Warnings and caution signs, illustrated below, are posted throughout this manual as well as on the AVN6000. They show safe and correct ways to handle the product to prevent personal injury to you and others and avoid damage to property.Before reading through the manual, take time to read through and learn the important information listed in this section.

Cautions for use

* The illustrations of screens shown in this manual may differ from the actual screens of this product.

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

The symbol shown below indicates that you should know about the information in order to carefully follow it or you should remember the information for its helpfulness.

| 📖 ATTENTION | This ATTENTION sign indicates helpful information to remember and know. |

- Please read all materials such as manuals and warranties that have come with the product.
- Eclipse will not be responsible for unsatisfactory product performance due to failure to follow these instructions.
- Changes to product specifications may result in differences between content of the manual and features of the product.

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How to operate the DVD player

How to operate the VTR

How to operate the DUAL PLAY

How to use the steering wheel switch

How to use an optional remote control

For reference

The Index by Topic simplifies searches for explanations about individual features. When confused by an operation, use the Index by Topic to search for information about the operation.

How to use this manual

Section title

A title is assigned for each section.

Item title

A number and title is assigned for each item.

●asic operation

Adjusting sound quality

Operation title

A title is assigned for each operation.

Setting DSP (acoustics)

The DSP function reproduces the sensation of various factory set performance environments by adding reverberation to the music being played.

DSP mode setting

1 Touching the DSP touch switch brings up the acoustics mode screen as shown.

• After making settings, touch BACK . The acoustics mode adjustments will be saved and the system will return to the previous operation screen.

Operation screen

A screen showing the operation will appear.

Touch switch	DSP Environment	Touch switch	DSP Environment
CONCERT	Concert hall	CLUB	Disco, Club
LIVE	Live performance arena	THEATER	Movie theater
CATHEDRAL	Church with echo	OFF	DSP OFF

Detailed operation title

A title is assigned for each detailed operation.

Adjusting, saving DSP (acoustics)

The factory set DSP (acoustics) level for each mode can be adjusted to preference and saved.

1 Touch ▲ or ▼ at the right of the screen while in the acoustics mode to be adjusted.

• There are five + and five - adjustment levels available.

Operation procedure

Describes the operation.
Proceed with the operation as per the numerical order.

2 Touch the switch for the acoustics mode that has been adjusted until a beep is heard.

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10

Resetting DSP (acoustics) levels

Default settings for the currently adjusted and saved DSP (acoustics) level can be reset.

1 Touch OFF until a beep is heard.

- The accoustic level will be returned to default value (the default value is "0").

Basic operation

ATTENTION | When adjusting the level for the currently selected DSP (acoustics) mode, the level will not be saved for other acoustics modes.

Section heading

Only the section heading will appear.

Attention

Additional points regarding the operations are given here.

Go to the next page

The operation procedures are continued on the next page.

The description shown above is for explanation, and therefore it may differ from the actual one on the same page.

11

Features

DVD player with sharp video and dynamic sound (Page 76)

Plays DVD Video recorded with high quality images and sound.

(DVD media is able to record a movie with high quality video and digital sound that exceeds the quality of CD media.)

The MP3/WMA player that can play a disc holding many music tracks equivalent to several albums (Page 54)

The MP3 compression technology that can compress the music data by a factor of 10.

The CD-R/RW discs holding MP3/WMA data can be played with this unit. Also, WMA data which provides higher compression rate than MP3 can be played.

DSP effects for simulating acoustics of various performance environments (Page 24)

Provides ability to simulate the sensation of various performance environments for matching to the genre and source of a song.

Selection and display of favorite wallpaper (screen backgrounds) (Page 37)

Wallpaper of your choice can be switched and displayed for use as the background of the information screen and audio playback screens.

The screen from a navigation unit can also be linked and selected.

● Setting wallpaper for the information screen and audio operations screen

Radio tuner for receiving various broadcasts

• **AM/FM tuner (Page 44)**

Enables reception of analog AM/FM radio broadcasts.

● AM radio operation screen

Features

System additions

- **CD changer (Page 66)**

  A CD changer enables non-stop playing of multiple discs, for convenience at times such as taking a long drive.

  It is easy to search for and play a song from among the discs on a changer.
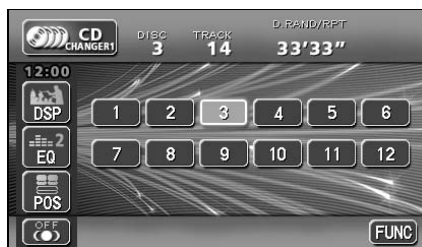
- **iPod (Page 70)**

  When an optional iPod interface adaptor (iPC-106) is connected to this main unit, it is possible to operate the iPod® with this main unit and to display information relevant to it on the screen of this main unit, so you can listen to the songs stored in the iPod.

- **VTR (Page 100)**

  Connecting a VTR deck enables watching of video tapes.

Easy-access audio controls on the steering wheel (Page 116)

You can select the radio channel and perform CD, MP3 and DVD operations using the easy-access switches on the steering wheel. (This function is only available on vehicles fitted with steering wheel switches.)

Before using the main unit

⚠
Caution

- Be very careful and pay full attention to safety when operating the audio controls while driving, otherwise accidents may occur. Also be sure to set volume so that you can still adequately hear sounds outside the vehicle. Improper use can contribute to a traffic accident.
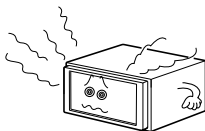
- Never continue to use the system if it is malfunctioning in any way. If smoke, abnormal noises or abnormal odors are noticed, turn off the power immediately.
Immediately turn off audio in such situations.
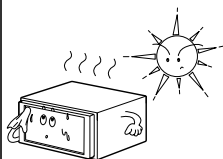
- Exercise caution as to the temperature inside the vehicle. The temperature inside the vehicle can increase during hot weather. Wait for the temperature inside the vehicle to drop before using the unit.
Damage could result.
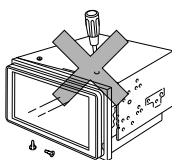
- Do not disassemble or modify the main unit.
The main unit has a precisely designed structure, so consult your retailer in the event of any unsatisfactory performance.

Before using the main unit

⚠ **Caution**
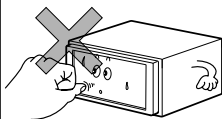
• Do not apply excessive force to the monitor.
Damage could result.
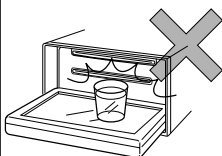
• Do not place items such as cups or cans on top of the monitor, and do not leave the monitor tilted down when not in use.
Damage could result.
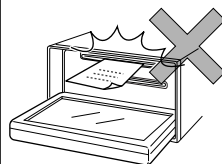
• Do not insert any objects other than discs into the disc slot.
Damage could result.
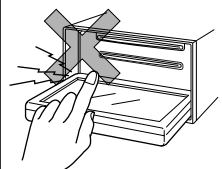
• Be careful not to get fingers or other objects behind monitor when it is being retracted into place.
Interference can cause an injury or damage the main unit.
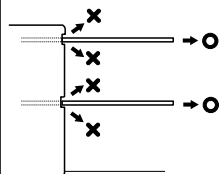
• When removing a disc from the main unit, remove it in the horizontally level direction.
Do not pull them up forcibly or press down on them strongly while removing them.
Improper removal can scratch the disc, cause the main unit to make noise or result in other damage.

About discs

📖 **ATTENTION**	• Water droplets can form on the inside of the main unit during cold or rainy weather in the same way car windows can fog up. (This is condensation.) When this happens, the audio can jump and playback can stop, so ventilate or dehumidify the vehicle for a short time before operating the equipment. • To safeguard the components of the player, the unit will automatically stop when a malfunction occurs. The player will not operate even when messages displayed on the screen are followed, consult with your equipment retailer because it is possible that the unit has been damaged. • It is possible that the sound will skip if the vehicle experiences violent motion on rough roads.

About playable discs

• An audio disc or DVD video disc bearing one of the marks below can be played. When using DVD-R/RW (DVD-Recordable/ReWritable) and DVD+R/RW (DVD+Recordable/ReWritable) discs, note that only those whose contents were recorded in the video mode can be played. Discs whose contents were recorded in the video recording (VR) mode cannot be played.

COMPACT disc DIGITAL AUDIO	COMPACT disc DIGITAL AUDIO TEXT	COMPACT disc Recordable	COMPACT disc ReWritable	DVD VIDEO	DVD VIDEO ™

• Discs that are compatible with Dolby Digital and bear the indication below can be used.

▷◁ DOLBY DIGITAL

Manufactured under license from Dolby Laboratories, Inc. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

• It is possible that a CD-R (CD-Recordable) or CD-RW (CD-ReWritable) disc will not play on the main unit due to the circumstances of the recording, special disc characteristics, scratches, dirt or deterioration caused by long storage in the vehicle. In addition, a CD-R or CD-RW disc written with CD-R, CD-RW or UDF format that has not been finalised will not play on the main unit.
• It is possible that a DVD-R/RW (DVD-Recordable/ReWritable) or DVD+R/RW (DVD+Recordable/ReWritable) disc will not play on the main unit due to the circumstances of the recording, special disc characteristics, scratches, dirt or deterioration caused by long storage in the vehicle. DVD-R/RW or DVD+R/RW discs that have not been finalised will not play on the main unit. It may not be possible to play a disc that has been recorded on a personal computer, depending on the application setting and the environment.
• The CD-TEXT function can be used only with the CD-TEXT-compatible compact discs available on the market. If it is used with CD-R or CD-RW discs, characters may not be displayed normally.
• Do not use discs with transparent or semi-transparent portions within the recording area, or C-thru discs, since they may not be accepted and ejected properly and may not play properly.

Before using the main unit

ATTENTION

About handling discs
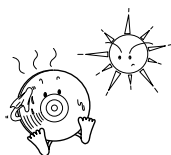
• Be sure to store discs in their cases and keep them out of direct sunlight. Discs can warp and become unusable.

• Do not apply paper-based tape to either the recording side or label side of a disc. Damage could result.

• Do not use discs on which there are cracks or large warps. Damage could result.

• Do not touch the recorded side of a disc when handling it. (This is the side with the rainbow-coloured reflection.) The disc may become dirty and that could cause the sound to skip.

• Using a disc that has become dirty can scratch the disc and cause the sound to skip. Use a commercially available compact disc cleaner to clean a CD, wiping lightly from the centre to the edge.

About new discs

Rough Edges
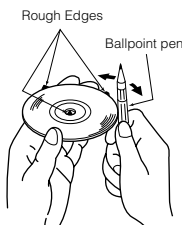
Ballpoint pen

• 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. Flakes from the rough edges may stick to the recorded surface and interfere with playback.

ATTENTION

About rental discs

Cellophane tape

Recorded surface
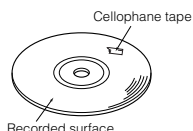
- Do not use CD discs with attached cellophane tape, rental CD discs with glue protruding from labels or discs with the residue of peeled adhesives. Using discs with those conditions can prevent the player from properly opening and closing as well as cause other damage.

About specially shaped discs
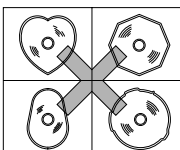
- Specially-shaped or octagonal CDs, like heart-shaped cannot be played. Do not attempt to play them, even with an adapter, since they may damage the player.
- Please do not use a commercially available lens cleaner because it may cause damage to the pickup of the player.

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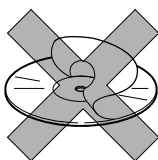
- Do not use accessories (stabilisers, protective seals, laser lens cleaners, etc.) sold for "improving sound performance" or "protecting CDs." The changes in CD thickness or outside dimensions made by these accessories may cause problems in the player.

CD ring
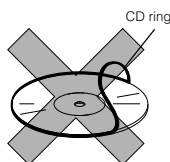
- Please be sure NOT to attach any ring-shape protector (or other accessory) to your discs. Those protectors are commercially available and said to protect discs and to improve sound quality (and antivibration effect), but they can do more harm than good in regular uses. The most common problems are Insert/Eject related problems and "No playback" problems due to the protector ring that may have come off in the disc mechanism.

About the LCD panel

ATTENTION

- The LCD panel can appear to be white or black when seen from certain angles.
- The screen will be difficult to read when external light such as sunlight falls on the display.

Switching mode

The main unit can be used when the vehicle's ignition switch is on or in the ACC position.

• The main unit supports use of a remote control. The optional remote control is sold separately and can be purchased at your local retailer. Refer to page 120 for instructions on operation of the remote control.

Switching the mode

1 Press **(SOURCE) MENU** .

  • The AUDIO MENU screen will be displayed.

2 Touch **FM** .

  • The various audio modes can be selected by touching the corresponding touch switches.
  • When the navigation screen is being displayed before pressing

    (SOURCE) MENU , the selected mode will be displayed on-screen over the background.
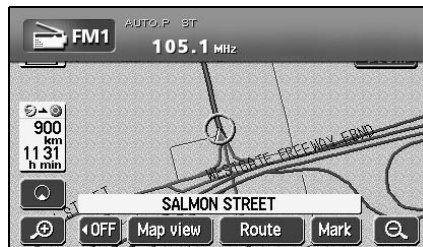
On-screen display

Displaying operation screen

1 Press **CONT** .

Operation screen of each mode

The operation screen for each mode will appear as shown below.

● AM radio operation screen

● FM radio operation screen
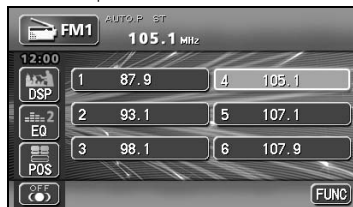
● CD player operation screen

● MP3/WMA player operation screen

● DVD player operation screen

● CD changer operation screen (optional)

● VTR operation screen (optional)

● iPod operation screen (optional)

When the operation screen for DVD or video (VTR) has not been operated for 6 seconds or more, the operation screen will automatically be cancelled.

Basic operation

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Adjusting the volume

Adjusting main volume

1 Press the VOLUME switch.

Pressing ✛ will increase volume.

Pressing ━ will decrease volume.

• Each press of the switch will change the volume by two steps. When the volume reaches 50 or higher, the switch will change the volume by one step. Holding the switch will continue to change the volume.

VOLUME switch
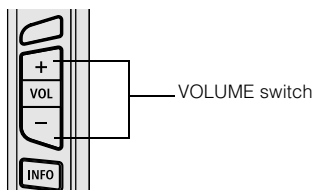
Adjusting sound quality

To adjust sound quality, touch the DSP, EQ or POS switch while the operation screen for a mode is displayed. Adjustments made in any mode will be saved and applied to all modes.

DSP

EQ

POS
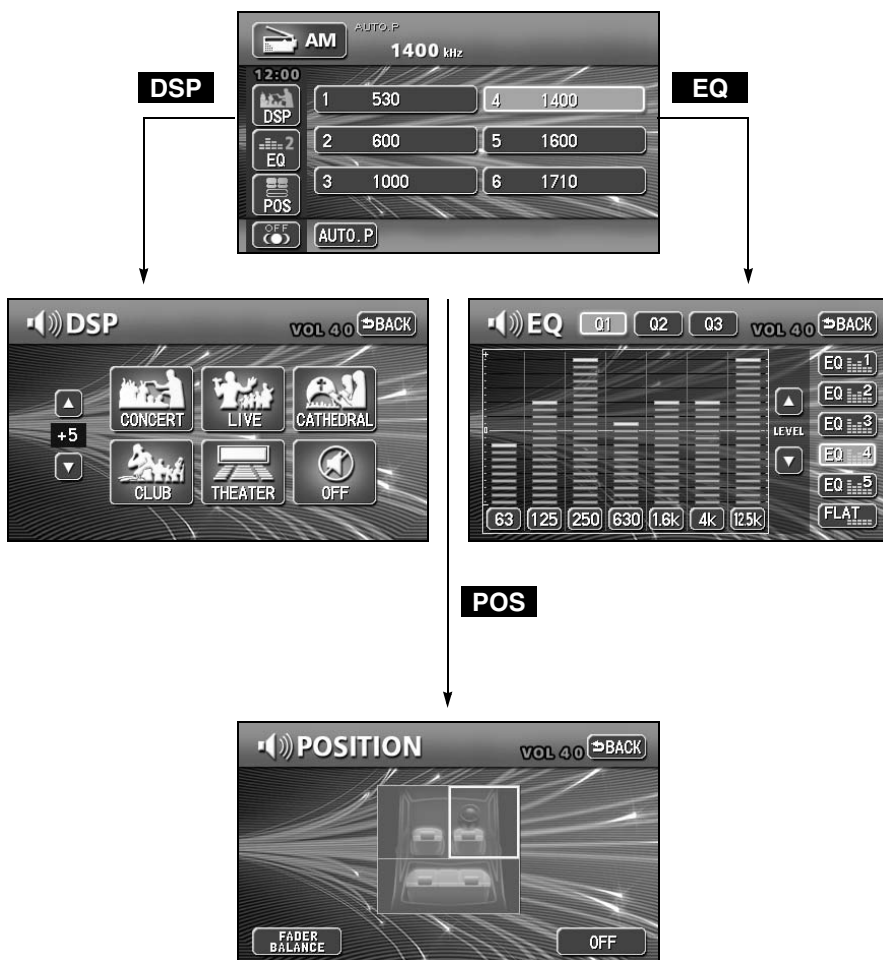
		In the DVD mode, display the sound quality adjustment switches by touching
ATTENTION		NEXT → from the operation modes, and then **SET**. In the VTR mode display them either by touching **SET**.

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Adjusting sound quality

Setting DSP (acoustics)

The DSP function reproduces the sensation of various factory set performance environments by adding reverberation to the music being played.

DSP mode setting

1 Touching the DSP touch switch brings up the acoustics mode screen as shown.

- After making settings, touch **BACK**. The acoustics mode adjustments will be saved and the system will return to the previous operation screen.

Touch switch	DSP Environment	Touch switch	DSP Environment
CONCERT	Concert hall	**CLUB**	Disco, Club
LIVE	Live performance arena	**THEATER**	Movie theater
CATHEDRAL	Church with echo	**OFF**	DSP OFF

Adjusting, saving DSP (acoustics)

The factory set DSP (acoustics) level for each mode can be adjusted to preference and saved.

1 Touch ▲ or ▼ at the right of the screen while in the acoustics mode to be adjusted.

- There are five + and five - adjustment levels available.

2 Touch the switch for the acoustics mode that has been adjusted until a beep is heard.
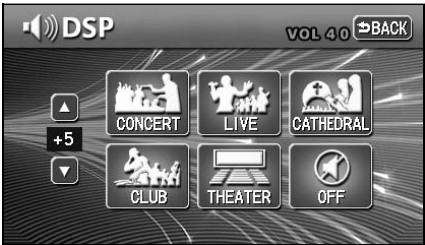
Resetting DSP (acoustics) levels

Default settings for the currently adjusted and saved DSP (acoustics) level can be reset.

1 Touch **OFF** until a beep is heard.

• The accoustic level will be returned to default value (the default value is "0").

ATTENTION	When adjusting the level for the currently selected DSP (acoustics) mode, the level will not be saved for other acoustics modes.

Adjusting sound quality

Adjusting EQ (equaliser)

Adjusts sound quality to preferred characteristics according to the music genre and audio source.

Adjusting/saving EQ

The sound quality can be adjusted according to music genre and then stored.This product has a 7-band parametric equaliser which can adjust median frequency, frequency level, and Q curve (bandwidth).

1 Touch the frequency of each band to select the frequency (median frequency) you want to adjust.

 • Each time the switch of each band is touched, the median frequency will be switched in the order shown below.
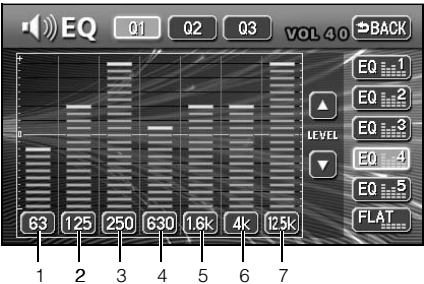
Band	Median frequency (Hz)
1	63 → 80 → 100
2	125 → 160 → 200
3	250 → 315 → 400 → 500
4	630 → 800 → 1k → 1.25k
5	1.6k → 2k → 2.5k → 3.15k
6	4k → 5k → 6.3k → 8k
7	10k → 12.5k → 16k

2 Touch the desired frequency level.

 • To make fine adjustments, touch ▲ or ▼.

26
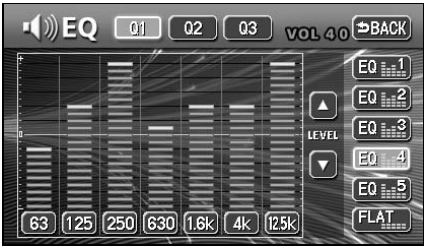
3 Touch **Q1** , **Q2** , or **Q3** to select a Q curve.

- The Q curve patterns set the median frequency bandwidth as follows:
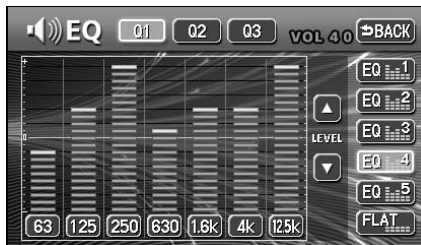
Switch	Q curve pattern
Q1	Wide
Q2	Normal
Q3	Narrow

4 Repeat steps **1** through **3** to change the setting for each band.

- It is not possible to set more than one band in the same channel to the same median frequency.

5 Touch the switch you want to use to save (**EQ1** to **EQ5**) until you hear a beep.

- Save the PEQ settings for future use.

- Touch **BACK** after making settings. The PEQ mode adjustment will be saved and the system will return to the previous operation screen.

ATTENTION
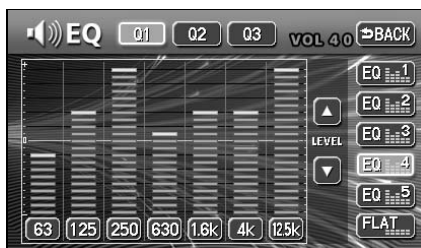
- If you touch and hold **▲** or **▼** during fine adjustment, the frequency level will continue to adjust automatically until it reaches the centre value (0). Touch **▲** or **▼** again to continue adjustment.

- Touch **FLAT** to return to the centre value (0).

Adjusting sound quality

Selecting a EQ pattern from memory

1 Touch a switch from **EQ1** to **EQ5**.

- The preset pattern stored in memory will be retrieved.

- Touch **BACK** after making settings. The PEQ mode adjustments will be saved and the system will return to the previous operation screen.
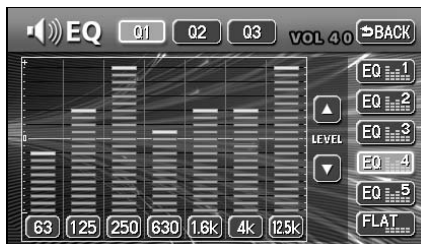
Resetting EQ curves

The currently saved equaliser can be returned to the default values.

1 Touch **FLAT** until you hear a beep.

- The equaliser curve will be reset to the default values.
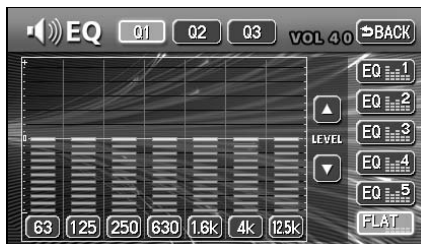
Setting POS (position selector)

The stereophonic position for obtaining optimum acoustic effects can be adjusted to match the number and position of passengers.

In addition, front-to-back, right-to-left volume balance can be adjusted for the selected position.

1 Touching the image of a seat shown on the **POS** setting screen will change the position.

- The selected position will change its colour to orange. Touching the seat again will cancel the selection. The four positions shown by the table below can be set.

- Touching **OFF** will cancel all settings.

- After making settings, touch **BACK**. The position will be saved and the system will return to the previous operation screen.
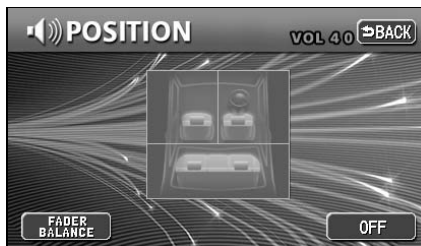
Touch switch	Function	Touch switch	Function
	Acoustics optimised for driver's seat		Acoustics optimised for both front seats
	Acoustics optimised for passenger's seat		Acoustics optimised for rear seats

ATTENTION
- This setting cannot be done at the same time as adjustment of the volume balance (see next page) and the Circle Surround II (Page 36).
- The main unit is configured for vehicles with a left-side driver's position.

Adjusting sound quality

Adjusting volume balance

The set position for front-to-back, right-to-left volume balance can be adjusted.

1 Touch **FADER BALANCE** on the
POSITION setting screen to
display the volume balance
adjustment screen.
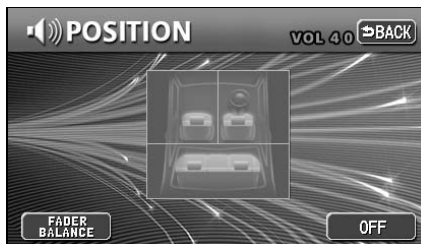
2 Touch the screen at the preferred
balance point.

- To make fine adjustments, touch ▲,
  ▼, ◄, ►.
- Touching **CENTER** will set the
  volume balance to the centre position.
- After making settings, touch **BACK**.

- The set volume balance will be saved
 and the system will return to the
  previous operation screen.
- To set the POS again, touch **POS**.

ATTENTION
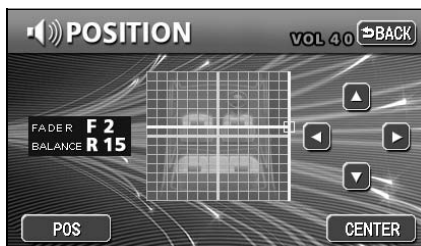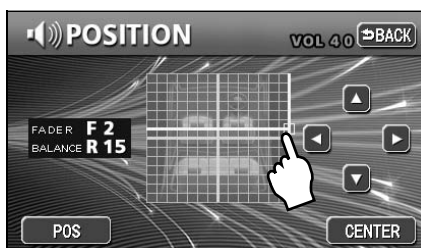
- This setting cannot be done at the same time as POS (position selector)
  adjustment, described on the previous page.
- Touching and holding ▲, ▼, ◄ or ► while making fine adjustments will
  adjust values in a continuous action. However, adjustment will lock when it
  reaches the centre value, and ▲, ▼, ◄ or ► must be pressed again to
  continue adjustment.

Setting the BEEP tone

The guide tone that is emitted when touching a panel switch or touch switch can be set.

1 Touch **SETTING** on the INFORMATION screen.

2 Touch **1**, **2**, **3**, **4**, or **OFF** of GUIDE TONE.

- The pressed touch switch will become brighter.
- Touching **OFF** will cancell (turn off) the guide tone.

3 Touch **ENTER**.

Muting sound

Sound from the audio system can be temporarily muted.

1 Press **MUTE**.

- Volume will become zero.
- Pressing **MUTE** switch again will return to previous volume.
- The VOLUME display will flash during mute.

MUTE switch

ATTENTION
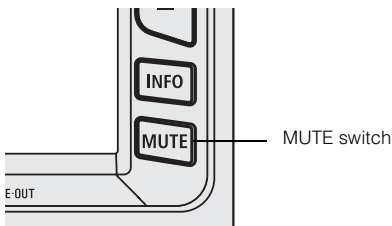
The MUTE function will be cancelled on pressing the **+** VOLUME switch (it is unaffected by pressing the **−** switch).

Adjusting sound quality

Switching the bass enhancement (Tru Bass)

You can switch the bass enhancement.

• Note that the Tru Bass is adjusted only when the Circle Surround II (page 36) effectiveness is set to Low or Hi.

1 Press **INFO** .

2 Touch **SETTING** on the INFORMATION screen.

3 Touch **NEXT** .

4 Touch **ON** or **OFF** of Tru Bass.

5 Touch **ENTER** .

Setting LOUDNESS

Audio can be modulated to correct for insufficient low and high sounds when listening at low volume.

1 Press **INFO** .

2 Touch **SETTING** on the INFORMATION screen.

3 Touch **NEXT** .

4 Touch **ON** or **OFF** of LOUDNESS.

   • The pressed touch switch will become brighter.

5 Touch **ENTER** .

Setting the sub-woofer

When a sub-woofer is connected, the preferred output level for the audio can be set.

1 Press **INFO** .

2 Touch **SETTING** on the INFORMATION screen.

3 Touch **NEXT** .

4 Touch **WOOFER** in the setting screen.

SETTING	⇆BACK	ENTER
LOUDNESS	ON	OFF
HARMONIZER	LOW HI	OFF
TruBass	ON	OFF
		WOOFER
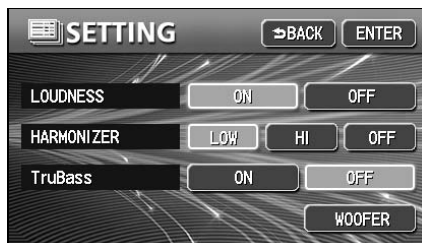
Selecting phase control

The merging of sound between the front and rear speakers and the sub-woofer can be improved by selecting the phase.

Switch to a phase which lets the speakers combine without any disharmony.

1 Touch **NORMAL** or **REVERSE** for PHASE CONTROL.

• Touch **BACK** after making settings. The phase control will be saved and the system will return to the previous screen.

WOOFER CONT VOL 40 ⇆BACK

WOOFER OUTPUT
STEREO MONO

PHASE CONTROL
NORMAL REVERSE

WOOFER LEVEL
▼ ▲ +3

WOOFER ╳ 4SP

FREQUENCY
◄ ► 200 Hz

SLOPE
6dB/oct 12dB/oct PASS

Selecting the sub-woofer level

The output level of the sub-woofer can be adjusted with this function.

1 Touch **▲** or **▼** for WOOFER LEVEL.

▲: Increase level

▼: Decrease level

• Touch **BACK** after making settings. The woofer level will be saved and the system will return to the previous screen.

WOOFER CONT VOL 40 ⇆BACK

WOOFER OUTPUT
STEREO MONO

PHASE CONTROL
NORMAL REVERSE

WOOFER LEVEL
▼ ▲ +3

WOOFER ╳ 4SP

FREQUENCY
◄ ► 200 Hz

SLOPE
6dB/oct 12dB/oct PASS

Adjusting sound quality

Setting WOOFER OUTPUT

The sub-woofer output can be set to STEREO or MONO. Select the method that matches the output method for the connected sub-woofer system.

1 Touch **STEREO** or **MONO** for WOOFER OUTPUT.

- Touch **BACK** after making settings. The woofer output setting will be saved and the system will return to the previous screen.

Setting X-OVER

The frequencies for the front and rear speaker high-pass filter (HPF) and sub-woofer low-pass filter (LPF) can be set within a range of 63 / 80 / 100 / 125 / 160 / 200 Hz. (This is the same as setting the HPF and LPF cutoff frequencies.)

1 Touch ◀ or ▶ to select the cut off frequency.

2 Touch **6dB/oct**, **12dB/oct** or **PASS** to select the slope.

- Touch **BACK** after making settings. The crossover setting will be saved and the system will return to the previous screen.

| ATTENTION | If no sub-woofer has been connected, set the slope adjustment to "PASS". (If slope is set to a setting other than PASS, the low frequency range will not be output from the speakers.) |

Setting the harmoniser

It is possible to set the sound quality boost level to automatically regenerate harmonics such as reverberation, depth, and tone lost in compression, producing a much clearer sound.

1 Press **INFO** .

2 Touch **SETTING** on the INFORMATION screen.

3 Touch **NEXT** .

4 Touch **Low** , **Hi** or **Off** for HARMONIZER.

* **Low** : Low level of correction
  Hi : High level of correction
  OFF : No correction

SETTING		⇒BACK	ENTER
LOUDNESS	ON		OFF
HARMONIZER	LOW	HI	OFF
TruBass	ON		OFF
			WOOFER

5 Touch **ENTER** .

* Selection can be made when MP3/WMA disc is inserted into the unit.
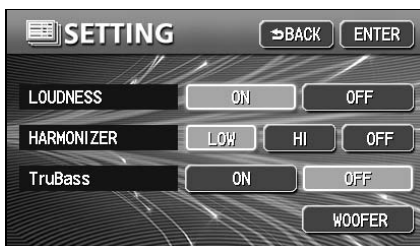
Adjusting sound quality

Setting the Circle Surround II

The Circle Surround II reproduces deep bass and localisation of sound without a centre speaker and/or a sub-woofer.

This is also applied to the audio of radio. However, it is not effective for the AM radio.

1 Touch **OFF**, **Low** or **Hi** on the operation screen.

- Touch **SET** (in VTR mode) or touch **NEXT** and then **SET** (in DVD mode) to display the touch switches for adjusting sound quality.
- Each time touch switch is touched, the screen display will be changed in the order shown below.

OFF → LOW → Hi

- **Low** : The effectiveness to reproduce the deep bass sound and the localisation of sound is low.

  Hi : The effectiveness to reproduce the deep bass sound and the localisation of sound is high.

  OFF : cancells the function.

ATTENTION

The Circle Surround II setting cannot be done at the same time as DSP (page 24), POS (the position selector) adjustment (page 29) and LOUDNESS adjustment (page 32).

Setting the background screen

The background for the audio screen, information screen and navigation screen can be changed to a preferred wallpaper.

Setting the wallpaper

Changing the wallpaper

1 Press **INFO** .

2 Touch **SETTING** on the INFORMATION screen.

3 Touch **1** , **2** , **3** , **4** or **5** of WALL PAPER.

- The pressed touch switch will become brighter and the wallpaper (background) will change.

4 Touch **ENTER** .

```
┌─────────────────────────────────────┐
│ ▤ SETTING          [ NEXT ] [ ENTER ]│
│                                      │
│ CAMERA SETTING   [  AUTO  ] [ MANUAL ]│
│                                      │
│ GUIDE TONE      [1][2][3][4][OFF]    │
│                                      │
│ WALL PAPER      [1][2][3][4][5]      │
└─────────────────────────────────────┘
```
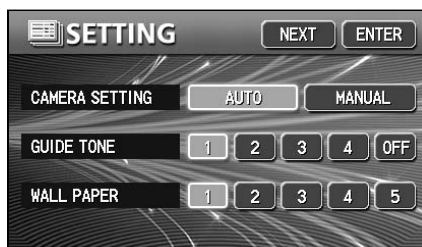
Adjusting the background screen

Setting the opening screen
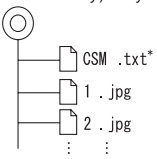
The image displayed on the opening screen (which is displayed when the power is turned on) can be changed to your favorite one stored in a CD-R/RW.

Changing the image on the opening screen

1 Insert a CD-R/RW disc that includes your favorite image.

• It would take approximately 30 seconds to read the image data. While the image data is being read, do not operate the main unit and the ignition key.

2 Touch **Opening Image Change** .

3 Touch the image you want to display on the opening screen.

4 Touch **OK** .

• Be sure to eject the CD-R/RW disc that includes the image data.

About usable image data

The format of disc and image data that can be used on the opening screen are shown in the table below. If your disc and/or data does not meet the conditions below, the file names may not be listed nor displayed correctly.

	CD-R/RW
Disc format	ISO9660 (MODE1)
File size	Smaller than 100 KB
File name	ISO9660 LEVEL 2 (Up to 31 bytes)
File extension	.jpg (Non-JPEG2000-compliant)
Writing method	Single-session only
Image size	416 (W) X 240 (H) dots (Max.)
Displayed file	The files in the root directory (top-most directory) only. CSM .txt* 1 . jpg 2 . jpg

*When storing the image data in a CD-R/RW disc, make a text file named "CSM.txt" (any content/text is OK) and store it together with the image data.

• If the image size is larger than the condition above, the image cannot be previewed or imported.
• If the image size is smaller than the condition above, the image will be displayed at the centre of screen.
• Only one image data can be imported at a time.

Adjusting/setting the screen

Quality adjustments can be made for the images such as the audio operation screen, navigation screen and DVD or VTR (optional).

Displaying the image adjustment screen

Contrast, brightness and other picture settings can be adjusted to match preferences for viewing DVD video or the audio operation screen.

To make viewing easier, the display switches between day screen/night screen according to whether the vehicle lights (parking lights, taillights, license plate lights) are on/off.

(Default settings)

• When vehicle lights are on: [Night screen is displayed]

• When vehicle lights are off: [Day screen is displayed]

[Audio operation screen]

● Day display [Vehicle lights are off]

● Night display [Vehicle lights are on]

[DVD/VTR Screen]

● Day display [Vehicle lights are off]

● Night display [Vehicle lights are on]

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Adjusting/setting the screen

1 Press **DISP** on the audio mode screen or DVD/VTR screen.

2 Touch **ENTER** after making any adjustments.

- If no adjustments are made after 20 or more seconds, the image quality adjustment screen will be cancelled.
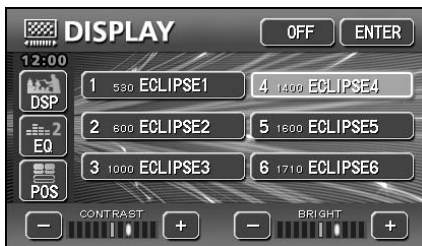
● When adjusting audio operation screen

● When adjusting DVD/VTR screen

How to switch to daytime display when the lights are ON

1 The day screen and night screen will be switched each time **DAY** is pressed.

● When adjusting audio operation screen

● When adjusting DVD/VTR screen

Turning off the screen

1 Touch **OFF**.

- Press **CONT** or **NAVI** to return to the original screen.

Adjusting image quality

The day screen and night screen can be separately adjusted (on the audio operation screen, the navigation screen, and the DVD/VTR screen).
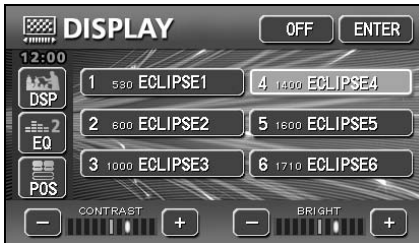
● When adjusting audio operation screen or navigation screen

● When adjusting DVD/VTR screen

■ CONTRAST

1 Touch ➕ to strengthen contrast, ➖ to weaken contrast.

■ BRIGHT

1 Touch ➕ to make lighter, ➖ to make darker.

■ COLOUR (for DVD/VTR screen only)

1 Touch ➕ to strengthen green colour, ➖ to strengthen red colour.

■ TINT (for DVD/VTR screen only)

1 Touch ➕ to make tint darker, ➖ to make tint lighter.

Switching screen mode

1 Touch **WIDE** on DVD or VTR operation screen.

2 Touch **NORMAL** , **WIDE1** , **WIDE2** or **WIDE3** .

• This selects the wide mode.

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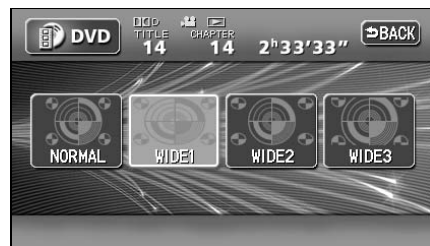
Adjusting/setting the screen

3 Touch **BACK** .

• Returns to the DVD or VTR operation screen.

■ NORMAL mode

The screen is shown with vertical to horizontal ratio of 3 to 4 (normal TV screen size) and side edges are black.

■ WIDE 1 mode

The screen for vertical to horizontal ratio of 3 to 4 (normal TV screen size) is uniformly expanded in the left and right directions.

■ WIDE 2 mode

The screen for vertical to horizontal ratio of 3 to 4 (normal TV screen size) is uniformly expanded in the left and right directions (except for the central section of the screen).

■ WIDE 3 mode

The screen for vertical to horizontal ratio of 3 to 4 (normal TV screen size) is uniformly expanded in the upward, downward, left and right directions.

⚠ **Caution** Viewing of wide screen modes is permitted when limited to the personal entertainment of the user, but caution is required when using technologies such as image compression and expansion for the purpose of commercial benefit or public presentation may infringe upon the rights of the copyright holder being protected by applicable copyright law.

MEMO

How to use the AM / FM radio

PWR
Button

(SOURCE) MENU
Button

TUNE TRACK
Button

Preset
Switches

AUTO.P
Switch
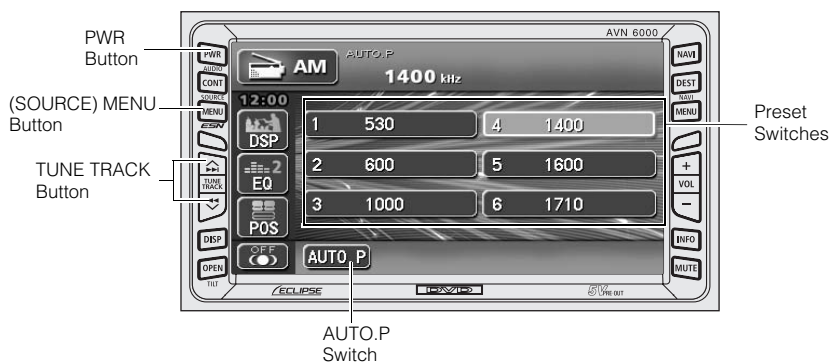
Listening to the AM/FM radio

1 Press **(SOURCE) MENU** .

2 Touch **AM** to receive AM radio, or **FM** to receive FM radio.

Selecting radio stations

Manual selection

1 Press ⏫ or ⏬.

- Each pressing of the switch moves the frequency one step up or down. (One step on the AM band is 10kHz. One step on the FM band is 0.2MHz.)

    ⏫ (up switch): Raises frequency

    ⏬ (down switch): Lowers frequency

Automatic selection

1 Press and hold the ⏫ or ⏬ switch until a beep is heard.

- The station that is closest in frequency to the frequency that is currently displayed on the screen will be searched for automatically, and searching will stop when the station is received. To stop the search before a station is found, press the button again.

Selection using preset switches

1 Touch the preset switch that already has a station recorded.

- Refer to "Saving radio stations" on page 47 for details on saving stations.

ATTENTION	If the reception for a particular station is weak in the area you are in, automatic selection may not work.

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How to use the AM / FM radio

Selecting radio bands

1 Touch **FUNC**.
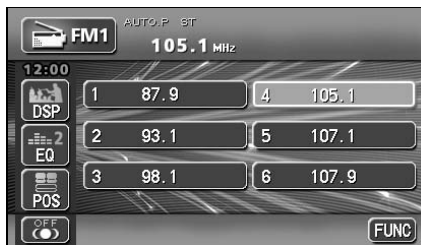
2 Touch **BAND**.

- Each time the switch is touched, the radio band will be changed in the order shown below.

FM1 → **FM2** → **FM3**
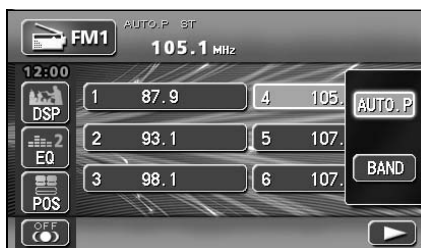
Saving radio stations

There are two modes for saving radio stations, manual and AUTO.P, and these modes operate independently.

Saving manually

Confirm that "AUTO.P" is not displayed in the upper part of the screen.

• If "AUTO.P" is displayed, touching **AUTO.P** will switch the screen to manual.

1 Use manual tuning or automatic tuning to select the station to be saved.

2 Choose a preset switch and touch it until a beep is heard.

   • The radio station (frequency) is set. Touching the preset switch will now tune in the selected station.

Saving with AUTO.P

■ When listening to the AM radio.

1 Touch **AUTO.P** until a beep is heard.

■ When listening to the FM radio.

1 Touch **FUNC**.

2 Touch **AUTO.P** until a beep is heard.

   • The AUTO.P function will be activated and start automatically selecting stations. A beep will be heard when automatic selection of stations is completed. On touching **AUTO.P** again, the display will switch to the previously recorded station.

Changing stations saved by AUTO.P

1 Use manual tuning or automatic tuning to select the station to be saved.

2 Choose a preset switch and touch it until a beep is heard.

How to use the AM / FM radio

About AUTO.P

Because AUTO.P temporarily saves stations for the preset switches, stations saved manually will remain in memory even if AUTO.P is used. By manually saving stations that are used regularly, these manually saved stations can be restored even after AUTO.P has been used, such as after travelling.

Touching **AUTO.P** while AUTO.P is being used or after AUTO.P has been used will return the preset memories back to the condition they had before AUTO.P was used. (Doing so will delete the stations saved with AUTO.P.) The flow for switching from AUTO.P to manual is shown below.

If the BAND is switched to another BAND, the saved station with AUTO.P is cleared.

| Manual | Touch **AUTO.P** until a beep is heard. → | AUTO.P (starts search) | Automatically saves stations to preset switches |

Touch **AUTO.P**

AUTO.P (stops search)

(Stations saved by AUTO.P are deleted)

ATTENTION
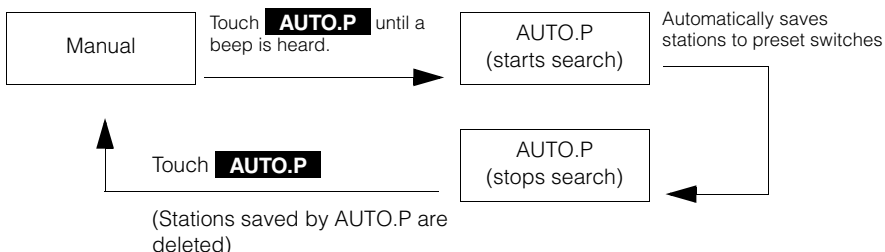
- AUTO.P may not automatically receive stations if radio waves in the surrounding area are weak.
- A station saved by the tuning switch may not match a station saved by AUTO.P even though the signal is received from the same station.
- Due to conditions for receiving radio waves, saved stations may differ even when the AUTO.P switch is operated repeatedly in the same location.
- Up to six stations having good reception sensitivity are automatically saved in order starting from the lowest frequency.
- When less than six stations capable of reception are found, nothing is saved for the remaining preset switches.
- In the FM mode, when the BAND is switched to another BAND, the AUTO.P is canceled temporarily.

Turning off the radio

1 Press **PWR** .

- Pressing **PWR** again will turn on the radio and resume reception of the radio station (frequency) received before power was turned off.

How to use the CD player

PWR Button

(SOURCE) MENU Button

Track selection (track start point)/ Fast-forward (rewind) Button

Repeat Switch
Random Switch
Scan Switch

Listening to a CD

When a CD is inserted into the disc slot, it automatically starts playing.

1 Press **(SOURCE) MENU** while a CD is inserted.

2 Touch **CD** .

• Playback will begin.

Selecting a song

You can select a song you want to hear.

1 Press ☝ or ☟ .

• ☝ (up): Selects next song

☟ (down): Selects previous song

Restarts current track. Pressing the down button once more continuously plays previous tracks.

| ATTENTION | • Titles and song names can be displayed when they are recorded on a CD. Up to 32 characters can be shown in the display.
• Only characters recorded by ASCII code can be shown on the CD-TEXT display.
• The CD-TEXT display may not be able to show characters for discs recorded with many title characters. |

Fast-forwarding/rewinding

It is possible to fast-forward/rewind the song played currently.

1 Press ⚑ or ⚑ until a beep is heard.

   ⚑ (up): Fast-forwards

   ⚑ (down): Rewinds

   The main unit switches to the fast-forward (rewind) mode when the beep is heard and
   will continue fast-forwarding (rewinding) until your finger is removed from the switch.

Searching for a song

1 Touch **FUNC**.

2 Touch **SCAN**.

   • The main unit will play the first 10 seconds of each song. Touching **SCAN** again
     will continue playing the current song.

Repeating a song

1 Touch **FUNC**.

2 Touch **RPT**.

   • Touching **RPT** once will cause repeating of the song until the function is cancelled.
     Touching **RPT** again will cancell repeating of the song.

Playing songs in random order

1 Touch **FUNC**.

2 Touch **RAND**.

   • Touching **RAND** will play songs in random order until the function is cancelled.
     Touching **RAND** again will cancell random playing of songs.
   • The song to be played next is randomly selected at the end of current song, so it is
     possible that a single song could end up being played twice in a row.

CD

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How to use the CD player

Turning off the CD player

1 Press **PWR**.

- Pressing **PWR** again will start resume playback.

MEMO

How to use the MP3/WMA player

For safety considerations, some functions are disabled while the vehicle is in motion.

PWR Button

(SOURCE) MENU Button

Track selection (track start point)/ Fast-forward (rewind) Button

Repeat Switch

Random Switch

Scan Switch

File changing Switches
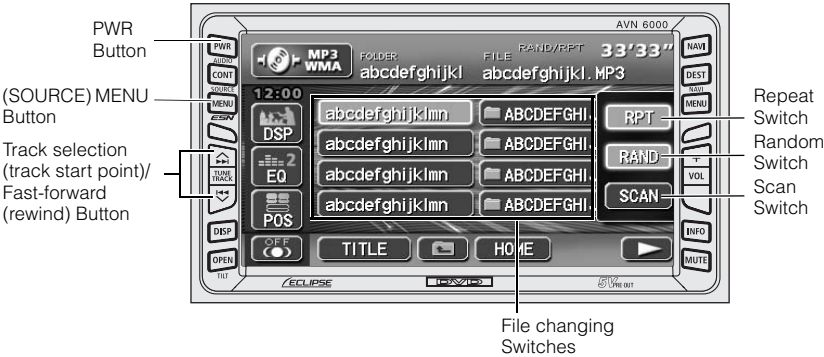
The following operating procedures are based on this example of MP3/WMA file structure below.

Example of MP3/WMA file structure

Folder

MP3/WMA audio file

1st level   2nd level   3rd level   4th level
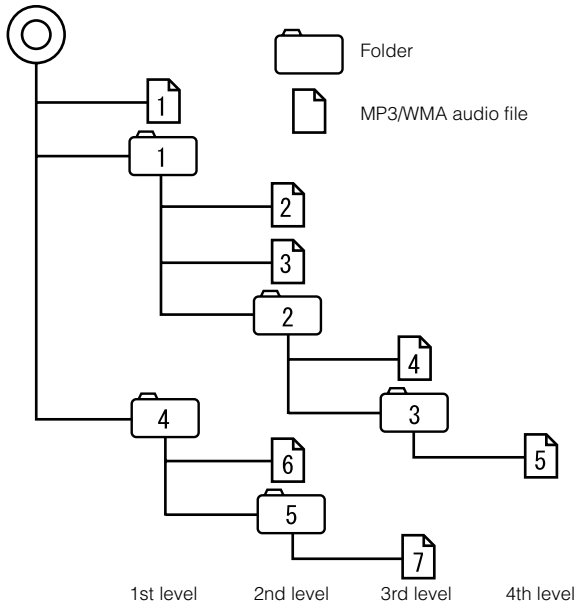
Playing MP3/WMA

When a CD is inserted into the disc slot, it automatically starts playing.

1 Press **(SOURCE) MENU** while a disc is inserted.

2 Touch **MP3 WMA** .

- Playback will begin.
- The CD player screen will be shown for about 2 seconds as the system checks whether the inserted CD is a music CD or MP3/WMA disc.

- Normally, tracks are played back in the order $\boxed{1} \rightarrow \boxed{2} \rightarrow \boxed{3} \rightarrow \boxed{4} \rightarrow \boxed{5} \rightarrow \boxed{6} \rightarrow \boxed{7}$.
- When multiple MP3/WMA files and folders are on the same level, they are played in ascending order by folder and file names.

Selecting a music file

A music file located within a folder can be selected.

Selecting with file change switches

1 Touch the music file.

- The currently selected file name and folder name will be shown in the display.

- When more than 10 music files are located in the same folder, touching ▲ or ▼ can switch between the data. (This function is not available when the vehicle is in motion.)

Selecting with TUNE/TRACK button

When several music files are located in the same folder, the next music file or previous music file can be selected with the track selection (track start point).

1 Press ⬆ or ⬇ .

- ⬆ (up): Selects next music file

  ⬇ (down): Selects previous music file

  Restarts current track. Pressing the down button once more continuously plays previous tracks.

> **ATTENTION**
> If sound data and MP3/WMA data are mixed on the same disc, only the data recorded in the first session can be played.

MP3

How to use the MP3/WMA player

Fast-forwarding/rewinding

It is possible to fast-forward/rewind in the song being played.

1 Press and hold the ⌃ or ⌄ switch until a beep is heard.

- ⌃ (up): Fast-forwards

  ⌄ (down): Rewinds

  The main unit switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

Changing display of the current level

The folder level can be switched and displayed.

1 Touch 🔁 or **HOME**.

- 🔁　　　 : Displays the next higher folder level.
- **HOME**　 : Displays the level of the file currently being played.

Displaying the current level

Displays the file currently being played.

1 Touch **HOME**.

Searching for a music file

1 Touch **FUNC**.

2 Touch **SCAN**.

- The system will play the first 10 seconds of each song located within the same layer of the folder currently being played. Touching **SCAN** again will continue playing the current song.

Repeating the same music file

1 Touch **FUNC**.

2 Touch **RPT**.

- The file currently being played will be repeated.
- Setting RPT will cause repeating of the song until the function is cancelled. Touching **RPT** again will cancell repeating of the song.

Playing songs in random order

1 Touch **FUNC**.

2 Touch **RAND**.

- Files will be randomly selected from among all files at the same level as the folder currently being played.

- **RAND** will play songs in random order until the function is cancelled. Pressing **RAND** again will cancell random playing of songs.

- Touching **RPT** while the random function is operating will repeat the currently playing song. Touching **RPT** again will return to random playing of songs.

- The song to be played next is randomly selected at the end of current song, so it is possible that a single song could end up being played twice in a row.

MP3

How to use the MP3/WMA player

About display of file information

Folder names and file information (album name and song titles) recorded on the disc can be displayed. The number of characters that can be displayed is as shown below.

Screen Display	
Folder/file names	Music file information
8 characters max.	30 characters max.

Displaying folder/file names

1 Press **CONT** to display the operation screen.

Displaying file information

1 Touch **TITLE**.

- The **TITLE** switch will change to **TITLE OFF** while file information is being displayed. Touching **TITLE OFF** will change the display to a folder/file switch.
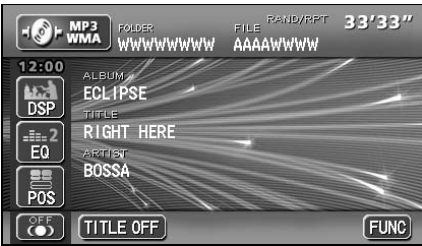
Turning off the MP3/WMA player

1 Press **PWR**.

- Pressing **PWR** again will resume playback.

About MP3/WMA

MP3 (MPEG-1 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.

WMA (Windows Media™ Audio) is the audio compression format by Microsoft. This can compress files to a smaller size than MP3 can.

This unit has limitations on MP3/WMA file standards and recorded media and formats that can be used. Be aware of the following points when recording MP3/WMA files.

Playable MP3 file standards

- Supported standards   : MPEG-1 Audio Layer III

- Supported sampling frequencies :   16, 22.05, 24, 32, 44.1, 48 (kHz)

- Supported bit rate   : 8 to 320 (kbps)

  * Supports VBR.
  * Does not support free format.
  * Bit rates vary for MPEG-1 and MPEG-2.

- Supported channel modes   : stereo, monaural, dual channel, joint stereo

MP3

How to use the MP3/WMA player

Playable WMA file standards

- Supported standards   : WMA Ver. 7, 8, 9

- Supported sampling frequencies : 44.1, 48 (kHz)

- Supported bitrates   : 48 to 192 (kbps)

    * VBR is supported (48 to 192 kbps)

    * No support for reversible compression
      (loss-less compression)

Playable sampling frequencies and supported bitrates

		Sampling frequencies (Hz)	
		48 k	**44.1k**
		2 (ch)	**2 (ch)**
Bitrates (bps)	**192 k**	◯	◯
	160 k	◯	◯
	128 k	◯	◯
	96 k	✕	◯
	80 k	-	◯
	64 k	✕	◯
	48 k	✕	◯
	VBR	◯	◯
		192 k max	192 k max

◯ : Playable

✕ : Not playable

- : No combination

ID3tag/WMAtag

MP3 and WMA files have an "ID3tag/WMAtag" that allows input of text information so that data such as song title and artist can be saved.

This unit supports ID3v.1.0 and ID3v.1.1 tags. Use only ASCII code to record tags, since only ASCII code is supported by this equipment. Recording of characters not included in ASCII code will result in display of garbled characters.

This unit supports the WMA tag (v1.20.02). Since the WMA tag supports unicode only, please input the information with unicode characters.

Media

Media capable of playing MP3/WMA includes CD-ROM, 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/CD-RW may become incapable of playback. Fingerprints or scratches on the disc may prevent playback or cause skipping during playback.

Sections of CD-R/CD-RW may deteriorate if left inside a vehicle for long periods of time.

It is also recommended that CD-R/CD-RW discs be kept in a light-blocking case because the discs are vulnerable to ultra-violet light.

MP3

How to use the MP3/WMA player

Format of discs

The format of discs to be used must be as following:

- Disc format   : CD-ROM (MODE 1), CD-ROM XA (MODE2 Form1)

- File format   : ISO9660 Level 1 or Level 2 ROMEO system, JOLIET system

MP3/WMA files recorded in a format other than the one explained above may result in files that cannot be played normally and in file names and folder names that do not display properly.

Limitations in addition to standards are as follows.

- Maximum directory layers   : 8 layers
- Maximum characters for folder names/file names : 30 characters for MP3 (including delimiter "." + file extension 3 characters) 15 characters for WMA (including delimiter "." + file extension 3 characters)
- Allowable characters for folder names/file names : A to Z, 0 to 9, _ (underscore)
- Number of files possible on a single disc   : 512
- Number of folders possible on a single disc   : 255

Configuration example for CD supporting MP3/WMA


```
◎
│
├─ ┌──┐
│  │ F1 │  Folder1
│  └──┘
│     ├─── 001.MP3
│     ├─── 002.MP3
│     ├─── 003.MP3
│     ├─── 004.WMA
│     ├─── 005.MP3
│     ┊
│     ├─── 512.MP3
│        ┌──┐
│     ├──│ F2 │  Folder2
│        └──┘
│        ┌──┐
│     ├──│ F3 │  Folder3
│        └──┘
│        ┊
│        ┌────┐
│     └──│ F255 │  Folder255
│        └────┘
```

A total of 512 files can be created within a single disc.

MP3
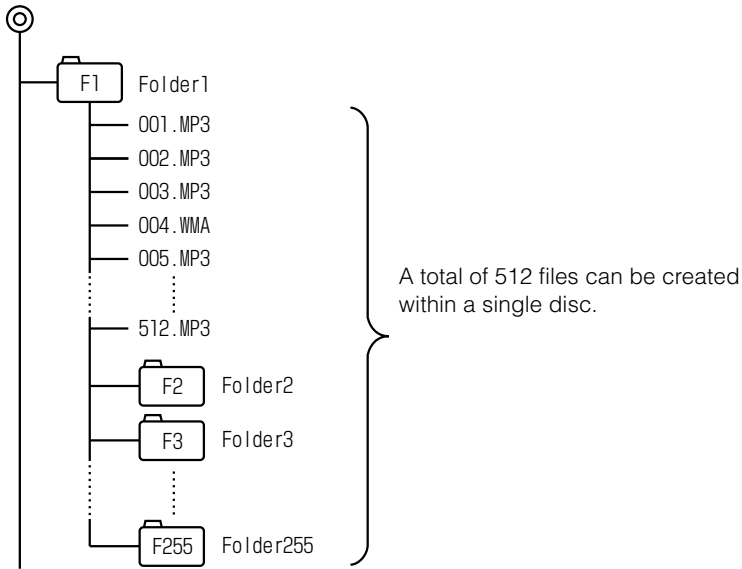
• A total of 255 folders can be recorded on a single disc.

How to use the MP3/WMA player

File names

Only files with the MP3/WMA file extension ".mp3/.wma" can be recognised as MP3/WMA and played. Be sure to save MP3/WMA files with the ".mp3/.wma" file extension.

Use half-width English capital letters to write "MP" or "WMA" of the extension.

Multi-sessions

Multisessions are supported and CD-R/RW with recorded MP3/WMA files can be played. When written with "Track at once", however, finalise the disc with session close or write protect.

Playing MP3/WMA

When a disc having MP3/WMA files recorded on it is inserted into the main unit, the system first checks all the files on the disc. If the number of files and folders is large, the check will take some time.

While the system is checking the disc, the music that had been playing continues to play.

In order to speed up completion of the file check, it is recommended that you avoid recording files that are not MP3/WMA files and avoid establishing unnecessary folders.

In addition, it is recommended that you record all data in a single session because a multisession disc takes time for CD control information acquisition.

MP3/WMA playing time display

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

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

Display order of MP3/WMA file/folder names

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

1. MP3/WMA files displayed first, by ascending order of numbers, letters.

2. Folders displayed next, by ascending order of numbers, letters.

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

Making and playing MP3/WMA files

MP3/WMA files created by recording broadcasts, records, audio recordings, video recordings or live performances cannot be used for purposes other than personal entertainment without permission of the copyright holder as set forth in copyright law.

Downloading from Internet MP3/WMA music sites

There are many kinds of sites that distribute MP3/WMA files on the Internet, such as "pay per download" online shopping sites, "try before you buy" listening sites and free download sites. Follow the rules for each site (such as paying fees) and download according to site instructions.

Converting CD music to MP3/WMA files

Prepare a computer with commercially available MP3/WMA encoding software (conversion software). (Some encoding programmes available on the Internet do not require payment.) Music data files in MP3/WMA format can be made by inserting the music CD into the CD-ROM drive of the computer and following the procedures of the MP3/WMA encoding software to compress the songs of the music CD. A 12cm music CD (having a maximum of 74 minutes of recording/650MB of data) can be compressed to 65MB (about 1/10 of the original size).

Writing to CD-R/CD-RW

MP3/WMA files can be recorded on CD-R/RW by using a CD-R/RW drive connected to a computer. Record by setting the recording format of the recording software to ISO9660 level 1 or level 2 (not including extension format).

Select CD-ROM (mode1) or CD-ROM XA (mode2) for the disc format.

When playing back CD-R/RW

Insert a CD-R/RW disc having recorded MP3/WMA files. The system will automatically determine whether the disc is a music CD or a CD-R/RW with MP3/WMA files and begin playing the disc. A music CD recorded onto a CD-R/RW can also be played. However, depending on the type of disc being used, a disc may not play.

ATTENTION	• A fixed bit rate of 128kbps and sampling frequency of 44.1kHz is recommended for obtaining stable audio quality at playback. • Depending on the characteristics of a disc, CD-R and CD-RW may not be able to read the disc. • Because there are many types of MP3/WMA encoding software available, including commercial and freeware programmes, audio quality may deteriorate, noise may be generated when playing starts and some recordings may not play, depending on the condition of the encoder and the file format. • When files other than MP3/WMA files are recorded on a disc, the system may take some time to recognise the disc and it may not play the disc.

MP3

How to use the CD changer

An optional CD changer can be connected and used.

PWR Button

(SOURCE) MENU Button

Track selection (track start point) / Fast-forward (rewind) Button

Disc repeat switch

Disc random switch

Disc scan switch

Disc changing switches

Listening to a CD

1 Press **(SOURCE) MENU** .

2 When only one CD changer is connected, touch **CD**CHANGER1 . When two CD changers are connected, touch **CD**CHANGER1 or **CD**CHANGER2 .

Selecting a song

Refer to "How to use the CD player" (Page 50).

Fast-forwarding/rewinding

Refer to "How to use the CD player" (Page 51).

Selecting a CD

A CD can be selected from among all the discs on a changer.

1 Touch one of the disc changing switches.

- The number for the selected CD will change colour.

Searching for a song or CD from all CDs in changer

Searching for a song

Refer to "How to use the CD player" (Page 51).

Searching for a CD

1 Touch **FUNC**.

2 Touch **DISC SCAN**.

- The system will play the first 10 seconds of the first song on each CD in the changer. Touching **DISC SCAN** again will continue playing the current song.

ATTENTION	• The system will display the amount of disc changing switches that matches the number of CDs that can be inserted into the CD changer, and it will only allow selection of disc numbers that have discs currently loaded. • No operation is possible when there are no discs loaded into the CD changer. • If two CD changers are connected, switch between the optional CD changers and the CD changer with **CD_{CHANGER1}** / **CD_{CHANGER2}**.

How to use the CD changer

Repeating a song or CD

Repeating the current song

Refer to "How to use the CD player" (Page 51).

Repeating the current CD

1 Touch **FUNC**.

2 Touch **DISC RPT**.

- Touching DISC RPT once will cause repeating of the CD until the function is cancelled Touching **DISC RPT** again will cancell repeating of the CD.

Playing songs in random order

Playing songs on current CD in random order

Refer to "How to use the CD player" (Page 51).

Playing songs on all CDs in random order

1 Touch **FUNC**.

2 Touch **DISC RAND**.

- Touching **DISC RAND** will play songs in random order until the function is cancelled. Touching **DISC RAND** again will cancell random playing of songs.
- The song to be played next is randomly selected at the end of current song, so it is possible that a single song could end up being played twice in a row.

Turning off the CD player

1 Press **PWR**.

- Pressing PWR again will start resume playback.

MEMO

Operating the iPod

When an optional iPod interface adaptor (iPC-106) is connected, it is possible to operate the iPod® with this main unit.

• iPod is for legal or rightholder-authorised copying only. Don't steal music.

• iPod is a trademark of Apple Computer, Inc., registered in Australia and other countries.

PWR Button
(SOURCE) MENU Button
Track selection (Track startpoint)/ Fast-forward (rewind) Button

Repeat switch
Random switch
ALBUM Random switch

MENU switch

ATTENTION	• For the functions of the iPod, refer to the iPod User's Guide. • For the specific details of the iPod operation and connection, refer to the Instruction Manual of the optional iPod interface adaptor (iPC-106). • It is assumed here that the iPod has already connected to this main unit with an optional iPod interface adaptor (iPC-106).

Listening to iPod

1 Press **(SOURCE) MENU** .

2 Touch **iPod** .

• Playback will begin

Selecting a song

You can select a song you want to hear.

1 Press 🔼 or 🔽 .

• 🔼 (up): Selects next song

  🔽 (down): Selects previous song

    Restarts current track. Pressing the down button once more continuously plays previous tracks.

Fast-forwarding/rewinding

It is possible to fast-forward/rewind the song played currently.

1 Press ⬆ or ⬇ until a beep is heard.

- ⬆ (up): Fast-forwards

  ⬇ (down): Rewinds

  The main unit switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

Searching for a song in various ways

You can select a song you want to listen to from ALBUM, ARTIST, PLAYLIST, GENRE or SONG.

Displaying the search mode screen

1 Touch **MENU** repeatedly until the search mode screen (top menu) as shown below is displayed.

2 Touch **PLAYLIST**, **ARTIST**, **ALBUM**, **GENRE** or **SONG** and select the song you want to listen to.

- If no operation was performed on the search mode screen for 10 seconds, it returns to the playback.

Search mode screen (top menu)

ATTENTION
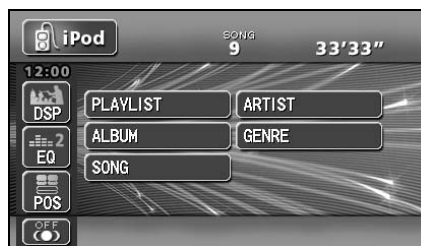
About text display

Alphanumeric and symbols can be used for text display. Even if the characters other than alphanumeric and symbols are displayed on your iPod, they are not displayed on this unit.
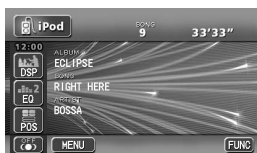
Playback mode screen   Search mode screen

Operating the iPod

Selecting a song from your favorite GENRE

1 Touch **GENRE** on the search mode screen.

- All the genre names stored in the iPod that is connected to this unit will be displayed.
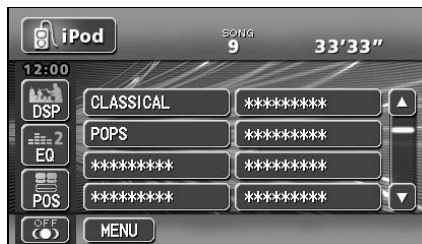
2 Touch GENRE name you want to browse.

- The ARTIST names stored in the selected GENRE will be displayed.

3 Touch ARTIST name you want to browse.

- Touching ARTIST briefly will display the ALBUM names stored in the selected ARTIST.
- By touching **ARTIST** for several seconds, the first track in the selected ARTIST will start playing.

4 Touch ALBUM name you want to browse.

- Touching ALBUM briefly will display the song names stored in the selected ALBUM.
- By touching **ALBUM** for several seconds, the first track in the selected ALBUM will start playing.

5 Touch the song name you want to listen to.

- The selected song will be played.

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Selecting a song from your favorite ARTIST

1 Touch **ARTIST** on the search mode screen.

- All the stored ARTIST names will be displayed.

2 Touch ARTIST name you want to browse.

- Touching it briefly will display the ALBUM names stored in the selected ARTIST.

- By touching **ARTIST** for several seconds, the first track in the selected ARTIST will start playing.
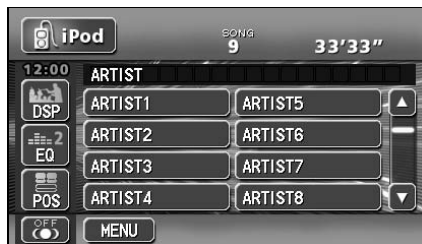
3 Touch ALBUM name you want to browse.

- Touching it briefly will display the song names stored in the selected ALBUM.

- By touching **ALBUM** for several seconds, the first track in the selected ALBUM will start playing.

4 Touch the song name you want to listen to.

- The selected song will be played.

Selecting a song from your favorite ALBUM

1 Touch **ALBUM** on the search mode screen.

- Touching it briefly will display all the stored ALBUM names.

2 Touch ALBUM name you want to browse.

- Touching it briefly will display the song names stored in the selected ALBUM.

- By touching **ALBUM** for several seconds, the first track in the selected ALBUM will start playing.

3 Touch the song name you want to listen to.

- The selected song will be played.

IPod

Operating the iPod

Selecting your favorite song from song name list

1 Touch **SONG** on the search mode screen.

- Touching it briefly will display all the stored song names.

2 Touch the song name you want to listen to.

- The selected song will be played.
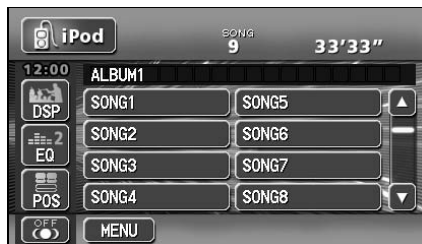
Selecting a song from your favorite PLAYLIST

1 Touch **PLAYLIST** on the search mode screen.

- Touching it briefly will display all the stored PLAYLIST names.
- Touching it for several seconds will play all the songs for every PLAYLIST.

2 Touch the PLAYLIST name you want to listen to.

- The selected PLAYLIST will be played.
- Touching **ALL SONGS** will play all the songs for every ALBUM.

ATTENTION
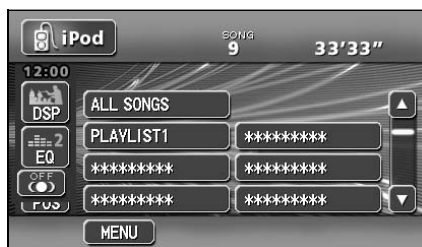
About REPEAT/RANDOM function
- REPEAT, RANDOM and ALBUM RANDOM correspond to the "Song REPEAT", "Shuffle" and "ALBUM shuffle" functions of the iPod, respectively.
- Touching **FUNC** will display the **RPT** , **RAND** and **ALBUM RAND** button.

MEMO

Before using the DVD player

This equipment can play high quality images and high quality digital sound of DVD videos. It is also possible to switch between different languages recorded on the DVD video (dubbing, subtitles, etc.), and with videos having several angles of the same scene recorded, the preferred angle can be selected and played.

DVD video characteristics

About Multiple Languages

Some DVD discs have dialog recorded in several different languages, and the language can be switched during playback in the same way as multilingual TV broadcasts.

An airplane was flying in the night sky...

About Multiple Angles

Some DVD discs have a single scene recorded from several different angles (multiple angle), and the preferred angle can be switched during playback.

* Depending on the disc, multiple angles may not be viewed.
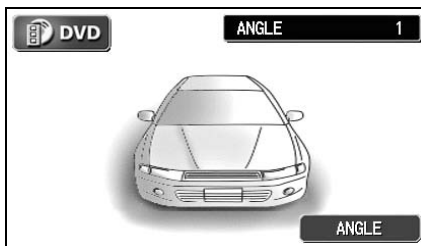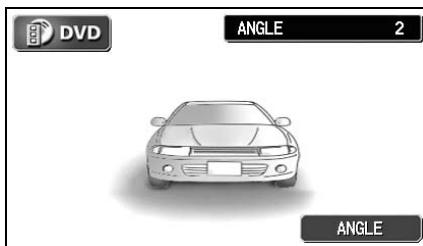
The angle of the image is

⚠ Caution	This equipment includes copyright protection technology used in accordance with US patents and other intellectual property rights owned by Macrovision Corporation and other entities. Use of this copyright protection technology requires approval from Macrovision Corporation and the technology must not be used for audiovisual purposes aside from general household use without special approval from Macrovision Corporation. Modification and disassembly of this technology is prohibited.

Some DVD discs have subtitles recorded in several different languages, and the subtitles can be switched during playback. The video can also be played without any subtitles displayed.

About discs

About playable discs

This equipment conforms to PAL colour television methods, so please use discs that display "PAL" on the disc or package. This equipment cannot play discs using colour television methods other than PAL (such as NTSC, SECAN).

Playable Disc Types and Their marks	Size/Playing Surface	Maximum Playing Time
DVD VIDEO	12 cm/single-sided 1 layer 2 layer	Using MPEG 2 133 min. 242 min.
DVD VIDEO	12 cm/double-sided 1 layer 2 layer	266 min. 484 min.

DVD

Before using the DVD player

About region codes of playable discs
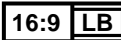
Some DVD discs display a ④ ("Region Code"). The mark (a number) shows the geographical region where the disc can be played. This equipment will not play discs that do not show "4" or "ALL" in this mark. Even if the disc does play, the message "Cannot play this disc" will be displayed on the screen. Note also that some discs may be subject to regional restrictions, meaning that this equipment will not play them, even though they list or state a region code.

ATTENTION	The playing condition is determined by the intention of the DVD/software creator. Some functions may not perform during operation because this equipment is playing the disc according to content specifications intended by the software creator. Be sure to consult the explanatory material provided with the disc to be played.

About marks displayed on discs

The following mark may be displayed on a DVD disc or its package.

mark	Meaning
3)))	Shows number of voice tracks.
2	Shows number of subtitle languages.
3	Shows number of filmed angles.
16:9 **LB** / **4:3**	Shows available aspect ratio (television screen horizontal to vertical ratio). • "16:9" is wide screen, "4:3" is standard screen.
ALL / **4**	Shows playable region code. • ALL indicates worldwide. A number indicates a specific region code. "4" is the region number for Australia.

DVD

Before using the DVD player

About DVD disc structure

Videos and songs recorded on a DVD are divided into many segments.

Large segments are called "titles", and each title has a number ("title number"). Title segments are further divided into smaller segments called "chapters", and each chapter has a number ("chapter number").

		Chapter 1
	Title 1	Chapter 2
		Chapter 3
		Chapter 1
DVD-Video	Title 2	Chapter 2
		Chapter 3
		Chapter 1
	Title 3	Chapter 2
	Title number	Chapter 3

Chapter number
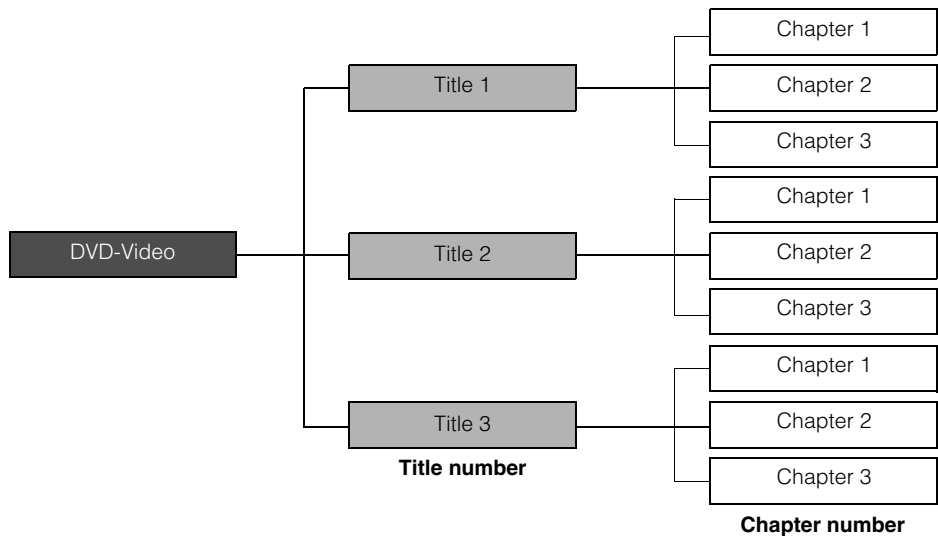
About flow of operations

The section below describes the flow for items such as operation and search of images and default settings for the DVD player.

• Touching a touch switch brings up the operation screen shown below.

● DVD operation screen

SEARCH →

← **BACK**

● Title screen

NEXT ↓   ↑ **BACK**

SET   **BACK**

↓ ✛   ↑ **BACK**
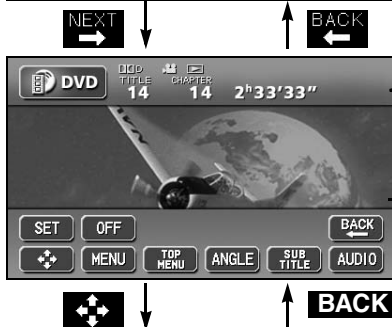
● Menu operation screen

NUMBER ↓   ↑ **BACK**
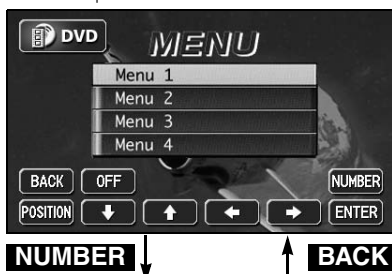
● Menu number search screen

SETUP ↓   ↑ **ENTER**
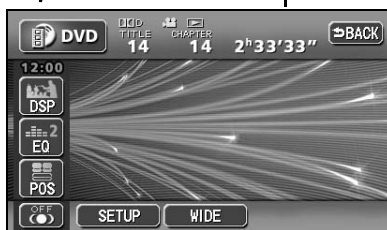
● Default settings screen

DVD

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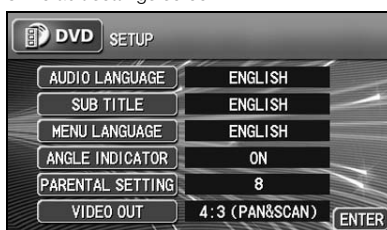
How to use the DVD player

A DVD can be watched only if the vehicle is completely stopped in a safe location with the parking brake set and the ignition switch turned to ON or ACC. (Only sound can be heard if a DVD is played while the car is in motion.)

Title number   Chapter number   Playing time

PWR Button

(SOURCE) MENU Button

Chapter changing/ Fast-forward (rewind) Button

Buttons off switch   Angle change switch   Subtitles change switch   Audio change switch
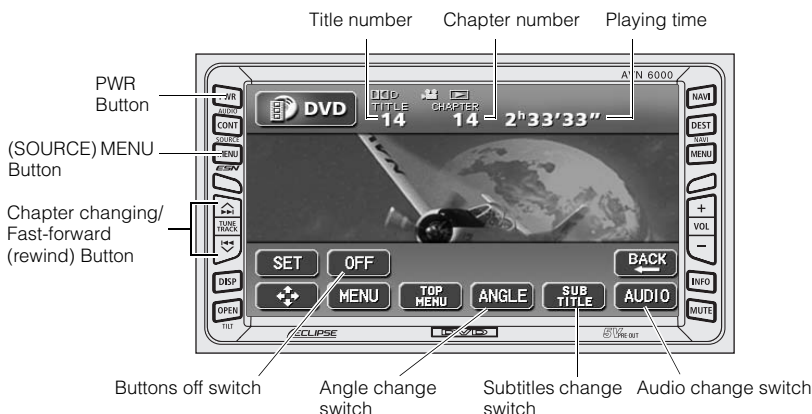
Watching a DVD

Start playback by inserting a DVD into the DVD insertion slot, which will automatically turn on power.

1 Press **(SOURCE) MENU** while a disc is inserted.

2 Touch **DVD**.

- • Playback will begin.
- • If the operation switches (touch switches) are being displayed, press **CONT** or touch the screen.

Operating the video

Playing the video

1 Touch ▶.

Fast-forwarding/rewinding

It is possible to fast-forward or rewind through the video being played.

Using panel button

1 Press and hold the ⬆ or ⬇ switch until a beep is heard.

- ⬆ (up): Advances the video

  ⬇ (down): Rewinds the video

- The main unit switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

Fast-forwarding/rewinding using the touch switches

1 Touch ◀◀ or ▶▶.

- The main unit switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

ATTENTION

- Information for items such as touch switches will be displayed for about 6 seconds. Pressing **CONT** or touching the screen will display them again.
- Depending on the disc, automatic playback may not function or playback may not function unless a menu recorded on the disc is selected. (Refer to "Operating the disc menu" on page 85.)

DVD

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How to use the DVD player

Pausing the video

1 Touch **II**.

- While paused (**II**), briefly touching **▶▶** will play in slow motion and touching **II** will play frame-by-frame.

Stopping the video

1 Touch **□**.

Operating the disc menu

It is possible to use the menu recorded on the disc.

1 Touch 🔜 on the DVD operation screen.

2 Touch **MENU** or **TOP MENU**.

3 Touch ✛.

4 Touch ⬆ ⬇ ⬅ ➡ and select
the video to play.

5 Touch **ENTER**.
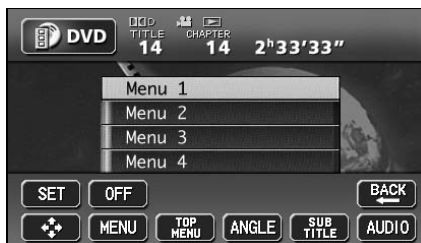
Turning off the DVD

1 Press **PWR**.

• Pressing **PWR** again will resume playback.

How to use the DVD player

Searching for a desired chapter

It is possible to search for a particular video segment by title and chapter or by menu number (number for divided segments).

Searching by chapter

1 Press or .

Chapter number

- (up): Selects next chapter

   (down): Selects previous chapter

| ATTENTION | Recorded menu items will differ by disc. Some functions may not perform during operation because playback is following disc content specifications. |

Searching by title number

1 Touch **SEARCH** on the DVD operation screen.

- The title number input screen will be displayed.

Title number

2 Input the title number by touching **—** , **+** , **-10** , **+10** .

- Touching **—** or **+** changes the title number by ones.
- Touching **-10** or **+10** changes the title number by tens.

3 Touch **ENTER**.

Searching by menu number

1 Touch ![NEXT] on the DVD operation screen.

2 Touch ![icon].

> DVD TITLE 14 CHAPTER 14 2ʰ33'33"
>
> SET   OFF   BACK
> ✛   MENU   TOP MENU   ANGLE   SUB TITLE   AUDIO

3 Touch **NUMBER**.

- The menu number input screen will be displayed.

> DVD
>
> BACK   OFF   NUMBER
> POSITION   ↓   ↑   ←   →   ENTER

4 Input the menu number by touching **—**, **+**, **-10**, **+10**.

- Touching **—** or **+** changes the menu number by ones.
- Touching **-10** or **+10** changes the menu number by tens.

5 Touch **ENTER** on the DVD operation screen.

> DVD   Select Menu No.   3
>
> BACK   OFF
> POSITION   —   +   -10   +10   ENTER

DVD

How to use the DVD player

Changing the touch switch display

Display of the touch switches can be changed or turned off.

Turning off the touch switches

1 Touch **OFF** on the DVD operation screen.

   • Pressing **CONT** or the touching the screen will display the touch switches again.

Changing the touch switch display locations

1 Touch ⇥ on the DVD operation screen.

2 Touch ✣.

3 Touch **POSITION**.

   • The position of the touch switch will move up or down with each touch of the screen.

POSITION ⬆ ⬇ **POSITION**

Switching between screen display and audio

It is possible to change the language for subtitles, the language for audio and the display angle for the video being played.

Switching the video angle

When several angles of a scene are recorded on a disc, the angle can be switched.

1 Touch ⇥ on the DVD operation screen.

2 Touch **ANGLE** when the multi-angle mark is displayed.

- The angle number will be displayed.

Multi-angle mark

3 Touch **ANGLE**.

- The angle number will change and the angle of the video will be switched.

Angle number

📖 ATTENTION	Each time **ANGLE** is pressed, the angle will change in order from among the angles recorded on the disc.

How to use the DVD player

Switching subtitle languages

When subtitles in several languages are recorded on a disc, the subtitles can be switched.

1 Touch ⇥ on the DVD operation screen.

2 Touch **SUB TITLE**.

• The subtitle number and language will be displayed.

3 Touch **SUB TITLE**.

• Switches the subtitle number each time the touch switch is touched and switches the displayed subtitle language.

Subtitle number and language

ATTENTION

• Each time **SUB TITLE** is pressed, the subtitle language will change in order from among the subtitles recorded on the disc.
• Depending on the disc, it may only be possible to change subtitles from the top menu.

Switching dubbed audio language

When dubbed voices in several languages are recorded on a disc, the voices can be switched.

1 Touch ![NEXT] on the DVD operation screen.

2 Touch **AUDIO**.

 • The audio number and language will
   be displayed.

3 Touch **AUDIO**.

 • The audio number will change and the
   language of voices being played will
   be switched.

Audio number and language

ATTENTION	• Each time **AUDIO** is pressed, the audio language will change in order from among the languages recorded on the disc. Language 1 ⟶ Language 2 ⟶ Language... • Depending on the disc, it may only be possible to change the language from the top menu. • The dts format is not supported by this equipment, so no audio will be emitted when "dts audio" is selected by a disc having dts audio recorded on it. In this case, select "Dolby Digital audio" if it is definitely recorded on the DVD video. • dts is a registered trademark of the US company Digital Theater Systems, Inc.

How to use the DVD player

Setting the DVD player

The language preference for voices, subtitles and menu display used during DVD playback can be set in advance. Optional display of the multiple angle mark, viewer restriction and other functions can also be set.

1 Touch ➡ on the DVD operation screen.

2 Touch **SET**.

3 Touch **SETUP**.

• The SET UP screen will be displayed.
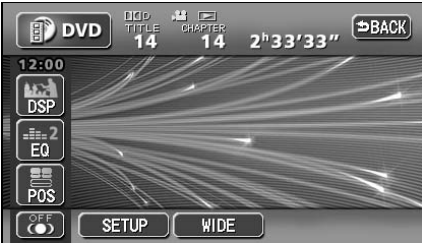
4 Touch any of the touch switches. Settings can be made for the following items.
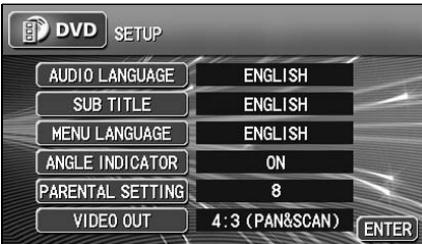
Touch switch	Function	Page
AUDIO LANGUAGE	Sets the language of voices for video playback.	93
SUB TITLE	Sets the language of subtitles for video playback.	94
MENU LANGUAGE	Sets the language of displayed menus.	95
ANGLE INDICATOR	Sets display/non-display of multiple angle mark.	96
PARENTAL SETTING	Restricts the types of DVD videos that can be played.	97
VIDEO OUT	Sets screen size.	98

Setting the audio language

The preferred language for the video being played can be selected.

1 Touch **AUDIO LANGUAGE** on the
SET UP screen.

2 Touch the preferred language.

- Touching **OTHER** enables setting of
a language other than those displayed
on the screen.

> **DVD** AUDIO LANGUAGE
>
> | ENGLISH | GERMAN |
> | FRENCH | ITALIAN |
> | SPANISH | DUTCH |
> | JAPANESE | OTHER |
>
> ENTER

Input a code

1 Touch **OTHER** on the AUDIO
LANGUAGE setting screen.

2 Input a language code.

- Refer to "Table of language codes" on
page 99 for language codes.

3 Touch **ENTER**.

> **DVD** AUDIO LANGUAGE   ⇆BACK
>
> 1 2 3 4
>
> | 1 | 2 | 3 |
> | 4 | 5 | 6 |
> | 7 | 8 | 9 |
> | 0 | CLEAR |
>
> ENTER

DVD

93

How to use the DVD player

Subtitle language setting

The preferred subtitles for the video being played can be selected.

1 Touch **SUB TITLE** on the SET UP
screen.

2 Touch the preferred language.

- Touching **OTHER** enables setting of
  a language other than those displayed
  on the screen.

- Touching **OFF** plays the video with
  no subtitles on the screen.

Input a code

1 Touch **OTHER** on the SUB TITLE
setting screen.

2 Input a language code.

- Refer to "Table of language codes" on
  page 99 for language codes.

3 Touch **ENTER**.
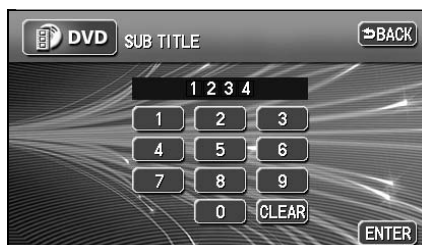
ATTENTION Language switching cannot be performed if the selected language is not
recorded on the disc.

Menu language setting

Allows selection of a preferred menu language from those recorded on the disc.

1 Touch **MENU LANGUAGE** on the SET UP screen.

2 Touch the preferred language.

• Touching **OTHER** enables setting of a language other than those displayed on the screen.

Input a code

1 Touch **OTHER** on the MENU LANGUAGE setting screen.

2 Input a language code.

• Refer to "Table of language codes" on page 99 for language codes.

3 Touch **ENTER**.

DVD

How to use the DVD player

Setting display of multi-angle mark (angle selection mark)

The multi-angle mark can be set to display/not display for the video being played.

Multi-angle mark

```
DVD    TITLE    CHAPTER
        14        14        2h33'33"

SET    OFF                              BACK

      MENU   TOP      ANGLE   SUB     AUDIO
             MENU             TITLE
```

1 Touch **ANGLE INDICATOR** on the SET UP screen.

- Each time ANGLE INDICATOR is pressed, the condition will switch between "ON" and "OFF".

2 Touch **ENTER**.
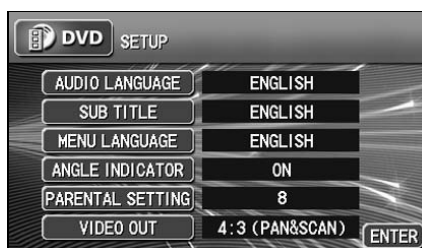
```
DVD  SETUP

AUDIO LANGUAGE        ENGLISH
SUB TITLE             ENGLISH
MENU LANGUAGE         ENGLISH
ANGLE INDICATOR          ON
PARENTAL SETTING          8
VIDEO OUT          4:3 (PAN&SCAN)   ENTER
```

ATTENTION	• Language switching cannot be performed if the selected language is not recorded on the disc. • Setting multi-angle mark display to "ON" will display the multi-angle mark in the upper right corner of the screen when multiple angles are available on the disc.

Viewer restriction setting

This function allows restriction of viewing so that discs with adult themes or violent scenes will not be available to children. Viewer restriction can be set at different levels to match restriction ratings.

1 Touch **PARENTAL SETTING** on the SETUP screen.

2 Enter a password (4 digits) by touching one number at a time.

3 Touch **ENTER**.

4 Touch the preferred restriction level.

5 Touch **ENTER**.

• If you touched **ENTER** after inputting a wrong password, eject the disc once to set the viewer restriction setting again.

DVD
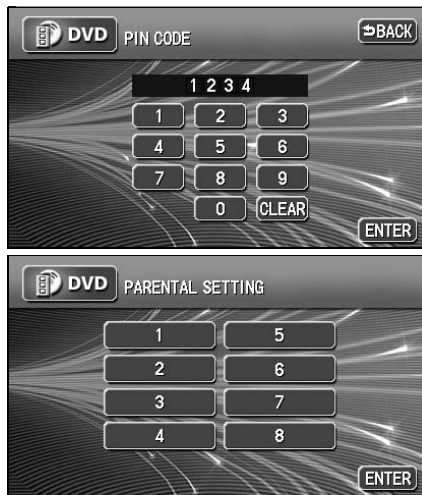
ATTENTION
• Restriction cannot be set for discs not having a viewer restriction level recorded.
• Be sure to enter a password number. If a number is not entered, setting of viewer restriction will not be possible.
• The password to be shown in the upper section will be displayed as ---- when a password has not yet been set.
• Once the password has been set, the password will be required for subsequent use of this function. Please do not forget the password. If the password is forgotten, the default condition (no password set) can be restored by touching **CLEAR** 10 times.
• Viewer restriction levels are classified in 3 types.
Level 1 .... Plays only DVD software intended for children. (Playing of DVD software intended for general audiences or adult audiences is prohibited.)
Level 2 - 7 .... Plays only DVD software intended for children or general audiences. (Playing of DVD software intended for adult audiences is prohibited.)
Level 8 .... Plays all DVD software. (Factory setting)

How to use the DVD player

Changing video output

1 Touch **VIDEO OUT** on the SETUP screen.

- Each time VIDEO OUT is pressed, the screen size will be changed in the order shown below.

16:9 → 4:3 letter box → 4:3 pan & scan
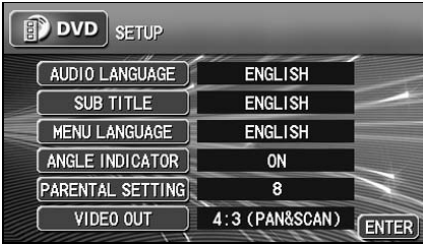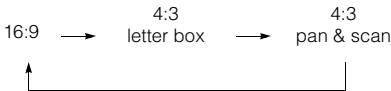
2 Touch **ENTER**.

- **16:9**
  The video is displayed in normal wide size. DVD software recorded in 4:3 size will be displayed with black left and right edges or will be expanded to the left and right.
- **4:3 (letter box)**
  The video is displayed with black upper and lower edges.
  DVD software recorded in 4:3 size will be displayed exactly at screen size (4:3).
- **4:3 (pan & scan)**
  The video is displayed with right and left edges cut off. DVD software recorded in 4:3 size will be displayed exactly at screen size (4:3).

ATTENTION	When another monitor such as the rear seat monitor is being used, the size of the video being displayed in the rear seat monitor will differ according to the video output size that is set by this equipment (front).

Caution	Viewing of wide screen modes is permitted when limited to the personal entertainment of the user, but caution is required when using technologies such as image compression and expansion for the purpose of commercial benefit or public presentation may infringe upon the rights of the copyright holder being protected by applicable copyright law.

Table of language codes

These codes are used to specify the language for audio tracks, subtitles and on-screen menu displays.

Input code	Language	Input code	Language	Input code	Language
1001	Japanese	0801	Hausa	1721	Quechua
0514	English	0809	Hindi	1813	Rhaeto-Romance
0618	French	0818	Croatian	1814	Kirundi
0405	German	0821	Hungarian	1815	Romanian
0920	Italian	0825	Armenian	1823	Kinyarwanda
0519	Spanish	0901	Interlingua	1901	Sanskrit
1412	Dutch	0905	Interlingue	1904	Sindhi
1821	Russian	0911	Inupiak	1907	Sangho
2608	Chinese	0914	Indonesian	1908	Serbo-Croatian
1115	Korean	0919	Icelandic	1909	Sinhalese
0512	Greek	0923	Hebrew	1911	Slovak
0101	Afar	1009	Yiddish	1912	Slovenian
0102	Abkhazian	1023	Javanese	1913	Samoan
0106	Afrikaans	1101	Georgian	1914	Shona
0113	Amharic	1111	Kazakh	1915	Somali
0118	Arabic	1112	Greenlandic	1917	Albanian
0119	Assamese	1113	Cambodian	1918	Serbian
0125	Aymara	1114	Kannada	1919	Siswati
0126	Azerbaijani	1119	Kashmiri	1920	Sesotho
0201	Bashkir	1121	Kurdish	1921	Sundanese
0205	Byelorussian	1125	Kirghiz	1922	Swedish
0207	Bulgarian	1201	Latin	1923	Swahili
0208	Bihari	1214	Lingala	2001	Tamil
0209	Bislama	1215	Laothian	2005	Telugu
0214	Bengali	1220	Lithuanian	2007	Tajik
0215	Tibetan	1222	Latvian	2008	Thai
0218	Breton	1307	Malagasy	2009	Tigrinya
0301	Catalan	1309	Maori	2011	Turkmen
0315	Corsican	1311	Macedonian	2012	Tagalog
0319	Czech	1312	Malayalam	2014	Setswana
0325	Welsh	1314	Mongolian	2015	Tonga
0401	Danish	1315	Moldavian	2018	Turkish
0426	Bhutani	1318	Marathi	2019	Tsonga
0515	Esperanto	1319	Malay	2020	Tatar
0520	Estonian	1320	Maltese	2023	Twi
0521	Basque	1325	Burmese	2111	Ukrainian
0601	Persian	1401	Nauru	2118	Urdu
0609	Finnish	1405	Nepali	2126	Uzbek
0610	Fiji	1415	Norwegian	2209	Vietnamese
0615	Faroese	1503	Occitan	2215	Volapuk
0625	Frisian	1513	Oromo	2315	Wolof
0701	Irish	1518	Oriya	2408	Xhosa
0704	Scots-Gaelic	1601	Panjabi	2515	Yoruba
0712	Galician	1612	Polish	2621	Zulu
0714	Guarani	1619	Pashto		
0721	Gujarati	1620	Portuguese		

How to use the VTR

Connecting a VTR deck enables watching of video tapes. Videos can be played only if the vehicle is completely stopped in a safe location with the parking brake set and the ignition switch turned to ON or ACC. (Only sound can be heard if a VTR is played while the car is in motion.)

Power button

CONT button

SOURCE button

AVN 6000

Viewing the VTR

1 Press **(SOURCE) MENU** .

2 Touch **VTR** .

  • The VTR screen will be displayed.

  • Press **CONT** or touch the screen to display the VTR operation screen.

  • By touching **ENTER** on the VTR operation screen, the display will show video again.

Switching the VTR setting screen

Various setting mentioned below can be made by switching to the VTR setting screen.

• Tone control such as EQ and POS

• Switching the screen mode (wide mode)

1 Touch **SET** on the VTR operation screen.

  • By touching **BACK** , the display will return to the VTR operation screen.

| ATTENTION | • This unit accepts the NTSC video signal. Use a video player that takes NTSC video signal. |

100

Turning off the VTR mode

1 Press **PWR**.

- Pressing PWR again will resume playback.
- Video can also be played by pressing **(SOURCE) MENU** and touching **VTR**.

ATTENTION

- After switching to the VTR operation screen, touch switches will be displayed for about 6 seconds. Pressing **CONT** will display them again.
- The VTR operation screen will be displayed by touching the screen, even when the VTR is playing.
- Depending on the kind of devices connected, the video image may not be displayed correctly.

VTR

How to use the DUAL PLAY

The DUAL PLAY function provides another audio system (DVD, CD, MP3/WMA) specially for rear seat passengers by using the optional rear seat monitor.

Setting the rear seat monitor

Setting of rear seat monitor can be made.

1 Touch RSE on the INFORMATION screen.

2 Touch ON or OFF for DUAL PLAY.

- ON :The rear seat monitor provides audio and video separately from the front seats.

- OFF : The rear seat monitor does not provide audio and video.
  When the DVD or VTR is selected for front seats, the same audio/video as the front seats will be output.
- When the DUAL PLAY is set to ON, the audio for rear seat passengers can be operated with the optional remote control [RRC106].
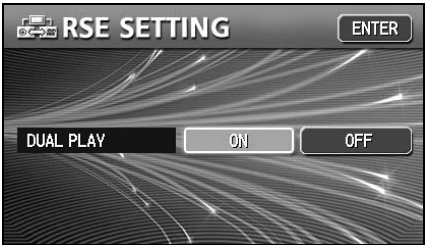
3 Touch ENTER .

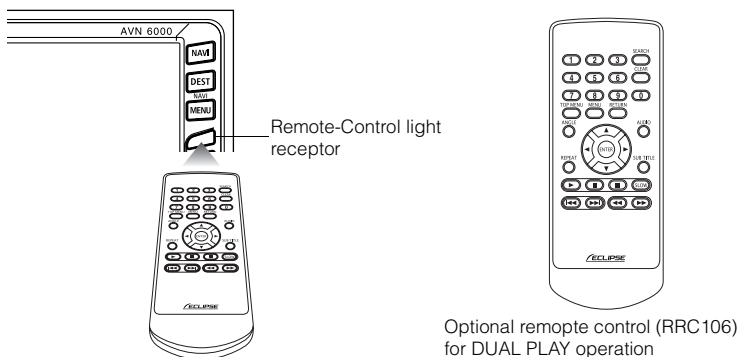In the DUAL PLAY mode, the combinations of the Audio functions that can be selectable are as following:

Selected Audio mode for Front seat	Selected Audio mode for Rear seat
• AM/FM • DISC(DVD·CD·MP3/WMA) • iPod • CD changer • VTR	• DISC(DVD·CD·MP3/WMA)

ATTENTION	• The audio for rear seat passengers is output from rear monitor built-in speakers. • This unit outputs the NTSC video signal. Use a monitor that accepts NTSC video signal.

Operating the rear seat monitor

The rear seat monitor can be operated using a dedicated remote control.

AVN 6000

Remote-Control light receptor

Optional remopte control (RRC106)
for DUAL PLAY operation
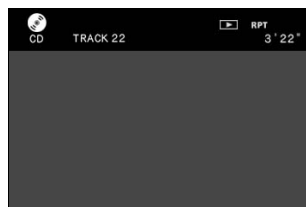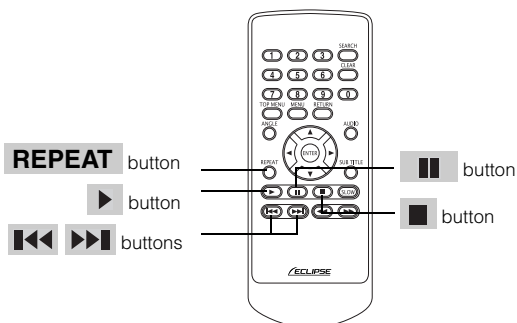

⚠️ **Caution**

Precautions in use of the remote control
- Be careful when handling the remote 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 directly at the remote control light receptor.
- The light receptor may not operate correctly if it is exposed to bright light such as direct sunlight.
- 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 in 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.

DUAL
PLAY

How to use the DUAL PLAY

REPEAT button

▶ button

I◀◀ ▶▶I buttons

II button

■ button

The screen display of rear seat monitor

How to play CD

The remote control is operable only when CD is inserted in the disc slot.

Listening to a CD

1 Press ▶.

- It will start playing.

Selecting a song

You can select a song you want to listen to.

1 Press I◀◀ or ▶▶I.

- I◀◀ :Selects previous song
- ▶▶I :Selects next song

Fast-forwarding/rewinding

It is possible to fast-forward/rewind the song played currently.

1 Hold down I◀◀ or ▶▶I.

- I◀◀ :Rewinds
- ▶▶I :Fast-forwards

    The main unit will continue to fast-forward (rewind) until your finger is removed from the switch.

Repeating a song

1 Press **REPEAT** .

- Pressing **REPEAT** once will cause repeating of the song until the function is cancelled.

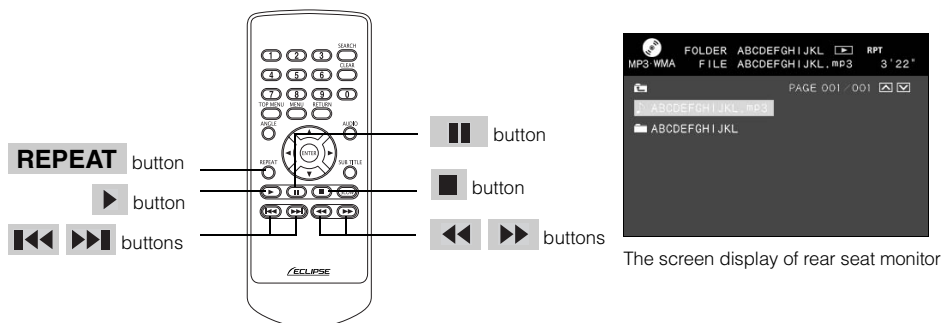 Pressing **REPEAT** again will cancell repeating of the song.

Pausing a song

1 Press **❚❚** .

- Pressing **▶** will restart playing the song.

Stopping a song

1 Press **■** .

How to use the DUAL PLAY

REPEAT button

▶ button

◄◄ ▶▶| buttons

❚❚ button

■ button

◄◄ ▶▶ buttons

The screen display of rear seat monitor

How to play MP3/WMA

The remote control is operable only when CD (MP3/WMA) is inserted in the disc slot.

• For details of MP3/WMA, refer to "About MP3/WMA" (on page 59).

Playing MP3/WMA

1 Press ▶ .

• It will start playing.

Selecting a folder

A folder located within a disc can be selected.

1 Press ◄◄ or ▶▶ .

• ▶▶ :Selects previous folder

• ◄◄ :Selects next folder

Selecting a music file

A music file located within a folder can be selected.

1 Press |◄◄ or ▶▶| .

• |◄◄ :Selects previous song

• ▶▶| :Selects next song

Fast-forwarding/rewinding

It is possible to fast-forward/rewind the song played currently.

1 Hold down $\blacktriangleleft\blacktriangleleft$ or $\blacktriangleright\blacktriangleright\mathsf{I}$.

- $\blacktriangleleft\blacktriangleleft$:Rewinds

- $\blacktriangleright\blacktriangleright\mathsf{I}$:Fast-forwards

    The main unit will continue to fast-forward (rewind) until your finger is removed from the switch.

Repeating the same music file

1 Press **REPEAT**.

- Pressing **REPEAT** once will cause repeating of the song until the function is cancelled.

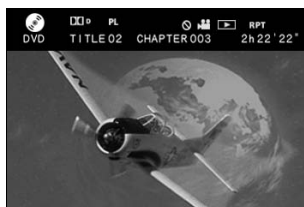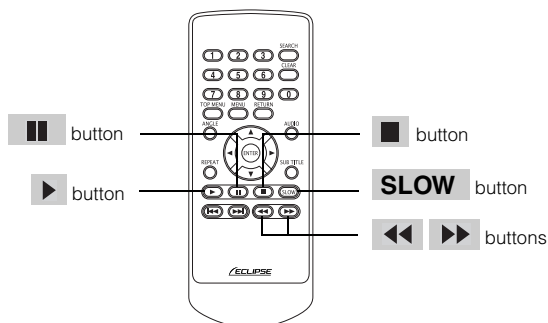   Pressing **REPEAT** again will cancell repeating of the song.

Pausing a song

1 Press $\blacksquare\blacksquare$.

- Pressing $\blacktriangleright$ will restart playing the song.

Stopping a song

1 Press $\blacksquare$.

DUAL
PLAY

How to use the DUAL PLAY

■■ button

■ button

▶ button

SLOW button

◀◀ ▶▶ buttons

The screen display of rear seat monitor

How to play DVD

The remote control is operable only when DVD is inserted in the disc slot.

Watching a DVD

1 Press ▶ .

• It will start playing.

Fast-forwarding/rewinding

It is possible to fast-forward/rewind the video played currently.

1 Hold down ◀◀ or ▶▶ .

• ▶▶ :Rewinds

• ◀◀ :Fast-forwards

    The main unit will continue to fast-forward (rewind) until your finger is removed from the switch.

Playing the video in slow motion

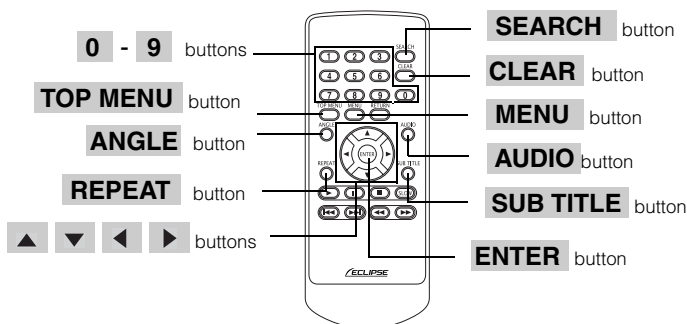**1** Press **SLOW** .

• Pressing ▶ will cancel the slow motion.

Pausing the video

1 Press ▐▐ .

• Pressing ▶ will restart playing the video.

Stopping the video

1 Press ■ .

How to use the DUAL PLAY

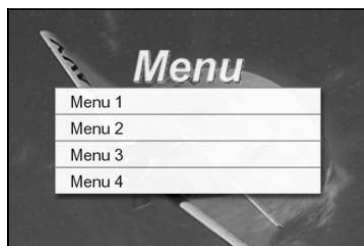|	
0 - **9** buttons	**SEARCH** button
TOP MENU button	**CLEAR** button
ANGLE button	**MENU** button
REPEAT button	**AUDIO** button
▲ ▼ ◀ ▶ buttons	**SUB TITLE** button
	ENTER button

Operating the disc menu

It is possible to use the menu recorded on the disc.

1 Press **MENU** or **TOP MENU** .

- The disc menu or the TOP MENU screen will be displayed.

2 Press ▲ , ▼ , ◀ or ▶ to select the video to play.

3 Press **ENTER** .

Selecting the video

A video that you want to watch can be searched by its title or chapter.

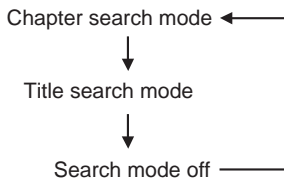### *Searching a video by chapter*

■ Searching a video by manually

1 Press ⏮ or ⏭.

- ⏮ :Selects previous chapter
- ⏭ :Selects next chapter

■ Searching a video by chapter number

1 Press **SEARCH** to enter the chapter search mode.

- The chapter number entering screen will be displayed.
- Each time the **SEARCH** is pressed, the search mode will be switched in the order shown below.

CHAPTER : 3

```
Chapter search mode ◄─────┐
        ↓                 │
   Title search mode       │
        ↓                 │
   Search mode off  ───────┘
```

2 Use a numeric keypad (**0** to **9**) to enter the chapter number.

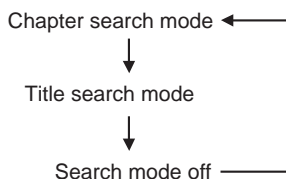- If you have made a mistake, press **CLEAR** to delete the number that you have entered.

3 Press **ENTER** .

DUAL PLAY

How to use the DUAL PLAY

Searching a video by title number

1 Press **SEARCH** to enter the title search mode.

- The title number entering screen will be displayed.

- Each time the **SEARCH** is pressed, the search mode will be switched in the order shown below.

TITLE : 1

Chapter search mode ◄────┐
        ↓   │
Title search mode   │
        ↓   │
Search mode off ─────────┘

2 Use a numeric keypad (**0** to **9**) to enter the title number.

- If you have made a mistake, press **CLEAR** to delete the number that you have entered.

3 Press **ENTER** .

Repeating the same chapter

1 Press **REPEAT** .

- Pressing **REPEAT** once will cause repeating of the video until the function is cancelled. Pressing **REPEAT** again will cancell repeating of the video.

Switching between screen display and audio

It is possible to change the language for subtitles, the language for audio and the display angle for the video being played.

Switching the video angle

When several angles of a scene are recorded on a disc, the angle can be switched.

1 Press **ANGLE** .

- The angle number will be displayed.

- Each time the **ANGLE** is pressed, the angle number will change and the angle of video will be switched.

Switching subtitle languages

When subtitles in several languages are recorded on a disc, the subtitles can be switched.

1 Press **SUB TITLE** .

- The subtitle number will be displayed.

- Each time the **SUB TITLE** is pressed, the sub title number will change and the sub title language will be switched.
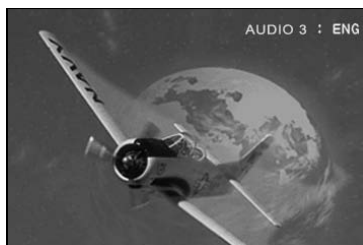

Switching dubbed audio language

When dubbed voices in several languages are recorded on a disc, the voices can be switched.

1 Press **AUDIO** .

- The audio number and language will be displayed.

- Each time the **AUDIO** is pressed, the audio number will change and the language of voices being played will be switched.

DUAL
PLAY

How to use the DUAL PLAY

Watching a restricted DVD

When a restricted DVD is inserted, the password entering screen is displayed. Enter the password to watch the restricted DVD.

1 Use a numeric keypad (**0** to **9**) to enter the password.

• If you have made a mistake, press **CLEAR** to delete the number that you have entered.

2 Press **ENTER** .

ATTENTION	• For details of parental restriction and password, refer to "Viewer restriction setting" (on page 97).

MEMO

About the steering wheel switches

On vehicles equipped with steering wheel switches, these easy-access switches can be used to perform the main audio and other operations.

(For details of the steering wheel switch, please contact your local dealer.)

Function names and summaries

Channel selection (radio) switches
Track selection (CD/CD changer,
MP3/WMA mode) switch
Chapter selection (DVD) switch

Volume switch

Mode selection switch
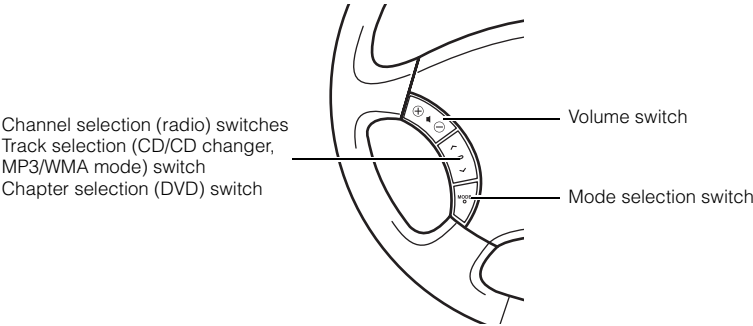
Common operations

Switch	Name	Function	Explanation of operation
(+) (−)	Volume switch	Each momentary actuation of these switches changes the volume one step. Hold a switch down for a continuous volume change.	(+): Volume UP (−): Volume DOWN
(MODE)	Mode selection switch	• When the power is OFF, pressing this switch turns it ON. • The mode changes. FM1 → FM2 → FM3 → CD → MP3/WMA → (CD changer) → DVD → (VTR) → (iPod) → AM → return to FM1 • Press the switch until it beeps to turn the power OFF.	Each time **(MODE)** is pressed while the power is ON, the mode changes.

(   ) : Optional

Radio operations

Switch	Name	Function	Explanation of operation
(∧) (∨)	Channel selection switch	• Calls up the preset broadcast channels in order. • Pressing the switch until it beeps starts automatic channel selection.	Pressing (∧)/(∨) briefly: Used to select the next (previous) preset channel Pressing (∧)/(∨) for longer: Starts automatic channel selection.

CD player operations

Switch	Name	Function	Explanation of operation
(∧) (∨)	Track selection switches	Selects the next track or previous track or beginning of the current track.	(∧): Used to select the next track. (∨): Used to select the previous track.

MP3/WMA Player operations

Switch	Name	Function	Explanation of operation
(∧) (∨)	Track selection switches	• Selects the next file or previous file. • Pressing the switch until it beeps to go to the next folder or previous folder.	Pressing (∧)/(∨) briefly: Used to select the next (previous) file Pressing (∧)/(∨) for longer: Used to select the next (previous) folder

DVD operations

Switch	Name	Function	Explanation of operation
(∧) (∨)	Chapter selection switches	Selects the next chapter or previous chapter.	(∧): Used to select the next chapter. (∨): Used to select the previous chapter.

Steering
Wheel Switch

About the steering wheel switches

CD changer operations

Switch	Name	Function	Explanation of operation

(∧) (∨)	Track selection switches	• Selects the next track or previous track or beginning of the current track.
		• Press the switch until it beeps to go to the next disc or previous disc.
			Pressing (∧)/(∨) briefly:
			   Used to select the next track or previous track.
			Pressing (∧)/(∨) for longer:
			   Used to select the next disc or previous disc.

MEMO

How to use an optional remote control (RMC105)

⚠️ **Caution**	**Precautions in use of the remote control** • Be careful when handling the remote 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 directly at the remote control light receptor. • The light receptor may not operate correctly if it is exposed to bright light such as direct sunlight. • 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 in 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.

📖 **ATTENTION**	TU, DISC and AUX buttons do not work.

120

Remote-Control light receptor

PWR button

◀)) button

MUTE button
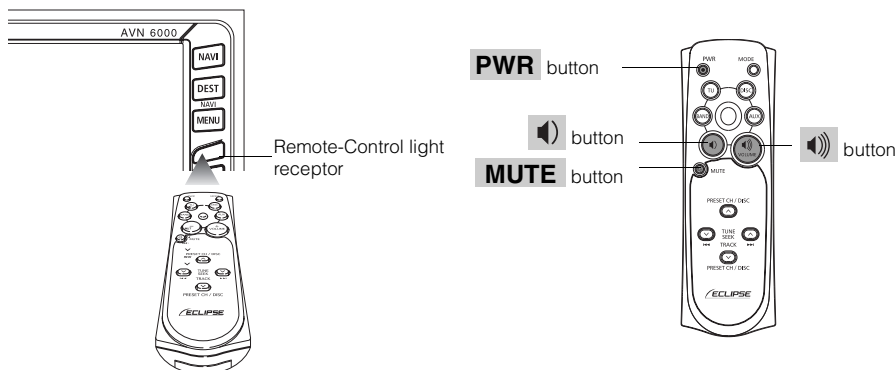
◀) button

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 will be restored.

1 Press **PWR**.

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

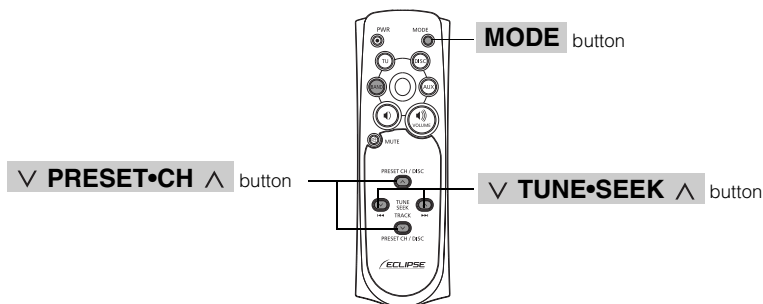| ATTENTION | When the main unit is shut down, the remote control will not work. |

Adjusting the audio volume

1 Press ◀)) or ◀).

- ◀)) button: Increases the volume.

  ◀) button: Decreases the volume.

Muting the Volume

Press **MUTE** to cut the volume or restore it instantly.

Remote control

How to use an optional remote control (RMC105)

MODE button

∨ **PRESET•CH** ∧ button

∨ **TUNE•SEEK** ∧ button

Switching playback modes

1 Press **MODE** .

• Press the button to switch modes in the following sequence:

AM → FM → CD (MP3/WMA) → CD Changer → DVD → VTR → iPod

How to play the tuner

Select the tuner mode first.

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 ∨ **TUNE•SEEK** ∧ .

• ∧ 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 the Section "Saving radio stations" on page 47)

1 Press ∨ **PRESET•CH** ∧ .

• ∧ button: Select the next higher number preset button.

∨ button: Select the next lower number preset button.

BAND button

∨ **DISC** ∧ button

⏮ TRACK ⏭ button
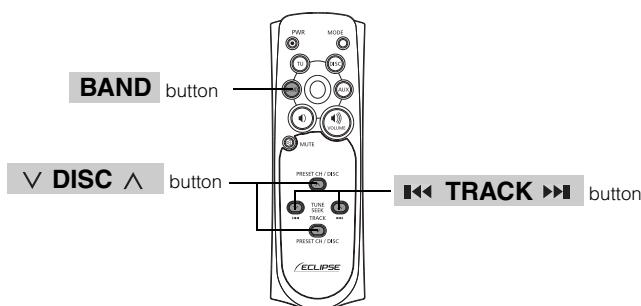
How to play CDs

Switching CD Changer modes

Select the CD Changer mode first.

1 Press **BAND** .

• When two CD changers are connected, press **BAND** to change modes from CD changer 1 → CD changer 2.

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

Select the CD or CD Changer mode first.

1 Press **⏮ TRACK ⏭** .

• **⏭** button: Skips to the next track.

  ⏮ button: Returns to the beginning of the track being played. (Press repeatedly to move to previous tracks.)

> **ATTENTION**
>
> Hold **⏭** down to fast forward, or **⏮** to rewind through the track being played.

Skipping to the next or previous disc

Select the CD or CD Changer mode first.

1 Press ∨ **DISC** ∧ .

• **∧** button: Selects the next higher number disc.

  ∨ button: Selects the next lower number disc.

Remote
control

How to use an optional remote control (RMC105)

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.
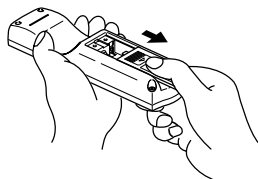
2 Install the two batteries provided into the compartment as illustrated.
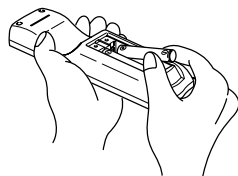
3 Return the back cover into place by sliding it in the direction indicated by the arrow.
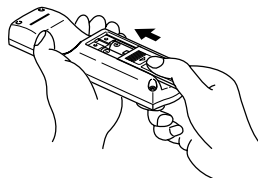
📖 **ATTENTION**
- The battery life is approximately one year. If the remote control unit does not operate correctly or if the button lamp gets dim, replace the batteries.
- Be sure to orient the batteries correctly so that the positive and negative poles match the diagram.
- Do not use one new battery 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.

MEMO

Information you should know

If one of these messages appears

If any of the following messages are displayed, check the equipment while referring to the Cause and Corrective action columns.

Messages	Cause	Corrective action
CD SEEK	The CD changer is searching for discs when a magazine has been set in the CD changer.	Wait until the unit has finished identifying the type of disc.
CD DOOR OPEN	The door of the CD changer is open.	Close the door of the CD changer.
CHECK DISC	The CD/MP3·WMA/DVD is dirty or is upside down.	Clean the disc if it is dirty. Insert the disc correctly if it is upside-down.
NO DISC NO CD	There is no disc in the CD/MP3·WMA/DVD player or CD changer.	Load a music disc (1).
CD ERROR DVD ERROR DISC ERROR	The CD/MP3·WMA/DVD player or CD changer is not operating for some reason.	Eject the disc.
CD ERROR DVD ERROR DISC ERROR	The temperature of the CD/MP3·WMA/DVD player or CD changer has become unusually high.	Without performing any other operations, wait until the temperature comes down (2).
NO CD MAGAZINE	There is no magazine in the CD changer.	Load a magazine.
CD ◯◯ CHECK	The ◯◯th CD in the CD changer cannot be read.	Check for a properly loaded music CD.
PASS CODE INCORRECT	This message is displayed when the pass code that has been entered is not correct.	Enter the correct pass code.
PARENTAL LOCK ENABLED	Viewing restrictions are enabled.	Change the setting for viewing restrictions and start again. (Refer to page 97.)
CURRENTLY THIS FUNCTION IS DISABLED	A function that has been disabled was selected with the menu.	Follow the directions on the screen and start again.
CURRENTLY THIS FUNCTION IS DISABLED	A function that cannot be used while the vehicle is in motion was selected.	Stop the vehicle.
INVALID CODE	A number not supported was input for selecting a language code.	Input a valid language code.
REGION CODE ERROR	The region code (controlled region for playback) of the disc isn't acceptable.	Check that the DVD has a region code that can be played on this equipment. (Refer to page 78.)
REQUESTED CHAPTER OR TITLE NOT FOUND	The selected chapter/title does not exist.	Select a chapter/title that is on the disc.

1: If the unit will not work after the disc is ejected, contact your local retailer.

2: If this happens, wait for a while. When the temperature inside the equipment returns to normal, the message will disappear and playback will start. If the message does not disappear after a long period of waiting, contact the place of purchase.

Before asking for repairs

Slight differences in operation can sometimes be mistaken for malfunctions, so check the following table before asking for any repairs.

If the following fail to solve the problem, contact the place of purchase.

Problem	Possible reason	Corrective action
The screen is dark for a brief period when the power is turned on at low temperatures.	This is a characteristic of LCDs.	This is not a malfunction. Wait for a brief period.
The display is distorted for a brief period after the power is turned on.	This is a characteristic of LCD backlighting.	This is not a malfunction. The display will stabilise after a brief period.
No sound comes out.	Volume is poorly adjusted or MUTE is functioning.	Press the volume switch and check volume. Or cancell MUTE.
Sound comes out of only one side (left or right, front or back).	A speaker wire is disconnected.	Check the connections of the speaker wires.
	Volume is poorly adjusted.	Check the balance and fader adjustments.
Sound quality does not change even after making adjustments.	The adjusted audio quality is not included in the radio broadcast or disc.	Check by changing the radio station or disc.
A CD/DVD will not go into the deck.	Power is not turned on.	Turn the vehicle ignition switch to [ACC] or [ON].
	A disc is already inserted and you are trying to insert a second disc.	Eject the previously inserted CD/DVD and insert the preferred CD/DVD.
A CD/DVD cannot be played.	There is water condensation in the equipment.	Do not use the equipment for a while and then try using it again. (Refer to pages 17.)
	There is a large scratch or warp in the CD/DVD.	Insert a different CD/DVD.
	The CD/DVD is very dirty.	Clean the CD/DVD. (Refer to page 18.)
	The CD/DVD is upside down.	Insert the CD/DVD with the proper orientation.
	A non-supported type of CD/DVD has been inserted.	Insert a CD/DVD that is supported by the deck. (Refer to pages 17.)
A **CD**CHANGER1 / **CD**CHANGER2 is not displayed on the screen.	The CD changer is not completely connected.	Check the connections to the CD changer.
Audio is output, but not video.	The screen has been turned off with the screen OFF button.	Press **CONT** or **NAVI**. (Refer to page 40.)
Audio is output, but not DVD video. (With vehicle stopped.)	The parking brake has not be set.	Set the parking brake.
Neither video nor audio is output.	The vehicle ignition switch has not been turned on.	Turn the vehicle ignition switch to [ACC] or [ON].
	The connection wires and cables are not completely connected.	Check the connections to each connection wire and cable.
There is a point of light on the display.	At least 99.99% of the pixels on the LCD panel are effective, but it is possible that 0.01% of the pixels may not light or may stay lighted.	This is not a defect, so please use the equipment in this condition.

Others

Products equipped with Dolby Digital

Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Products equipped with Macrovision

This unit includes copyright protection technology used in accordance with US patents and other intellectual property rights owned by Macrovision Corporation and other entities. Use of this copyright protection technology requires approval from Macrovision Corporation and the technology must not be used for audiovisual purposes aside from general household use without special approval from Macrovision Corporation. Modification and disassembly of this technology is prohibited.

Glossary

CD-R **(Compact Disc Recordable)**	This is a disc that can only be recorded once. Recorded data cannot be deleted. There are two types of CD-R, one having capacity of 650MB (74 minutes of music), the same as a regular CD, and the other having capacity of 700MB (80 minutes of music).
CD-DA **(Compact Disc Digital Audio)**	This disc is the standard for recording and playing of music data. One track is recorded with one song, and a maximum of 74 minutes can be used with the CD.
CD-RW **(Compact Disc ReWritable)**	This disc uses a phase transformation method that enables recording and deleting of data as many times needed. Capacity is 700MB (80 minutes of music).
EQ (equaliser)	This enables setting of stronger or softer playing of sounds throughout the high to low range of the sound. Levels can be adjusted to personal preference, enhancing enjoyment of the music.
MP3 **(MPEG-1 Audio Layer-3)**	"MP3" is the abbreviation for "MPEG Audio Layer 3," which is the standard format for compression of audio data. MP3 technology compresses sound in the range inaudible to the human ear, producing a file one tenth the size of the original.
LPCM **(Linear PCM)**	This is an abbreviation for Linear Pulse Code Modulation, a signal recording method used with music CDs. A music CD is recorded at 44.1kHz/16 bit, but a DVD is recorded at 48kHz/16 bit ~ 96kHz/24 bit, enabling a DVD to be played with higher sound quality than a music CD.
MPEG	This is an abbreviation for Moving Picture Experts Group and is pronounced "empeg". It is the international standard for moving image compression. With DVDs, this method is also used to compress and record digital audio.
Copy Control CD	This is a CD that has controls for preventing computers from copying and ripping (taking audio information recorded on a compact disc and using it as data to create a file).
UDF **(Universal Disc Format)**	This is one format for use with optical discs not reliant on the OS. It is used with media such as DVD and CD-RW.
Track	The single division for a song on a music CD is called a track.

Glossary

Viewing Restriction	This is a DVD video function that "Restricts playing of discs that support viewing restrictions, in accordance with the regulated levels of each country." Restrictions differ by DVD video and may completely prevent playing of the video or may skip or insert alternate scenes for extreme scenes.
Title	This is the largest unit for divisions of video or songs recorded on a DVD video. Usually a single movie is treated as a title by video software and a single album (or song) is treated as a single title by music software. The consecutive numbers attached to titles are called title numbers.
Chapter	This is a unit for divisions of video or songs recorded on a DVD video, but it is a smaller unit than a title. A single title is made up of several chapters, and the consecutive numbers attached to chapters are called chapter numbers.
Multi-Angle	This is one feature of DVD video, where viewpoints of the same scene are changed by recording from several different angles (camera positions), allowing the viewer to select the preferred angle.
Multi-Language	This is one feature of DVD video, where the same scene is recorded with several different languages and subtitles, allowing the viewer to select the preferred language.
Region Code	DVD players and DVD discs have a region code that enables playing by geographic marketing regions, and a disc cannot be played if the number recorded on the disc is not included in the region codes of the player. Refer to page 78 for details on region codes.

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