON:
The [REG] indicator is lit on the display.

Receiving traffic information

Setting the TP (traffic program)/the TA (traffic announcement)

1 **Press the [TA] button and select an item.**
Repeatedly pressing the [TA] button will cycle you through the following options.

TP OFF/TA OFF ➜ TP ON/TA OFF ➜ TP ON/TA ON ⋯

When TP is set to ON and TA is set to OFF:

When the traffic information station is received, the [TP] indicator is lit on the display.

When the traffic information station becomes unreceivable, the [TP] indicator flashes.

When the [∧] or [∨] button is pressed in the FM mode, the unit starts to search for the traffic information station.

If the traffic announcement is received in the mode other than "Radio", the mode is automatically switched to radio mode, and you can listen to the traffic announcement.

When the traffic announcement ends, the unit returns to the previous mode.

When both TP and TA are set to ON:

When the traffic announcement is received, the [TA] indicator is lit on the display.

When the traffic announcement becomes unreceivable, the [TA] indicator flashes.

In the FM mode, the sound is muted. Only when the traffic announcement is received, the mute is cancelled and you can listen to the traffic announcement.

If the station you are currently listening to is not a traffic information station, the unit tunes in traffic information station automatically ([TP-SEEK] is displayed).

If the traffic announcement cannot be received, [NOTHING] is displayed.

If the traffic announcement is received in the mode other than radio, the mode is automatically switched to radio mode, and you can listen to the traffic announcement.

When the traffic announcement ends, the unit returns to the previous mode.

ATTENTION

- When the TP is ON, the unit searches only the traffic information station. Moreover, while receiving the traffic information station, if a poor receiving state continues for a certain time, [TP] or [TA] indicator flashes. When the [∧] or [∨] button is pressed in the FM mode, [TP SEEEK] is displayed and the unit starts to search for the traffic information station.

- While receiving the traffic announcement, you can adjust the volume and the changed volume is stored. The next time you receive the traffic announcement, the volume will be switched to the stored level.

- The RDS function is not available in the AM (MW)/LW mode.

- When the unit receives the EON station, [EON] indicator is lit on the display.
  If the station you are currently listening to does not broadcast the traffic announcement, the unit searches for other traffic announcement broadcasting automatically and switches to that station.

VI

Setting PTY (program type)

With RDS stations, the name of the broadcasting station and program category information are transmitted and can be displayed on the unit's display. It is also possible to select only those RDS stations that are broadcasting the genre selected by using the PTY function.

1 **Press the [PTY] button for more than one second.**

The name of the genre of the RDS station currently being received is displayed, and the [PTY] indicator lights on the display. If the PTY signal cannot be received, "NOPTY" is displayed.

Setting PTY SEEK

1 **Press the [PTY] button for more than one second while the genre name of the RDS station is displayed.**

Repeatedly pressing the [FUNC] button will cycle you through the following options.

> NEWS ➔ SPORTS ➔ TALK ➔ POP ➔ CLASSICS ➔ NEWS···

ATTENTION

- When PTY31 is received, [ALARM] is displayed and the unit receives emergency broadcasting.
- While receiving the emergency broadcasting, you can adjust the volume and the changed volume is stored.

2 **While the genres above (NEWS, SPORTS, TALK, POP and CLASSICS) are displayed for longer than one second, press the [∨] or [∧] button.**

The SEEK function will start within the selected genre.

During the search for RDS stations conducted by the SEEK function, the [PTY] indicator is displayed on the display.

If an RDS station within the selected genre cannot be found, [NOTHING] will be displayed for two seconds, and then the genre name for which the search was conducted will be displayed for four seconds.

How to use the optional remote control

Precautions in use of the remote control

- Be careful when handling the control, especially because it is small and light. Dropping or striking it hard may damage it, wear out the battery or cause a malfunction.
- Keep the remote control free of moisture, dust and water. Do not subject it to shock.
- Do not place the remote control unit where it will get hot, such as on the dashboard or near a heater vent. Allowing the remote control unit to overheat may warp its case or cause other problems.
- Do not operate the remote control unit while driving because doing so could cause an accident.
- When using the remote control, point it toward at the remote control light receptor.
- The light receptor may not operate correctly if it is exposed to bright light such as direct sunlight.
- Be sure to press the [PWR] button on the main unit for more than two seconds to shut it down before leaving the car, or the car battery may be run down. When the main unit is shut down, the remote control will not work.
- Remove the batteries from the remote control unit whenever it is not to be used for a long time.

Cleaning the remote control

- Use a dry cloth to keep the unit clean. If the remote control unit gets extremely dirty, clean it with a cloth moistened with diluted liquid detergent. Do not use alcohol or thinner; these compounds may damage the finish.
- In no event should benzine or thinner be used. These substances will damage the case or finish.

VI

VII
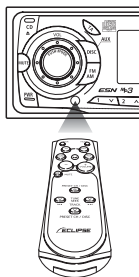
Turning the power on/off

When the power is turned on, the state used when the power was turned off such as CD and tuner playing is restored.

1 **Press the [PWR] button.**

The power turns on or off each time the button is pressed.

📖 ATTENTION

When the main unit is shut down, the remote control will not work.

Adjusting the audio volume

1 **Press the [◄))] or [◄)] button.**

[◄))] button:
Increases the volume.

[◄)] button:
Decreases the volume.

Muting the volume

Press the [MUTE] button to cut the volume or restore it instantly.
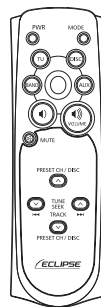
Switching playback modes

1 **Press the [MODE] button.**

Press the button to switch modes in the following sequence:

Tuner ➔ Disc ➔ AUX ➔ Tuner ⋯

📖 ATTENTION

Modes can be switched by pressing the following buttons:
[TU] button:
  The tuner mode is activated.
[DISC] button:
  The disc mode is activated.
[AUX] button:
  The AUX mode is activated.

How to play the tuner

Select the tuner mode first.

Selecting the FM/AM band

1 **Press the [BAND] or [TU] button.**

Each press will switch tuner modes from FM1 ➔ FM2 ➔ FM3 ➔ AM (MW) ➔ LW.

Selecting a station (manually or automatically)

A short press of the button will allow manual station tuning. Pressing for more than one second will start automatic tuning.

1 **Press the [∨TUNE•SEEK∧] button.**

[∧] button:
Tunes to higher frequency stations.

[∨] button:
Tunes to lower frequency stations.

Selecting preset stations

A total of six stations may be selected (preset tuning) out of those already set in memory through the main unit. (Refer to "Manually setting stations into memory" on page 93.)

1 **Press the [∨PRESET CH∧] button.**

[∧] button:
Select the next higher number preset button.

[∨] button:
Select the next lower number preset button.

How to play CDs

Switching disc modes

1 **Press the [DISC] button.**

The disc mode is activated.

2 **Press the [BAND] or [DISC] button.**

When one or two CD changers are connected, press the [BAND] or [DISC] button to change modes from CD player ➔ CD changer 1 ➔ CD changer 2.
The indicator will skip a changer or player that has no discs loaded.

Advancing to the next track or returning to the beginning of the track being played

1 **Press the [I◄◄TRACK►►I] button.**

[►►I] button:
Advances to the next track.

[I◄◄] button:
Returns to the beginning of the track being played.
(Press repeatedly to move to previous tracks.)

📖 ATTENTION

Hold the [►►I] button down to fast forward, or the [I◄◄] button to rewind through the track being played.

Skipping to the next or previous disc

1 **Press the [∨DISC∧] button.**

[∧] button:
Selects the next higher number disc.

[∨] button:
Selects the next lower number disc.

VII

■ 99 ■

How to play MP3

Switching disc modes

1 **Press the [DISC] button.**

The disc mode is activated.

2 **Press the [BAND] or [DISC] button.**

When one or two CD changers are connected, press the [BAND] or [DISC] button to change modes from CD player ➔ CD changer 1 ➔ CD changer 2.

The indicator will skip a changer or player that has no discs loaded.

ATTENTION

- The optional CD changer cannot be used to play MP3 files.
- If normally recorded music data (CDDA) and MP3 music files are mixed, then normally recorded music data will be played.

Advancing to the next file or returning to the beginning of the file being played

1 **Press the [I◄◄TRACK►►I] button.**

[►►I] button:
Advances to the next track (file).

[I◄◄] button:
Returns to the beginning of the track (file) being played. (Press repeatedly to move to previous tracks (files).)

ATTENTION

Hold the [►►I] button down to fast forward, or the [I◄◄] button to rewind through the track being played.

Skipping to the next or previous folder

1 **Press the [∨DISC∧] button.**

[∧] button:
Selects the next folder.

[∨] button:
Selects the next lower folder.

Replacing the battery

⚠ *WARNING*

To prevent accidents, store batteries out of the reach of children. If a child has swallowed one, consult a doctor immediately.

Use two AAA size batteries.

1 **Remove the back cover of the remote control unit by gently pressing and sliding it in the direction indicated by the arrow.**
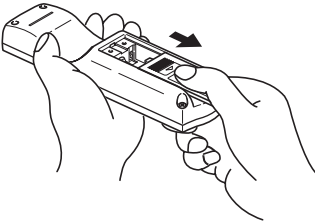
2 **Install the two batteries provided into the compartment as illustrated inside the compartment.**
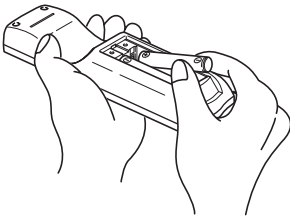
3 **Return the back cover into place by sliding it in the direction indicated by the arrow.**
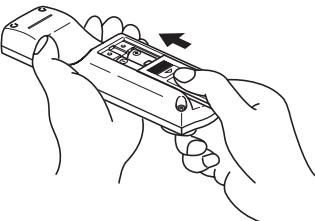
⚠ *CAUTION*

- Be extremely careful not to swallow the battery.

- The battery life is approximately one year. If the remote control unit does not operate correctly or if the button lamp gets dim, replace the batteries.

- Be sure to orient the batteries correctly so that the positive and negative poles match the diagram.

- Do not use one new battery and one old one; use two new batteries.

- Use only two of the same kind of battery.

- If any liquid is seen leaking from the batteries, remove both batteries and dispose of them properly. Thoroughly clean the battery compartment with a dry cloth. Then install new batteries.

VII

ESN security operating procedure
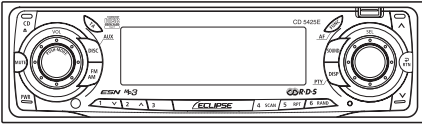
About ESN

This deck incorporates ESN (Eclipse Security Network). The ESN is a security system which disables all deck functions when the power is restored if the deck is stolen from the vehicle. Once the ESN is activated, removing power to the deck or vehicle will activate the security feature. Setting or canceling of the security feature can be done with a "Key CD". It is necessary to register a music CD as the "Key CD" in advance.

How to operate the ESN (Key CD) security

How to program the Key CD

1 **Check that the unit is in standby.**

2 **Press and hold the [FUNC] button, then button [6], and hold both for more than one second.**

A [SEC] message appears, in two seconds it will change to [DISC].

ATTENTION

- If a CD has already been inserted, a [SEC] message appears, and then the front panel opens and the CD is ejected.

- If a security is activated, programming the Key CD is not available.

3 **Press the [CD⏏] button.**

The front panel opens; The CD5425E is now ready for your Key CD in the CD slot.

4 **Insert the CD into the slot.**

A [SEC] message appears, then the Key CD is ejected.

5 **Press the [CD⏏] button.**

The front panel closes.

ATTENTION

- If there is a problem with the inserted CD, an [ERR] message will appear for two seconds and the CD will be ejected. Reinsert the ejected CD.

- If a CD causes the [ERR] message to appear twice in a row, a [CHANGE] message will appear for two seconds. Try another CD.

- Copy Protected CD and MP3 CD-ROM cannot be programmed for Key CD security.

- The Security indicator will flash whenever the vehicle's ignition is switched off.

How to cancel the Key CD

1 **Check that the unit is in standby.**

2 **Press and hold the [FUNC] button, then button [6], and hold both for more than one second.**

A [SEC] message appears, then in two seconds it will change to [DISC].

3 **Press the [CD⏏] button.**

The front panel opens; The CD5425E is now ready for your Key CD in the CD slot.

📖 ATTENTION

If a CD has already been inserted, a [SEC] message appears, and then the front panel opens and the CD is ejected.

4 **Insert your Key CD into the slot.**

A [CANCEL] message appears, then the Key CD is ejected.
The Key CD is cancelled.

📖 ATTENTION

• This process cancels the protection for ESN deck.
• If power to the ESN deck is disconnected, then reconnected, a Key CD will not need to be inserted in order to return the unit to normal operation.
• Inserting a CD other than the Key CD will not cancel the protection. Instead, the display [ERR] for two seconds, then the normal CD playback mode will activate.

5 **Press the [CD⏏] button.**

The front panel closes.

How to change the Key CD

1 **First, cancel the existing Key CD.**

Refer to "How to cancel the Key CD".

2 **Next, program a new Key CD.**

Refer to "How to program the Key CD".

How to resume normal operation (ESN security lock out)

If power is disconnected while ESN security is active (a Key CD was programmed), operation is disabled until power is restored and the unit unlocked. Follow this procedure to resume normal operation.

VIII

1 **When the power is turned on after disconnecting the battery power, a [SEC] message will appear for two seconds. Thereafter, message changes to [DISC] and the press the [CD⏏] button, then the CD5425E is ready to accept your Key CD into the slot.**

2 **Insert your Key CD.**

If the correct CD is inserted, an [OK] message will appear for two seconds and the CD will begin playing.

📖 ATTENTION

- If the incorrect CD is inserted, an [ERR_] ("ERR" and error number) message will appear for two seconds, after which the CD will be ejected.
- If [ERR5] (the 5th time an error has occurred) appears, [HELP] will appear, after which the CD will be ejected. When [HELP] appears, carry out the operations for an ESN security lock out by following the procedure in "What happens if an incorrect CD is inserted?" on page 104.
- You must be use the same CD used for Key CD programming; a duplicate CD may not work properly.

What happens if an incorrect CD is inserted?

1 **After the 5th incorrect attempt, the display reads [HELP] for five seconds.**

After the [HELP] message will appear for five seconds, serial number will appear.

2 **Press the [CD▲] button to close the front panel.**

3 **Press the [FUNC] button, then button [6], and hold them for five seconds.**

After the [SEC] message will appear for two seconds, rolling code (six digit) will appear.

4 **Press the [FUNC] button.**

[DISC] flashes on the display.

You will have five more attempts the to insert correct disc.

5 **Insert the Key CD into the slot.**

If the correct CD is inserted, an [OK] message will appear for two seconds and the CD will be ejected.

📖 ATTENTION

- If an incorrect CD is inserted, an [ERR_] ("ERR" and error number) message will appear for two seconds, after which the CD will be ejected.
- This process cancels the protection for ESN deck.

● *Note* ●

If after 5 tries the correct Key CD is not inserted, the display reads [CALL]; the unit must be returned to Eclipse to be reset. In this case, please contact your Eclipse dealer for assistance.

Your Key CD can be easily forgotten. Write the album name in a reminder note (See page 125).

How to turn the security indicator on/off

Once ESN security is activated, the indicator flashes whenever the vehicle's ignition switch is turned off, warning potential thieves that the unit is protected. However, if do not want this visible deterrent, it may be turned off.

1 **With the unit in standby, press the [FUNC] button, then button [2] and hold both for more than one second.**

2 **[IND. FLASH] or [IND.-----] appears on the display.**

[IND. FLASH] means the security indicator will flash when the vehicle's ignition switch is off, and [IND.-----] means it will not. Repeat the above steps to reactivate the flash mode.

How to read the Electronic Serial Number

1 **Check that the unit is in standby.**

2 **Press and hold the [FUNC] button, then button [4], and hold both for more than one second.**

[ESN] appears on the display, followed by an eight-digit number; this number is your electronic serial number (ESN). You may use this number to identify your Eclipse CD5425E in the event of theft recovery.

VIII

Detaching the front panel

Using the detachable panel

The front panel of the unit can be removed.

By removing this panel when you leave the vehicle, you can prevent the theft of the unit.

How to remove the detachable panel

1 **Turn off the unit power.**

2 **Press the [Release] button.**

The right end of the front panel detaches from the body of the unit.

3 **Remove the front panel.**

Hold the front panel and pull it toward you to remove it.
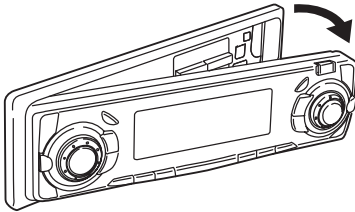
How to fit the detachable panel

1 **Insert the left end of the front panel into the unit.**

Engage the catch at the left end of the front panel with the lock on the unit itself.

2 **Insert the front panel.**

Press the right end of the front panel until it clicks into place.

3 **Press the [PWR] button to turn the power to the unit ON.**
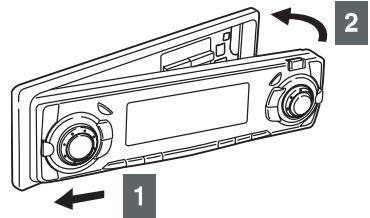
⚠ *CAUTION*

- If you drop the detachable panel or subject it to impact, it may be damaged or malfunction.
- Do not detach or fit the detachable panel while driving since this could cause an accident.
- Store the panel at a location free from humidity, dust, and water.
- Do not leave the detachable panel in locations that are likely to become hot, like the dashboard and surroundings.

How to operate the AUDIO CONTROL

Switching audio control modes

Various audio control modes may be fine-tuned using this procedure.

1 **Press the [AUDIO CONTROL] button for less than one second to select the item to be adjusted.**

Modes will switch in the order shown below each time the button is pressed.

VOL ➜ BASS ➜ MID ➜ TREB ➜ BAL ➜ FAD ➜ NON-F*[1] ➜ SVC*[2] ➜ LOUD ➜ VOL ···

*1: NON-F (non-fader) Output is not affected by the settings of the BASS, MID, TREBLE, loudness function or equalizer.

*2: Setting cannot be made in FM mode.

📖 ATTENTION

Press the [MUTE] button for less than one second to cut the volume or restore it instantly.

IX

X

⚠ *WARNING*

Do not adjust the volume or other controls while driving the vehicle. Do so only while parked in a safe location.

Mode	Function	[AUDIO CONTROL] button	
		Turn to the Right	Turn to the Left
VOL (VOLUME)	Adjusts volume.	Increases the volume.	Decreases the volume.
BASS	AAdjusts bass level. Bass mode can be adjusted for each source (CDP/CDC, FM ,AM(MW) and LW).	Emphasizes low sounds.	Softens low sounds.
MID (MIDDLE)	Adjusts middle level. Mid mode can be adjusted for each source (CDP/CDC, FM , AM(MW) and LW).	Emphasizes medium sounds.	Softens medium sounds.
TREB (TREBLE)	Adjusts treble level. Treble mode can be adjusted for each source (CDP/CDC, FM , AM(MW) and LW).	Emphasizes high sounds.	Softens high sounds.
BAL (BALANCE)	Adjusts left/right speaker balance.	Emphasizes right speakers.	Emphasizes left speakers.
FAD (FADER)	Adjusts front/rear speaker balance.	Emphasizes front speakers.	Emphasizes rear speakers.
NON-F (NON-FADER)	Adjusts non-fader level (for connected sub-woofers, etc.).	Increases level.	Decreases level.

SVC (Source Volume Control)	Adjusts different volume levels for each audio mode. When SVC is set, the volume level can change as shown in the example settings in the table below.	Increases the SVC setting level.	Decreases the SVC setting level.
LOUD	The loudness control may be turned on to emphasize low and high frequencies at low volume levels. Loudness compensates for the apparent weakness of low and high frequencies at low volume by boosting the bass and treble levels.	Turn the loudness control ON/OFF.	

Setting examples:

The volume for the initial FM mode (default value: 40) is used as a reference for storing the differences in volume that have been set for each audio mode.

Audio mode	FM	AM (MW) /LW	CD
Default value (Volume level)	Reference (40)	0 (40)	0 (40)
SVC setting (Volume level)	Reference (40)	SVC setting value +15 (55)	SVC setting value -10 (30)
When volume level in FM mode is adjusted from 40 to 45	45	55 → 60	30 → 35
When volume level in CD mode is adjusted from 35 to 60	45 → 70	60 → 80*	60
When volume level in AM (MW) /LW mode is adjusted from 80 to 20	70 → 5	20	60 → 0*

*:The volume levels can be set to a maximum of 80 and a minimum of 0. If you try to go past the
   maximum or minimum volume level, the level will not change. For the CD changer, SVC
   adjusts the volume using the setting value for the CD player.
   The volume difference can be set within a range of -10 to +20.

ATTENTION

If the battery terminals have been disconnected because of a reason such as vehicle maintenance, the SVC settings will return to their default values. If this happens, you will need to make the settings again.
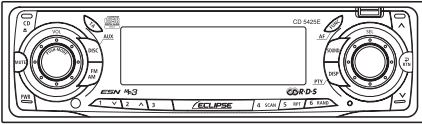
Making changes with Equalizer Mode

Using EQ (equalizer), you can adjust the frequency according to the genre of the music you are listening to or the kind of the musical instruments.

This unit is equipped with three equalizer modes. Furthermore, the set value in the audio control mode can be stored and called as a CUSTOM mode set value.

1 Press the [SOUND] button for less than one second.

Each time the button is pressed, the selection changes in the following order.

DEFEAT(Equalizer OFF)

↓

POWER (Low frequencies emphasized)

↓

SHARP (High frequencies emphasized)

↓

VOCAL (Mid frequencies emphasized)

↓

CUSTOM (Equalizer user preset value)

↓

DEFEAT(Equalizer OFF) ···

⋮

Equalizer user preset memory

The set equalizer value in the audio control mode can be stored.

The stored value can be called by switching the equalizer mode to the CUSTOM mode.

1 Press the [AUDIO CONTROL] button for more than one second.

The set equalizer value is stored in the CUSTOM mode.

X

■ 109 ■

How to operate the Sound Adjustment Mode

About Sound Adjustment Mode

This unit is equipped with various functions to compensate the acoustic characteristics inside the vehicle.

The following adjustments can be made in the sound adjustment mode.

• Crossover (FRONT/REAR/NON-FADER)

• Switching the non fader phase.

Crossover

The frequency band that is stored by audio media such as CDs is a fairly wide range from 20 Hz to 20 kHz, and it is difficult for a single speaker to be able to play back all frequencies in such a wide range.

Because of this, several speakers can be used, with different frequency bands (such as treble, medium and bass) allotted to each speaker so that wide frequency ranges can be played back.

The "Crossover" function is used to allot the frequency ranges that are to be played back by each speaker in accordance with the installed speaker units and the layout of the speakers, in order to obtain the maximum level of performance from the speakers and to provide the most stable frequency characteristics.

The crossover function includes a high-pass filter (HPF) for playing back treble sounds, and a low-pass filter (LPF) for playing back bass sounds. In addition, the HPF and LPF are used in combination in order to play back sounds in the medium range.

fc*: Cutoff frequency
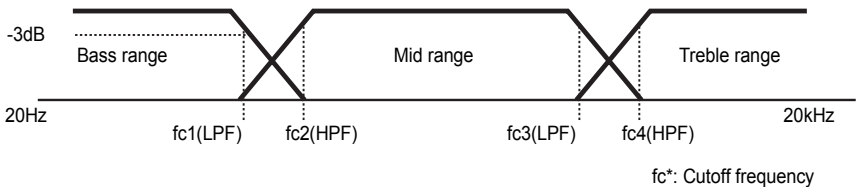
For example, when adjusting the HPF, frequencies that are lower than the specified frequency are progressively dampened, rather than simply not being played back at all. The "slope" adjustment function is the function that is used to adjust these dampening characteristics.

The slope characteristics of a filter are such that with larger slope values (for example 12 dB/oct), the slope becomes steeper, and so the amount of sound mixing in with neighboring bands becomes less so that only the target band is played back. However, it also causes the merging of sound between speakers to become poorer and can result in greater distortion.

• The crossover function is a filter that allocates specified frequency bands.

• A high-pass filter (HPF) is a filter that cuts out frequencies that are lower than the specified frequency (bass range) and allows higher frequencies (treble range) to pass through.

• A low-pass filter (LPF) is a filter that cuts out frequencies that are higher than the specified frequency (treble range) and allows lower frequencies (bass range) to pass through.

• The slope is the signal level at which frequencies that are one octave higher or one octave lower are dampened.
  The larger the slope value, the greater the slope. In addition, when "PASS" is selected, the slope is eliminated (sound does not pass through the filters), so that the crossover function has no effect.

When this deck is in normal mode, it corresponds to basic speaker systems which comprise front speakers, rear speakers, and subwoofer. In such cases, the crossover can be used to apply the HPF to the front and rear speakers and the LPF to the sub-woofer so that the sound from all speakers merges properly. In addition to the 4 speaker system, in pro mode, the adjustments can be made to suit speaker system where the front speaker, rear speaker and non-fader output can be switched between Hi, Mid or Low output and the speakers can be combined according to each range (treble range: tweeter, mid range: mid, bass range: woofer) to provide 3-way playback. In this case, the crossover function can be used to adjust the playback ranges so that the HPF is applied to the treble-range speakers, the HPF and LPF is applied to the Mid-range speakers, and the LPF is applied to the bass-range speakers so that the sound from all speakers merges properly.

Bass range (woofers)

Mid range (Front and rear speakers)

20Hz

20kHz

fc(LPF/HPF)

80Hz, 100Hz
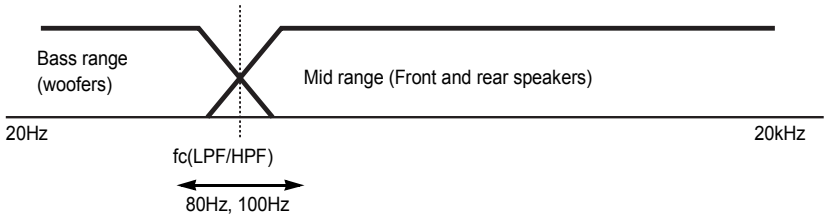
Non-Fader phase

The sounds that are output from woofers include sounds that are in the same frequency ranges that are output from the front and rear speakers, and under the various conditions that can occur inside vehicle compartments, some of these sounds may cancel each other out. This phenomenon can be eliminated by changing the phase of the woofer.

The phase of the woofer can be set to normal timing (in which the output timing between the front and rear speakers and the woofer is the same) or reverse timing (in which the output timing between the front and rear speakers and the woofer is different), depending on the vehicle compartment conditions.

XI
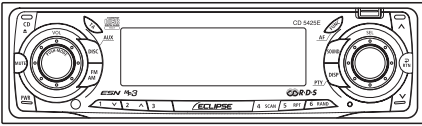
Making changes with Sound Adjustment Mode

1 Press the [SOUND] button more than one second.

Enters sound adjustment mode.

2 Turn the [SEL] button to select a setting item.

When the button is turned, the setting item changes in the following order.

X-OVER FR ➜ X-OVER NF
➜ NON-FADER ➜ X-OVER FR ···

Crossover adjustment (X-Over F/R)

The HPF (high-pass filter) for front and rear speakers can be switched ON and OFF.

1 Turn the [SEL] button to select X-Over F/R.

2 Press the [SEL] button.

The mode will change to crossover f/r setting mode.

3 Turn the [SEL] button to select ON or OFF.

📖 ATTENTION

The set value of the HPF is 100 Hz, 18 db/oct.

4 Press the [SEL] button.

The selected settings will take effect.

5 Press the [RTN] button.

At this time, other adjustments can also be made in sound adjustment mode.

6 Press the [SOUND] or [RTN] button to exit sound adjustment mode.

Crossover adjustment (X-Over NF)

The LPF (low-pass filter) for sub-woofer can be switched ON and OFF.

1 Turn the [SEL] button to select X-Over NF.

2 Press the [SEL] button.

The mode will change to crossover nf setting mode.

3 Turn the [SEL] button to select ON or OFF.

📖 ATTENTION

The set value of the LPF is 80 Hz, 18 db/oct.

4 Press the [SEL] button.

The selected settings will take effect.

5 Press the [RTN] button.

At this time, other adjustments can also be made in sound adjustment mode.

6 Press the [SOUND] or [RTN] button to exit sound adjustment mode.

Non-Fader phase selection (Non-F Phase)

The merging of sound between the front and rear speakers and the woofer can be improved by selecting the phase.
Switch to a phase which lets the speakers combine without any disharmony.

1 **Turn the [SEL] button to select Non-F Phase.**

2 **Press the [SEL] button.**

The mode will change to phase selection mode.

3 **Turn the [SEL] button to select NORMAL or REVERSE.**

NORMAL:
 Normal phase

REVERSE:
 Reverse phase

4 **Press the [SEL] button.**

The selected settings will take effect.

5 **Press the [RTN] button.**

At this time, other adjustments can also be made in sound adjustment mode.

6 **Press the [SOUND] or [RTN] button to exit sound adjustment mode.**

XI

Setting the contrast of the display

In accordance with your viewing angle, you can adjust the contrast of the display.

1 **Press the [DISP] button.**

Enters contrast adjustment mode.

2 **Turn the [SEL] button to adjust the CONTRAST.**

The contrast can be adjusted in the range of -5 to +5.

Turn to the right:
  Increases level.

Turn to the left:
  Decreases level.

3 **Press the [SEL] button.**

The selected settings will take effect.

4 **Press the [DISP] or [RTN] button to exit display adjustment mode.**

Making changes with Function Mode
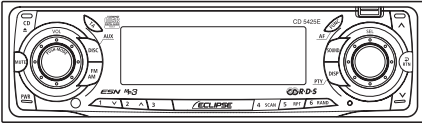
A variety of settings can be changed.

1 **Press the [FUNC] button for less than one second.**

The function mode is activated.

ATTENTION

If you press the [FUNC] button during function mode, the adjustment mode is cancelled and the mode returns to normal music mode.

2 **Turn the [SEL] button in either direction to display setting items for selection.**

When the button is turned, the setting item changes in the following order.

Guide Tone ➔ Clock ON/OFF ➔ Clock Adjust ➔ AUX Sensitivity*[1]

➔ Guide Tone ⋯

*1: (See page 119) for details on AUX Sensitivity.

Disabling the guide tone feature (for button operation)

The receiver is set at the factory to emit a beep tone in response to button operation. The guide tone feature may be disabled in the following procedure:

1 **Turn the [SEL] button to select Guide Tone.**

2 **Press the [SEL] button.**

The guide tone mode will be switched ON/OFF.

3 **Turn the [SEL] button to select ON or OFF.**

4 **Press the [SEL] button.**

The selected settings will take effect.

5 **Press the [RTN] button.**

At this time, other adjustments can also be made in function mode.

6 **Press the [FUNC] or [RTN] button to exit function mode.**

XII

XIII

Clock display on/off

Switches the clock display to ON/OFF.

1 **Turn the [SEL] button to select Clock.**

2 **Press the [SEL] button.**

The clock display ON/OFF mode is activated.

3 **Turn the [SEL] button to select ON or OFF.**
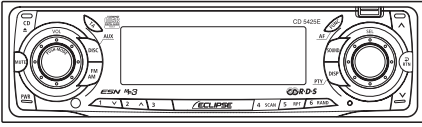
4 **Press the [SEL] button.**

The selected settings will take effect.

5 **Press the [RTN] button.**

At this time, other adjustments can also be made in function mode.

6 **Press the [FUNC] or [RTN] button to exit function mode.**

Setting the time

This receiver uses the 12-hour display notation.

1 **Turn the [SEL] button to select Clock Adjust.**

2 **Press the [SEL] button.**

The clock adjustment mode is activated.

3 **Press the [SEL] button to display the item to be selected for adjustment.**

Hours or minutes will be switched each time the button is pressed.

4 **Turn the [SEL] button.**

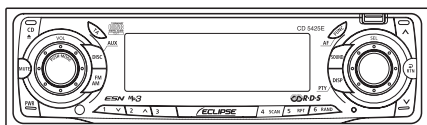Turn to the right:
 Turns the time forward.

Turn to the left:
 Turns the time back.

5 **Press the [RTN] button.**

At this time, other adjustments can also be made in function mode.

6 **Press the [FUNC] or [RTN] button to exit function mode.**

How to operate the receiver with an optional CD changer connected

This section covers the operation of an optional CD changer that is connected to the receiver.
To switch from another mode, press the [DISC] button for less than one second.

Listening to a CD

1 **Press the [DISC] button for less than one second.**

Each press of the button switches the mode from CD player ➜ CD Changer 1 ➜ CD Changer 2 ➜ CD player.
A changer or player with no discs loaded will be skipped.

Advancing to the next track or returning to the beginning of the track being played

1 **Turn the [SEL] button to the left or right.**

Turn to the right:Advances to the next track.
Turn to the left:Returns to the beginning of the track being played.
(Repeat turning for previous tracks.)

Fast Forward/Rewind

Fast forward or rewind the song currently being played.

1 **Press and hold the [∧] or [∨] button.**

[∧] button:Fast forward.
[∨] button:Rewind.

Playing the beginning of tracks (SCAN)

1 **Press the [4 SCAN] button.**

Pressing the button for less than one second causes the changer to move up to the next track and play it for 10 seconds, then move up to the next track and play it for 10 seconds, and so on, on one CD, until the button is pressed again.
Press the button for longer than a second to play the first 10 seconds of the first track of every CD loaded.

ATTENTION

• To continue playing a desired track, press the button again to stop scanning.
• After the entire disc is scanned once, ordinary playback starts from the point where scanning started.

Repeating the same track (REPEAT)

1 **Press the [5 RPT] button.**

Pressing on the button for less than one second causes the changer to repeat the track currently being played, until the button is pressed again.
Press the button for longer than a second to repeat all tracks on the CD being played.

XIII

XIV

Playing tracks in random order (RANDOM)

1 **Press the [6 RAND] button.**

Pressing on the button for less than one second causes the changer to play the tracks on the currently playing CD in random order, until the button is pressed again.

Press the button for longer than a second to play tracks from all of CDs loaded in the currently selected changer, in random order.

📖 ATTENTION

- During random playback, press the [5 RPT] button to repeat the track being played. To cancel repeat play (go back to random play), press the [5 RPT] button again.

  During playback of a particular track: The track being played is played repeatedly.

  While searching: The following track is played repeatedly.

- Occasionally the same track happens to be played (selected) two or more times in a row, but it is not a sign of a problem.

- When any of the functions - "Playing the beginning of tracks", "Repeating the same track" and "Playing tracks in random order" - is selected, a message such as [SCAN], [ALL SCAN], [REPEAT], [ALL REPEAT], [RANDOM] or [ALL RANDOM] appears on the display to verify the current function.

- Random play is not cancelled even if a magazine is ejected.

Skipping to the next or previous CD

1 **Press button [1 ∨] or [2 ∧].**

Button [1 ∨]:
Selects the next lower number disc.

Button [2 ∧]:
Selects the next higher number disc.

Specifying a CD to play

A CD of your choice is directly selectable out of the loaded discs.

1 **Press the [SEL] button for less than one second.**

2 **Press a button from [1] to [6].**

Buttons	1	2	3	4	5	6
CD	1	2	3	4	5	6
	7	8	9	10	11	12

To select a CD from nos. 7 to 12, press the desired button considerably longer.

Others
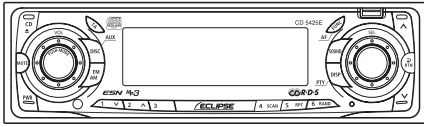
Connecting portable audio players to the AUX jack

Use a commonly available accessory cord. With a jack for AUX cord (sold separately), portable audio players and other external inputs can be connected to the system.

When the AUX cord is connected to the jack, CD changer cannot be connected to the system.

1 **Turn on the portable audio player and start its play function.**

2 **Switch to AUX mode by pressing the [DISC] button for more than one second.**

Activation of the AUX mode will light the "AUX" indicator and channel audio player output to the system speakers.

ATTENTION

• While the AUX mode is activated, actions such as turning off the audio player or pulling out the connection cord may cause noise spikes that can damage the system speakers. Be sure to avoid this possibility by turning off system power or switching from AUX mode to another mode before shutting off or disconnecting the portable audio player.

• Audio output levels will differ for the various devices that can be connected by this method.

Carefully adjust volume until the output level of the connected player is known.

• Before using a portable audio player in a vehicle, read the player's operation manual carefully and confirm problem-free operation in the vehicle before proceeding.

XIV

XV

Changing auxiliary input sensitivity

The sensitivity of the auxiliary mode can be changed.

1 **Press the [FUNC] button for less than one second.**

The function mode is activated.

2 **Turn the [SEL] button to select AUX Sensitivity.**

3 **Press the [SEL] button.**

The AUX sensitivity mode is activated.

4 **Turn the [SEL] button to select the sensitivity mode.**

Turning the button allows you to toggle through sensitivity modes as follows:

Low ➔ Mid-Low ➔ Mid ➔ Hi
➔ Low···

ATTENTION

Input sensitivity modes are roughly as follows:

Low	1 Vrms
Mid-Low	480 mVrms
Mid	240 mVrms
Hi	120 mVrms

5 **Press the [SEL] button.**

The selected settings will take effect.

6 **Press the [RTN] button.**

At this time, other adjustments can also be mode in function mode.

7 **Press the [FUNC] or [RTN] button to exit function mode.**

Telephone muting function

When you receive an incoming phone call, the volume of the audio function is reduced to zero. This function is effective when the car telephone is connected to the unit with a cable.

Upon receiving a telephone call, the sounding muting function comes ON.

When the mute function is ON, "MUTE" is displayed.
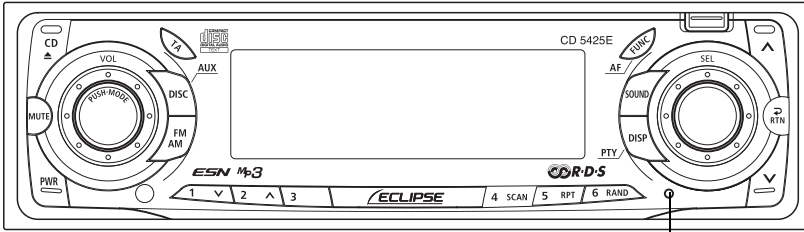
When the telephone call ends, the mute function goes OFF and the volume setting in use immediately before the phone call was received is restored.

⚠ *WARNING*

While driving a vehicle, use a hands-free kit for phone calls to avoid dangers.

If you have a question:

[RESET] button

First check the item mentioned below before attempting to troubleshoot problems.

⚠ *CAUTION*

If a problem occurs, for instance when the unit does not respond to any button presses, or the display doesn't work correctly, press the [RESET] button using a paper clip or similar item.

Pressing the [RESET] button will delete all the entries from memory. The settings will return to those made at the factory prior to shipment.

Displayed information (for troubleshooting)

The information listed in the chart below is displayed to show the status of the CD and CD changer. Refer to the chart for the appropriate action.

Information Contents		Explanation and remedial action to take
INFO 2	NO DISC LOADED IN THE MAGAZINE	There is no disc in the magazine or player. Load a disc in the magazine. (Load a music disc.)
INFO 3	DISCS ARE DIRTY OR DAMAGED	The loaded disc is dirty or upside down. Check it for proper orientation and verify it is clean.
INFO 5	CD PLAYER AND CD CHANGER FAILS MECHANICALLY	• The CD player and CD changer is inoperative for some reason. Go through the magazine removal procedure. • If a magazine fails to eject, have your dealer fix problem.
INFO 6	WHEN THE CD PLAYER AND CD CHANGER INTERNAL TEMPERATURE IS HIGH (TO PROTECT PICKUP UNIT)	• The temperature in the CD player and CD changer is too high for operation. Wait till it cools down. • Resume playing after the "High temperature sensed and CD stopped" display disappears. If the CD still cannot play, have your dealer repair it.
INFO 7	AN INTERNAL POWER SUPPLY FAILURE IS OCCURRING	• Turn the ACC off once before turning it on once again to resume the operation. • If this condition persists, please contact your dealer.
LOAD		CD changer is in the process of verifying the presence of CDs after a magazine has been inserted into the CD changer.

■ 121 ■

Mode	Problem	Causes	Remedial action to take	Refer to page
Common to all	Dead or weak sound	Is the volume control up sufficiently?	Turn up the volume control.	107
		Is the muting function in effect (MUTE)?	Cancel the muting (MUTE) function.	107
		Is the fader or balance control set far to one side?	Readjust the fader and balance controls to more normal positions.	107
		Other probable causes include broken audio-signal wiring or a faulty speaker.	Have your dealer check the problem.	—
	Power does not turn on.	Are there too electrical items installed, causing a lack of power?	Have your dealer check the problem.	—
		Other probable causes include a run-down car battery, broken power or interconnection wiring.	Have your dealer check the problem.	—
	Frequencies or titles set in memory are deleted.	Has the car battery been disconnected for repair or checked out?	Reenter them into memory.	92, 93
		Are there too electrical items installed and causing lack of available power?	Have your dealer check the problem.	—
		Other probable causes include run-down car battery, broken power or interconnection wiring.	Have your dealer check the problem.	—
	No guide tone sounds.	Is the guide tone disabled?	Enable the guide tone.	115
	The remote control does not work.	Is the battery low?	Replace battery.	101
		Is the battery installed in reverse polarity?	Reinstall the battery in the correct polarity.	101
		Is direct sunlight hitting the remote control light receptor?	Use the remote control close to the receptor.	—
		Other probable causes include a malfunctioning remote control.	Have your dealer check the problem.	—
CD	The disc cannot be inserted. The disc is ejected as soon as it is inserted. Or, the disc cannot be ejected. The disc cannot be changed.	Is an extra label or seal applied to the disc?	Do not apply labels or seals to the disc.	79
		Are there rough edges, deformations or damaged areas on the disc?	Try inserting another disc. Remove any burrs. Do not use a deformed or damaged disc.	79
	Sound skips around. Sound is intermittent. Sound is bad in quality.	Is the disc damaged? (scratched, warped, etc.)	Try another disc. Do not play a damaged disc.	79
		Is the disc clean?	Clean the disc.	80
		Is the player mounted at a proper angle? Is the player mounted loosely?	Have your dealer check it out.	—
		Are you driving over a rough surface?	Avoid playback while driving over rough surfaces.	74
	The disc cannot be ejected.	If unknown	Press the [CD ⏏] button for longer than five seconds with the front panel opened.	—

Mode	Problem	Causes	Remedial action to take	Refer to page
Tuner	Receives no stations, or receives static noise.	Is the antenna retracted?	Extend the antenna.	—
		Is the tuner correctly tuned to a station?	Tune to a station.	92
		Are you driving outside the service area of your preset stations?	Tune to a local station. (Please note, there may be no local stations servicing the area where you are currently driving.)	92
		Are you operating other equipment such as computer, or a mobile phone, in your vehicle at the same time as your receiver?	Avoid operating such equipment while using the receiver.	—
		Other problems may include a loose or disconnected antenna cable, a bad antenna cable or a bad wiring.	Have your authorised Eclipse retailer check the problem.	—

XVI

Specifications

<GENERAL>

Power Output	MOSFET 50W×4
Line Output Level/Impedance	5V (0dB)/55Ω
Power Supply	14.4V DC (11-16V)
Current Drain	3A
Dimensions (W x H x D)	178 x 50 x 155mm
Tone Control	BASS: ±12db at 80Hz
	MID: ±12db at 630Hz
	Treble: ±12db at 10kHz
Loudness	+10dB at 100Hz/+ 6.5dB at 10kHz

<FM TUNER>

Frequency Range	87.5~108.0 MHz (50kHz step)
Usable Sensitivity	13dBf
50dB Quieting Sensitivity	14dBf
Frequency Response	30~15,000Hz
Stereo Separation	38dB (1kHz)

<LW TUNER>

Frequency Range (LW)	153~279kHz (3kHz step)
Usable Sensitivity	30μV

<MW TUNER>

Frequency Range (MW)	522~1611kHz (9kHz step)
Usable Sensitivity	20μV

<CD SECTION>

Frequency Response	20Hz~20,000Hz
Total Harmonic Distortion	0.008%
Wow & Flutter	Below measurable limits
S/N Ratio	95dB
Dynamic Range	95dB
Channel Separation	80dB

IMPORTANT

RECORD YOUR "KEY CD" HERE…

_____

_____

_____

STORE YOUR "KEY CD" ALONG WITH YOUR OWNER'S MANUAL.

KUNDENHINWEIS

Bitte bewahren Sie dieses Handbuch auf und tragen Sie die Seriennummer Ihres CD5425E zur Identifikation ein.
Die Seriennummer ist auf dem Gehäuse mittels eines Etiketts oder Aufdrucks angebracht.

Seriennummer

CUSTOMER NOTICE

Please retain this booklet and write in the serial number of your CD5425E for identification.
The serial number is labeled or stamped on the chassis.

Serial No.

AVISO AL CONSUMIDOR

Rogamos conserve este manual y anote en él el número de serie de su CD5425E para su posterior identificación.
Dicho número de serie aparece en una etiqueta o bien estampado sobre el equipo.

Núm. de serie

REMARQUE

Veuillez conserver ce manuel et y inscrire le numéro de série de votre CD5425E.
Ce numéro est collé ou estampillé sur le châssis.

N° de série

AVVISO DEL CLIENTE

Conservare questo opuscolo e scriverci il numero di serie del CD5425E.
Il numero di serie viene incollato o marcato sul chassis.

N° di serie

MEDEDELING AAN DE KLANT

Berg dit boekje a.u.b. goed op en noteer het serienummer van uw CD5425E erin voor identificatie.
Het serienummer staat op een sticker of is op de behuizing gestempeld.

Serienummer

www.eclipse-web.com / eu /

090002-29080700 0508K (F)