Warnings and caution signs, illustrated below, are posted throughout this manual as well as on the AVN50D. 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.



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.

# Table of Contents

# Introduction

How to	use this manual	10
Features	s	12
Before ι	using the main unit	15
Ab	out discs	17
	About playable discs	
	About handling discs	
	About new discs	
	About rental discs	19
	About specially shaped discs	19
	About disc accessories	19
Ab	out the LCD panel	19
Basic	operation	
	ng mode	
Sw	vitching the mode	
	Displaying operation screen	20
Operation	on screen of each mode	21
Adjustin	ng the volume	22
Ad	ljusting main volume	22
Adjustin	ng sound quality	23
Se	etting DSP (acoustics)	24
	DSP mode setting	
	Adjusting, saving DSP (acoustics)	
	Resetting DSP (acoustics) levels	25
Ad	ljusting EQ (equalizer)	26
	Setting sound quality	
	Adjusting and saving equalizer (EQ) patterns	
	Resetting EQ patterns	
	etting POS (position selector)	
	ljusting volume balance	
Se	etting the BEEP tone	30

Setti	ng sound       30         ng LOUDNESS       31         ing subwoofer level       31
Setting th	ne background screen
Setti	ng the wallpaper
Adjusting	the background screen
Setti	ng the opening screen
Adjusting	g/setting the screen
	Adjusting image adjustment screen
	se the AM / FM radio
Sele	ening to the AM/FM radio
Turn	Selection using preset switches       39         ng radio stations       40         Saving manually       40         Saving with AUTO.P       40         Changing stations saved by AUTO.P       40         sing off the radio       42
	ng radio stations       40         Saving manually       40         Saving with AUTO.P       40         Changing stations saved by AUTO.P       40

D	aving radio stations
How to	use the SIRIUS satellite radio 46
C C Se	stening to SIRIUS satellite radio       46         heck the SIRIUS ID       46         hanging the SIRIUS band       47         electing the channel you want to listen to       47         Selecting from the available categories       47         Selecting a channel by direct input       47         isplaying information about the current broadcast       48         urning off the SIRIUS       48
How	to operate the CD player
How to	use the CD player50
Si Fi Si Ri Pl	stening to a CD       50         electing a song       50         ast-forwarding/rewinding       51         earching for a song       51         epeating a song       51         aying songs in random order       51         urning off the CD player       51
How	to operate the MP3 player
How to	use the MP3 player 52
Si Fi C	aying MP3. 53 electing a music file 53 Selecting with file change switch 53 Selecting with TUNE/TRACK button 53 east-forwarding/rewinding 54 hanging display of the current level 54 esplaying the current level 54

	sic file54
Repeating the same	e music file
Playing songs in ra	ndom order
About display of file	information
Displaying fo	lder/file names56
Displaying fil	e information
Turning off the MP3	B player
About MP3	57
Playable MP	3 file standards
ID3 tags	57
Media	
Format of dis	cs
File names .	
Multi-session	s
, ,	
	time display
	r of MP3 file/folder names
	MP3 files
_	from Internet MP3 music sites 60
Converting C	D music to MP3 files 60
	D-R/CD-RW
	D-R/CD-RW
When playing	
When playing How to opera	g back CD-R/RW
When playing  How to operate  How to use the CD of	te the CD changer
How to operation to use the CD continued to a CD.	te the CD changer  hanger
How to operation to use the CD of Selecting a song.	te the CD changer  hanger
How to operated with the control of	te the CD changer  hanger 62 62
How to operated with the control of	te the CD changer  hanger 62  changer 62  vinding 62
How to operated with the control of the control operated with the cont	te the CD changer  thanger 62  changer 62  vinding 62  63
How to operare  How to use the CD of the color of the col	te the CD changer  thanger
How to operare  How to use the CD of the control of	te the CD changer  thanger
How to operated with the control of the control operated with the cont	te the CD changer   62   62   63   63   64   65   65   65   65   65   65   65
How to operated with the control of the control operated with the cont	te the CD changer   62   62   63   63   63   64   65   65   65   65   65   65   65
How to operare  How to use the CD of the control of	te the CD changer  thanger
How to operare  How to use the CD of the control of	te the CD changer  thanger 62  vinding 62  vinding 62  ra song 63  ra a CD 63  or CD 63  e current song 63  e current CD 63
How to operary  How to use the CD of	te the CD changer  thanger

# How to operate the DVD player

Befor	re using the DVD player	66
	DVD video characteristics	66
	About Multiple Languages	66
	About Multiple Angles	
	About Subtitles	
	About discs	67
	About playable discs	67
	About region codes of playable discs	68
	About marks displayed on discs	
	About DVD disc structure	70
	About flow of operations	71
How	to use the DVD player	72
	Watching a DVD	72
	Operating the video	
	Playing the video	
	Fast-forwarding/rewinding	73
	Pausing the video	74
	Stopping the video	74
	Operating the disc menu	75
	Turning off the DVD	75
	Searching for a desired chapter	76
	Searching by chapter	76
	Searching by title number	76
	Searching by menu number	
	Changing the touch switch display	
	Turning off the touch switches	
	Changing the touch switch display locations	
	Switching between screen display and audio	
	Switching the video angle	
	Switching subtitle languages	
	Switching dubbed audio language	
	Setting the DVD player.	
	Setting the audio language	
	Subtitle language setting	
	Menu language setting.	
	Setting display of multi-angle mark (angle selection mark) .  Viewer restriction setting	
	Changing video output	

Tabl	e of language codes
How to	o operate the VTR
How to us	se the VTR
	ving the VTR
How to	o use the steering wheel switch
About the	e steering wheel switches92
Fund	ction names and summaries       92         Common operations.       92         Radio operations.       93         CD player operations.       93         SIRIUS satellite radio tuner operations       93         MP3 Player operations.       93         DVD operations       94         CD changer operations       94
How to	o use an optional remote control
How to us	se an optional remote control (RMC105) 96
Adju Swit How How	sting the power on/off

### For reference

Infor	mation you should know	 102
	If one of these messages appears  Before asking for repairs	
Othe	rs	 105
	Products equipped with Dolby Digital	
Glos	sary	 106
Index	by topic	 108
	About screen and sound adjustment  Using AM/FM radio  Usage when an HD RADIO (IBOC) tuner is connected  Usage when a SIRIUS satellite radio tuner is connected.  About using the CD player/CD changer.  About using the MP3 player.  About using the DVD player.  About using the VTR  Useful functions  When something isn't clear	 . 108 . 109 . 109 . 109 . 110 . 111
INDE	<b>x</b>	 114

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.

# MEMO



### 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

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 A or V at the right of the screen while in the acoustics mode to be adjusted.
  - There are five + and five adjustment levels available.
- Touch the switch for the acoustics mode that has been adjusted until a beep is heard.



#### Operation procedure

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

24

#### Resetting DSP (acoustics) levels

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



• The acoustics level will be returned to default value.



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.

25

### **Features**

# DVD player with sharp video and dynamic sound (Page 66)

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.)



# MP3 player for music discs having 1/10 compression (Page 52)

Plays CD-R (recordable) discs that have been compiled in MP3 format. (MP3 is a format that enables recording of the songs of several albums onto a single CD-R.)



# 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 32)

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 38)

Enables reception of analog AM/FM radio broadcasts.

AM MODE 1318kHz 11:43 1 530 4 1400 2 600 5 1600 DSP 3 1000 6 1710 AUTO, P POS AM radio operation screen

• HD RADIO (IBOC) tuner (Page 43)

Enables reception of HD RADIO (High Definition Radio) broadcasts.



HD RADIO (IBOC) AM operation screen

### Features

#### SIRIUS tuner (Page 46)

SIRIUS is a satellite broadcasting service offering music, news, sports and other programming with CD-quality sound; This is a paid subscription service.



SIRIUS operation screen

### System additions

#### CD changer (Page 62)

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.



#### VTR (Page 90)

Connecting a VTR deck enables watching of video tapes.



# Easy-access audio controls on the steering wheel (Page 92)

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

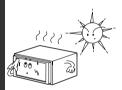




 Be very careful and pay full attention to safety when operating the audio controls while driving, otherwise accidents may occur. Also be sure to set volume so that you can still adequately hear sounds outside the vehicle. Improper use can contribute to a traffic accident.

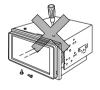


 Never continue to use the system if it is malfunctioning in any way. If smoke, abnormal noises or abnormal odors are noticed, turn off the power immediately.
 Immediately turn off audio in such situations.



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.



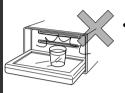
Do not disassemble or modify the main unit.
 The main unit has a precisely designed structure, so consult your retailer in the event of any unsatisfactory performance.

# Before using the main unit





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.

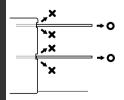


 Do not insert any objects other than discs into the disc slot.

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**



- 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.













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



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 finalized 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 finalized 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 see through discs, since they may not be accepted and ejected properly and may not play properly.

# Before using the main unit



#### 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-colored 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 center to the edge.

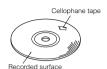
#### About new discs



 You may notice that some brand new discs are rough around the center 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.

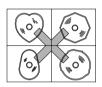


#### About rental discs



 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 (stabilizers, protective seals, laser lens cleaners, etc.) sold for "improving sound performance" or "protecting CDs." The changes in CD thickness or outside dimensions made by these accessories may cause problems in the player.



 Please be sure NOT to attach any ring-shape protector (or other accessory) to your discs. Those protectors are commercially available and said to protect 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**



- 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 96 for instructions on operation of the remote control.

### Switching the mode

- 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.





FΜ VICTORIAPARK DR MONICA FREEWA INGTON BLVD Map view Route Mark

On-screen display

### Displaying operation screen

Press **CONT**.



# Operation screen of each mode

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

AM radio operation screen



HD RADIO (IBOC) operation screen (optional)



CD player operation screen



DVD player operation screen



VTR operation screen (optional)



FM radio operation screen



SIRIUS operation screen (optional)



MP3 player operation screen



CD changer 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 canceled.

# Adjusting the volume

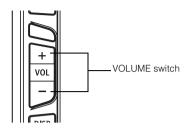
### **Adjusting main volume**

Press the VOLUME switch.

Pressing + will increase volume.

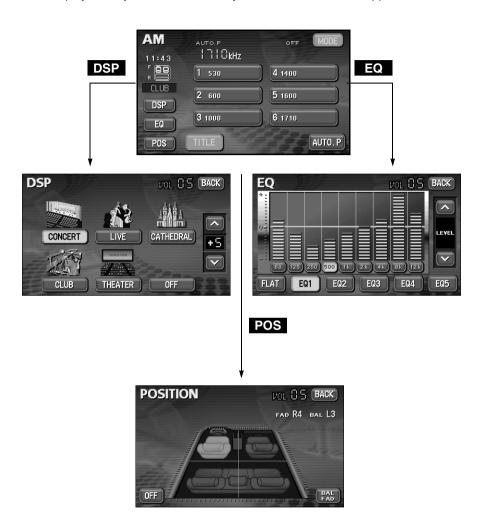
Pressing - will decrease volume.

 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.



# 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.





In the DVD mode, display the sound quality adjustment switches by pressing from the operation modes, and then **SET**. In the VTR mode display them either by pressing **CONT** or by touching the screen.

# 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

- 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)

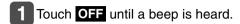
The factory set DSP (acoustics) level for each mode can be adjusted to preference and saved.

- 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.



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



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

# Adjusting sound quality

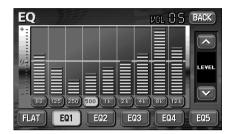
### **Adjusting EQ (equalizer)**

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

#### Setting sound quality

Each factory set equalizer pattern can be selected and adjusted to preference.

- Touching the touch switch brings up the equalizer mode screen as shown in the table.
  - After making settings, touch BACK.
     The equalizer mode adjustments will be saved and the system will return to the previous operation screen.



Touch switch	Equalizer mode types
FLAT	No EQ correction
EQ1	Effective pattern for POPS
EQ2	Effective pattern for ROCK
EQ3	Effective pattern for JAZZ
EQ4	Effective pattern for CLASSIC
EQ5	Effective pattern for VOCAL



The default setting is

[] S BACK

### Adjusting and saving equalizer (EQ) patterns

ΕO

FLAT

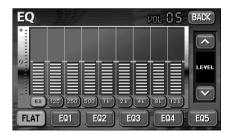
Apart from these preset equalizer patterns, you can adjust and record other equalizer patterns to suit your own sound preferences.

- Touch the screen and slowly draw the image of the preferred equalizer curve with your finger.
- 2 To make fine adjustments, touch the switch for the frequency to be adjusted.
- Touch or at the right of the screen to adjust.
- 4 Choose from touch switches **EQ1** to **EQ5** for saving the settings and then touch and hold the switch until a beep is heard.
  - The saved equalizer curve can be used for other settings.
  - After making settings, touch BACK. The equalizer mode adjustments will be saved and the system will return to the previous operation screen.

#### Resetting EQ patterns

Currently saved equalizer patterns and factory set equalizer patterns can be returned to the default values.

- Touch **FLAT** until a beep is heard.
  - The equalizer pattern will be reset to default values (factory default values).



EQ2

EQ1

# Adjusting sound quality

### **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 color 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 optimized for driver's seat		Acoustics optimized for both front seats
Acoustics optimized for passenger's seat			Acoustics optimized for rear seats



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

### Adjusting volume balance

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

Touch BAL • FAD on the POSITION setting screen to display the volume balance adjustment screen.



- Touch the screen at the preferred balance point.
  - To make fine adjustments, touch \( \Lambda \),



- Touching **CENTER** will set the volume balance to the center 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 position again, touch and repeat the steps above.







- 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 center value, and <, >, ∧ or ∨ must be pressed again to continue adjustment.

# Adjusting sound quality

### **Setting the BEEP tone**

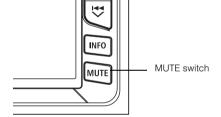
The guide tone that is emitted when touching a panel switch or touch switch can be set to on or off

- 1 Touch SETTING on the INFORMATION screen.
- 2 Touch ON or OFF of GUIDE TONE.
  - The pressed touch switch will become green.
  - Touching **OFF** will cancel (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.





The MUTE function will be canceled on pressing the + VOLUME switch (it is unaffected by pressing the - switch).

### **Setting LOUDNESS**

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

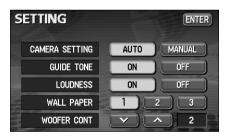
- 1 Touch **SETTING** on the INFORMATION screen.
- 2 Touch ON or OFF of LOUDNESS.
  - The pressed touch switch will become green.
- 3 Touch ENTER.



### Setting subwoofer level

When a woofer is connected, the preferred output level for audio can be set. To connect a woofer, an optional cable is required.

- Touch **SETTING** on the INFORMATION screen.
- 2 Touch \( \Lambda \) or \( \V \) of WOOFER CONT.
- 3 Touch ENTER.



# 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

- Touch **SETTING** on the INFORMATION screen.
- Touch 1, 2 or 3 of WALL PAPER.
  - The pressed touch switch will become green and the wallpaper (background) will change.



3 Touch ENTER.

# 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

- 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 center 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]

- 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 canceled.



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/setting the 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
- Touch 

  to strengthen contrast, 

  to weaken contrast.
- BRIGHT
- 1 Touch 🛨 to make lighter, 🖃 to make darker.
- COLOR (for DVD/VTR screen only)
- 1 Touch + to strengthen green color, to strengthen red color.
- TINT (for DVD/VTR screen only)
- $\blacksquare$  Touch  $\blacksquare$  to make tint darker,  $\blacksquare$  to make tint lighter.

### Switching screen mode

- Touch WIDE on DVD or VTR operation screen.
- Touch NORMAL, WIDE1, WIDE2 or WIDE3.
  - This selects the wide mode.
- 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 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).



#### ■ WIDF 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 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.



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.

## How to use the AM / FM radio



## Listening to the AM/FM radio

- 1 Press (SOURCE) MENU .
- 2 Touch AM to receive AM radio, or FM to receive FM radio.



When an HD radio (IBOC) tuner is connected, the standard radio (analog radio) is also controlled through the HD radio tuner. Note that this means the antenna should be connected to the HD radio tuner.

## **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 45 for details on saving stations.



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

## How to use the AM / FM radio

## 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

- 1 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.

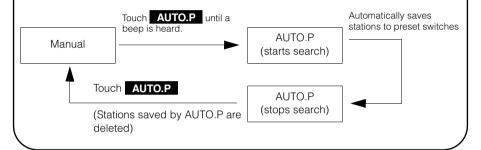
#### Changing stations saved by AUTO.P

- 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.

#### 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 traveling.

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.



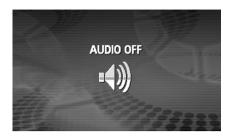


- AUTO.P may not automatically receive stations if radio waves in the surrounding area are weak.
- A station saved by the tuning switch may not match a station saved by AUTO.P even though the signal is received from the same station.
- Due to conditions for receiving radio waves, saved stations may differ 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.

## How to use the AM / FM radio

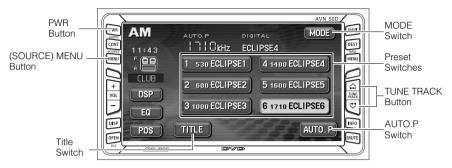
## Turning off the radio

- 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 HD Radio

When an optional HD RADIO (High Definition Radio) tuner is connected, HD RADIO (High Definition Radio) broadcasts can be received.



## Listening to HD RADIO (IBOC)

When receiving HD Radio (High Definition Radio) broadcasts, FM reception has the same quality as a CD, and AM reception has the same quality as conventional FM sound.

Depending on the reception status, HD Radio can also receive analog broadcasts, which means reception is still possible in regions with no digital coverage.

- 1 Press (SOURCE) MENU .
- 2 Touch AM to receive AM radio, or FM to receive FM radio.
  - When an HD RADIO (IBOC) tuner is connected and a digital broadcasting program is received, "DIGITAL" is displayed.
  - When an HD RADIO (IBOC) tuner is connected, the available.



To receive AM/FM analog broadcasting, touch MODE and select "OFF."

## How to use HD 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

- Touch the preset switch that already has a station recorded.
  - Refer to "Saving radio stations" on page 45 for details on saving stations.



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

## Saving radio stations

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

#### Saving manually

Refer to "How to use the AM / FM radio" on page 40.

#### Saving with AUTO.P

Refer to "How to use the AM / FM radio" on page 40.

#### Changing stations saved by AUTO.P

Refer to "How to use the AM / FM radio" on page 40.

## Displaying information about the current broadcast

When receiving an HD RADIO (IBOC) broadcast, information about the current broadcast, such as the name of the radio station, the album, the title of the track, the artist, and the musical genre, can be displayed.

- 1 Touch TITLE.
  - Touch TITLE OFF to return to the operation screen.



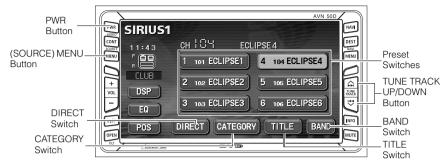
## **Turning off the radio**

- 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 SIRIUS satellite radio

When an optional SIRIUS satellite radio tuner is connected, SIRIUS satellite radio broadcasts can be received.



## Listening to SIRIUS satellite radio

With SIRIUS satellite radio, over 100 channels are available including music, news, and entertainment programs.

You can select the channel you want from 14 categories such as POP and ROCK, or you can select a channel by direct input.

Reception of SIRIUS satellite radio is a paid subscription.

- 1 Press (SOURCE) MENU .
- 2 Touch SIRIUS .

#### **Check the SIRIUS ID**

The SIRIUS ID number is a 12-digit numerical code that is assigned each time the SIRIUS satellite radio tuner is connected

- 1 Touch SIRIUS ID on the INFORMATION screen.
  - A 12-digit numerical code is displayed.



## **Changing the SIRIUS band**

- 1 Touch BAND on the SIRIUS operation screen.
  - The BAND changes.
     [SIRIUS 1] → [SIRIUS 2] → [SIRIUS 3] ... → return to [SIRIUS 1]

## Selecting the channel you want to listen to

#### Selecting from the available categories

- 1 Touch CATEGORY.
- 2 Select the category that you want.
  - Touch \( \Lambda \) or \( \V \) to switch categories.





If the selected category is unobtainable, the blank category button appears.

#### Selecting a channel by direct input

- 1 Touch DIRECT.
- 2 Input a channel.
- 3 Touch ENTER



## How to use the SIRIUS satellite radio

## Displaying information about the current broadcast

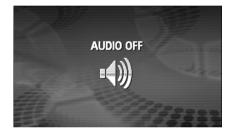
During SIRIUS broadcasts, information including the channel name, the album name, the title, and the artist can be displayed for the current track.

- 1 Touch TITLE.
  - Touch **TITLE OFF** to return to the operation screen.



## **Turning off the SIRIUS**

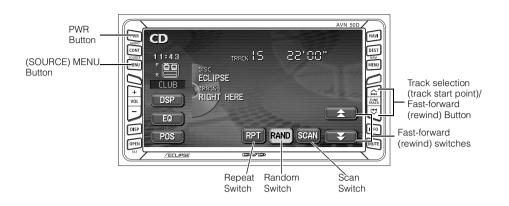
1 Press PWR.



# MEMO



## How to use the CD player



## 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.

- Press ♠ or ♥.
  - (up): Selects next song
    - (down): Selects previous song

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



- 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, or touch and hold 🚖 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.

## Searching for a song

- 1 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 RPT.
  - Touching RPT once will cause repeating of the song until the function is canceled.
     Touching RPT again will cancel repeating of the song.

## Playing songs in random order

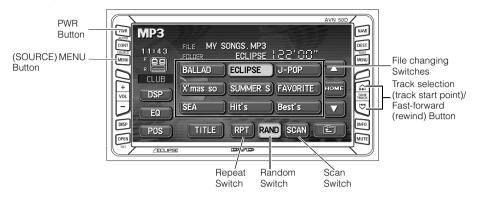
- 1 Touch RAND.
  - Touching RAND will play songs in random order until the function is canceled.
     Touching RAND again will cancel random playing of songs.
  - The song to be played next is randomly selected at the end of current song, so it is
    possible that a single song could end up being played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

## **Turning off the CD player**

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

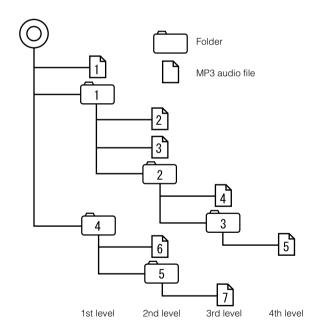
## How to use the MP3 player

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



The following operating procedures are based on this example of MP3 file structure below.

#### **Example of MP3 file structure**



## **Playing MP3**

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.
  - · 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 an MP3 disc.
  - Normally, tracks are played back in the order  $\begin{bmatrix} 1 \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} 2 \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} 3 \\ 4 \end{bmatrix} \rightarrow \begin{bmatrix} 5 \\ 5 \end{bmatrix} \rightarrow \begin{bmatrix} 6 \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} 6 \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 \\ 1$
  - When multiple MP3 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 switch

- 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.

## How to use the MP3 player



- If sound data and MP3 data are mixed on the same disc, only the data recorded in the first session can be played.
- When MP3 is being played, navigation operation will become slower. This is not a malfunction of the system.

## **Fast-forwarding/rewinding**

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

- 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.
  - Eil : 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 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.



Refer to page 52 for an example of MP3 file structure.

When the display shows the folder and files of the second level (2), 3 and 2) as 4 of the third level is being played, touching **HOME** will show the folder and files of the third level (4) and 3).

## Repeating the same music file

- 1 Touch RPT.
  - The file currently being played will be repeated.
  - Setting RPT will cause repeating of the song until the function is canceled. Touching
     RPT again will cancel repeating of the song.

## Playing songs in random order

- 1 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 canceled. Pressing
     RAND again will cancel 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.

## How to use the MP3 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

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



#### Displaying file information

- 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 player

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

#### **About MP3**

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.

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

#### Playable MP3 file standards

Supported standards : MPEG-1 Audio Layer III

• Supported sampling frequencies: 32, 44.1, 48 (kHz)

• Supported bit rate : 32 to 128 (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



Use 128kbps or lower for the MP3 bit rate. If the bit rate exceeds 128kbps, there may be sound cutting in and out during MP3 playback.

#### ID3 tags

MP3 files have an "ID3 Tag" that allows input of 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.

#### Media

Media capable of playing MP3 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.

## How to use the MP3 player

#### Format of discs

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

• Disc format : CD-ROM (MODE 1)

• File format : ISO9660 Level 1 or Level 2

ROMEO system, JOLIET system

MP3 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 (including "." and 3 letter file

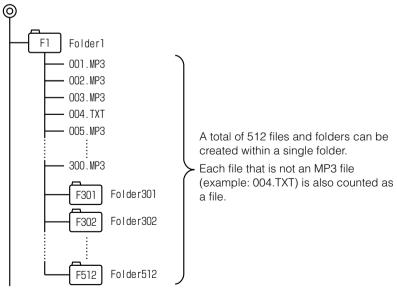
extension)

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

• Number of files/folders possible on a single disc : 512

Each file that is not an MP3 file (files with extensions other than "MP3") is also counted as a file.

#### Configuration example for CD supporting MP3



• A total of 1023 files and folders can be recorded on a single disc.

#### File names

Only files with the MP3 file extension ".mp3" can be recognized as MP3 and played. Be sure to save MP3 files with the ".mp3" file extension.

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

#### Multi-sessions

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

#### Playing MP3

When a disc having MP3 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 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.

When MP3 is being played, navigation operation will become slower. This is not a malfunction of the system.

#### MP3 playing time display

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

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

#### Display order of MP3 file/folder names

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

- 1. MP3 files displayed first, by ascending order of numbers, letters.
- 2. Folders displayed next, by ascending order of numbers, letters.



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

## How to use the MP3 player

## Making and playing MP3 files

MP3 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 music sites

There are many kinds of sites that distribute MP3 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 files

Prepare a computer with commercially available MP3 encoding software (conversion software). (Some encoding programs available on the Internet do not require payment.) Music data files in MP3 format can be made by inserting the music CD into the CD-ROM drive of the computer and following the procedures of the MP3 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 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 (mode 1) for the disc format. Discs recorded with CD-ROM xA (mode 2) cannot be played on the main unit.

#### When playing back CD-R/RW

Insert a CD-R/RW disc having recorded MP3 files. The system will automatically determine whether the disc is a music CD or a CD-R/RW with MP3 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.



- 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 encoding software available, including commercial and freeware programs, 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 files are recorded on a disc, the system may take some time to recognize the disc and it may not play the disc.

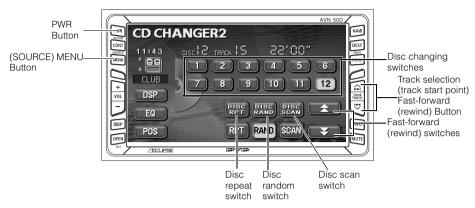
## MP3

## MEMO



## How to use the CD changer

An optional CD changer can be connected and used.



## Listening to a CD

- Press (SOURCE) MENU .
- 2 When only one CD changer is connected, touch CDcH1. When two CD changers are connected, touch CDcH1 or CDcH2.

## 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.

- Touch one of the disc changing switches.
  - The number for the selected CD will change color.

## 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 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.



- 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 CDcH1 / CDcH2.

## 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 DISC RPT.
  - Touching DISC RPT once will cause repeating of the CD until the function is canceled Touching DISC RPT again will cancel repeating of the CD.

## How to use the CD changer

## 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 DISC RAND
  - Touching **DISC RAND** will play songs in random order until the function is canceled. Touching **DISC RAND** again will cancel 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.

# CD changer

# 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 changed.



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.

#### About Subtitles

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

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

## Before using the DVD player

#### About region codes of playable discs

Some DVD discs display a ("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 "1" 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.



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.

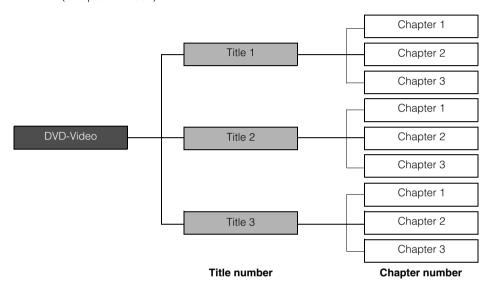
ma	ark	Meaning	
3))		Shows number of voice tracks.	
		Shows number of subtitle languages.	
31		Shows number of filmed angles.	
16:9 LB	4:3	Shows available aspect ratio (television screen horizontal to vertical ratio).  • "16:9" is wide screen, "4:3" is standard screen.	
		Shows playable region code.  • ALL indicates worldwide. A number indicates a specific region code. "1" is the region number for North America.	

## Before using the DVD player

#### About DVD disc structure

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

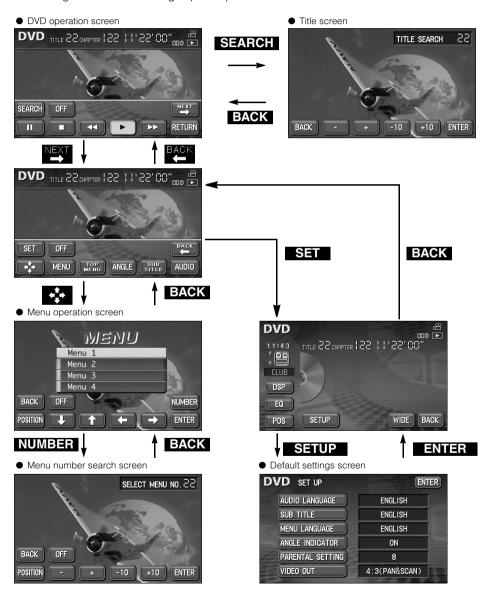
Large segments are called "titles", and each title has a number ("title number"). Title segments are further divided into smaller segments called "chapters", and each chapter has a number ("chapter number").



## **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.



## 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.)



## Watching a DVD

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

- 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





#### Fast-forwarding/rewinding

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

#### Using panel button

- 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 fastforward (rewind) mode when the beep is heard and will continue fastforwarding (rewinding) until your finger is removed from the switch.





- 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 75.)

# How to use the DVD player

### Pausing the video

- 1 Touch III.
  - While paused ( ), briefly touching
     will play in slow motion and touching will play frame-by-frame.



### Stopping the video

Touch .



### Operating the disc menu

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

- Touch ᄧ on the DVD operation screen.
- 2 Touch MENU or TOP MENU.
- 3 Touch 💠.
- 5 Touch ENTER.





# **Turning off the DVD**

- 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



(up): Selects next chapter
 (down): Selects previous chapter





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

- Touch **SEARCH** on the DVD operation screen.
  - The title number input screen will be displayed.
- 2 Input the title number by touching
  - , <del>+</del> , -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 🖭 on the DVD operation screen.
- 2 Touch 💠.



- 3 Touch NUMBER.
  - The menu number input screen will be displayed.
- Input the menu number by touching

  + 1, -10 , +10 .
  - Touching or the changes the menu number by ones.
  - Touching -10 or +10 changes the menu number by tens.
- 5 Touch **ENTER** on the DVD operation screen.





# 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

- 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

- 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.







### 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.
- Touch **ANGLE** when the multiangle mark is displayed.
  - The angle number will be displayed.



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





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

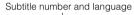
When subtitles in several languages are recorded on a disc, the subtitles can be switched.

- 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.







- 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 🗳 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.







• Each time AUDIO is pressed, the audio language will change in order from among the languages recorded on the disc.

- 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	AUDIO LANGUAGE Sets the language of voices for video playback.	
SUB TITLE	Sets the language of subtitles for video playback.	84
MENU LANGUAGE	ENU LANGUAGE Sets the language of displayed menus.	
ANGLE INDICATOR	Sets display/non-display of multiple angle mark.	86
PARENTAL SETTING	Restricts the types of DVD videos that can be played.	
VIDEO OUT	Sets screen size.	88



Pressing one of the switches that can switch screens ( CONT or

(SOURCE) MENU ) without touching ENTER after changing settings with

the default setting screen will stop playing of the DVD. Touch operation screen to start playback again. (Refer to page 72.)

#### Setting the audio language

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

- 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.



#### Input a code

- Touch OTHER on the AUDIO LANGUAGE setting screen.
- 2 Input a language code.
  - Refer to "Table of language codes" on page 89 for language codes.
- 3 Touch ENTER.



# How to use the DVD player

#### Subtitle language setting

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

- 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

- Touch **OTHER** on the SUB TITLE setting screen.
- 2 Input a language code.
  - Refer to "Table of language codes" on page 89 for language codes.
- 3 Touch ENTER.





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

- Touch **OTHER** on the MENU LANGUAGE setting screen.
- 2 Input a language code.
  - Refer to "Table of language codes" on page 89 for language codes.
- 3 Touch ENTER.



# 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.



- 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.





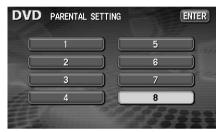
- Language switching cannot be performed if the selected language is not recorded on the disc.
- Setting multi-angle mark display to "ON" will display the multi-angle mark in the upper right corner of the screen when multiple angles are available on the disc.

#### 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.
- Touch the preferred restriction level
- 5 Touch ENTER.







- 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 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.





## 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).



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).



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.

nenu displays.		
Input code	Language	
1001	Japanese	
0514	English	
0618	French	
0405	German	
0920	Italian	
0519	Spanish	
1412	Dutch	
1821	Russian	
2608	Chinese	
1115	Korean	
0512	Greek	
0101	Afar	
0102	Abkhazian	
0106	Afrikaans	
0113	Amharic	
0118	Arabic	
0119	Assamese	
0125	Aymara	
0126	Azerbaijani	
0201	Bashkir	
0205	Byelorussian	
0207	Bulgarian	
0208	Bihari	
0209	Bislama	
0214	Bengali	
0215	Tibetan	
0218	Breton	
0301	Catalan	
0315	Corsican	
0319	Czech	
0325	Welsh	
0401	Danish	
0426	Bhutani	
0515	Esperanto	
0520	Estonian	
0521	Basque	
0601	Persian	
0609	Finnish	
0610	Fiji	
0615	Faroese	
0625	Frisian	
0701	Irish	
0704	Scots-Gaelic	
0712	Galician	
0714	Guarani	
0721	Gujarati	

Input code	Language
0801	Hausa
0809	Hindi
0818	Croatian
0821	Hungarian
0825	Armenian
0901	Interlingua
0905	Interlingue
0911	Inupiak
0914	Indonesian
0919	Icelandic
0923	Hebrew
1009	Yiddish
1023	Javanese
1101	Georgian
1111	Kazakh
1112	Greenlandic
1113	Cambodian
1114	Kannada
1119	Kashmiri
1121	Kurdish
1125	Kirghiz
1201	Latin
1214	Lingala
1215	Laothian
1220	Lithuanian
1222	Latvian
1307	Malagasy
1309	Maori
1311	Macedonian
1312	Malayalam
1314	Mongolian
1315	Moldavian
1318	Marathi
1319	Malay
1320	Maltese
1325	Burmese
1401	Nauru
1405	Nepali
1415	Norwegian
1503	Occitan
1513	Oromo
1518	Oriya
1601	Panjabi
1612	Polish
1619	Pashto
1019	1 451110

1620

oabiiioo	and on coreen
Input code	Language
1721	Quechua
1813	Rhaeto-Romance
1814	Kirundi
1815	Romanian
1823	Kinyarwanda
1901	Sanskrit
1904	Sindhi
1907	Sangho
1908	Serbo-Croatian
1909	Sinhalese
1911	Slovak
1912	Slovenian
1913	Samoan
1914	Shona
1915	Somali
1917	Albanian
1918	Serbian
1919	Siswati
1920	Sesotho
1921	Sundanese
1922	Swedish
1923	Swahili
2001	Tamil
2005	Telugu
2007	Tajik
2008	Thai
2009	Tigrinya
2011	Turkmen
2012	Tagalog
2014	Setswana
2015	Tonga
2018	Turkish
2019	Tsonga
2020	Tatar
2023	Twi
2111	Ukrainian
2118	Urdu
2126	Uzbek
2209	Vietnamese
2215	Volapuk
2315	Wolof
2408	Xhosa
2515	Yoruba
2621	Zulu

## 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.)

To connect a VTR deck to this equipment, an optional connection cable is required.



### 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.

### **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.



- 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.

### 띰

# MEMO

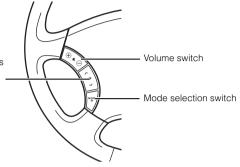


# About the steering wheel switches

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

### Function names and summaries

Channel selection (radio) switches Track selection (CD/CD changer, MP3 mode) switch Chapter selection (DVD) 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	<ul> <li>When the power is OFF, pressing this switch turns it ON.</li> <li>The mode changes.         AM → FM → CD →         MP3 → (CD changer) →         DVD → (VTR) →         (SIRIUS) → return to AM</li> <li>Press the switch until it beeps to turn the power OFF.</li> </ul>	Each time <b>(MODE)</b> is pressed while the power is ON, the mode changes.

( ): Optional

## Radio operations

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

### CD player operations

Switch	Name	Function	Explanation of operation
(^) (v)	Track selection switches		(^): Used to select the next track. (v): Used to select the previous track.

## SIRIUS satellite radio tuner operations

Switch	Name	Function	Explanation of operation
(^) (v)	Channel selection switches	<ul> <li>Selects the next channel or previous channel.</li> <li>Pressing the switch until it beeps to start searching channels within the selected category.</li> </ul>	Pressing (^)/(v) briefly: Used to select the next (previous) channel Pressing (^)/(v) for longer: Starts searching channels within the selected category.

### MP3 Player operations

Switch	Name	Function	Explanation of operation
(^) (^)	Track selection switches	<ul> <li>Selects the next file or previous file.</li> <li>Pressing the switch until it beeps to go to the next folder or previous folder.</li> </ul>	Pressing (\(\right)\)(\(\right)\) briefly: Used to select the next (previous) file Pressing (\(\right)\)(\(\right)\) for longer: Used to select the next (previous) folder

# About the steering wheel switches

## DVD operations

Switch	Name	Function	Explanation of operation
(^) (v)	Chapter selection switches	Selects the next chapter or previous chapter.	<ul><li>(^): Used to select the next chapter.</li><li>(∨): Used to select the previous chapter.</li></ul>

### CD changer operations

Switch	Name	Function	Explanation of operation
(^) (v)	Track selection switches	<ul> <li>Selects the next track or previous track or beginning of the current track.</li> <li>Press the switch until it beeps to go to the next disc or previous disc.</li> </ul>	Pressing (^)/(v) briefly: Used to select the next track or previous track.  Pressing (^)/(v) for longer: Used to select the next disc or previous disc.

# ering Switch

# MEMO



# How to use an optional remote control (RMC105)



#### Precautions in use of the remote control

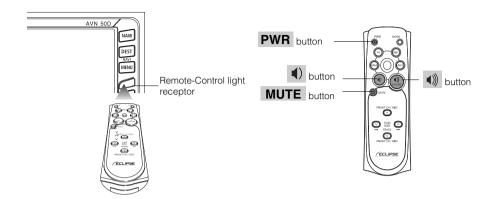
- Be careful when handling the remote control, especially because it is small and light. Dropping or striking it hard may damage it, wear out the battery or cause a malfunction.
- Keep the remote control free of moisture, dust and water. Do not subject it to shock.
- Do not place the remote control unit 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.



TU, DISC and AUX buttons do not work.



### 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.



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

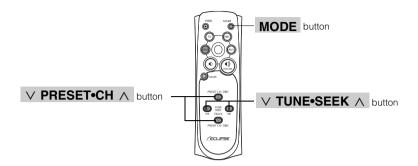
### Adjusting the audio volume

- Press (1) or (1).
  - 1 button: Increases the volume.
    - button: Decreases the volume.

#### Muting the Volume

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

# How to use an optional remote control (RMC105)



# Switching playback modes

- 1 Press MODE.
- Press the button to switch modes in the following sequence:

→ AM → FM →CD(MP3) →CD Changer1 →CD Changer2 →DVD →VTR →SIRIUS -

### How to play the tuner

Select the tuner mode first.

#### Selecting a station (manually or automatically)

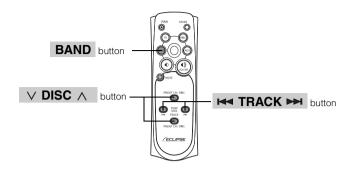
A short press of the button will allow manual station tuning. Pressing for more than one second will start automatic tuning.

- 1 Press ∨ TUNE•SEEK ∧ .
  - A button: Tunes to higher frequency stations.
    - V 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 40)

- 1 Press ∨ PRESET•CH ∧ .
  - $\Lambda$  button: Select the next higher number preset button.
- V button: Select the next lower number preset 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  $\blacksquare$  AND to change modes from CD changer 1  $\rightarrow$  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.)



Hold Mown 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 ∧.
  - $\land$  button: Selects the next higher number disc.
    - V button: Selects the next lower number disc.

# How to use an optional remote control (RMC105)

### Replacing the battery



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.



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.





- 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



Remote

# 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/DVD is dirty or is upside down.	Clean the disc if it is dirty. Insert the disc correctly if it is upsidedown.
NO DISC NO CD	There is no disc in the CD/MP3/ DVD player or CD changer.	Load a music disc (1).
CD ERROR DVD ERROR DISC ERROR	The CD/MP3/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/ 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 Oth 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 87.)
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 68.)
REQUESTED CHAPTER OR TITLE NOT FOUND	The selected chapter/title does not exist.	Select a chapter/title that is on the disc.

Messages	Cause	Corrective action
ANTENNA	The SIRIUS antenna is disconnected.	Check the connection of the SIRIUS antenna.
ACQUIRING	Displayed when the signal is lost (during access).	Try receiving the signal again in the place where there are no obstacles.
CALL888-539-SIRIUS	You are tuned to a valid channel but you are not subscribed to that channel.	Subscribe to SIRIUS. Or, check/change your subscription plan.
SUB UPDATED	Displayed when your channel subscription has been accepted and your status is being updated to allow you to receive the channels.	After this message is displayed, the channels for which you do have a subscription can be received.
INVALID	Displayed when you are tuned to a channel that you cannot receive.	Tune to channels that you can receive.
UPDATING	Displayed while the channel map is being updated.	After this message is displayed, subscribe to SIRIUS. The channels for which you do have a subscription can be received.

- 1: If the DVD player still will not work after the disc is ejected, contact the place of purchase.
- 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.

# Information you should know

## 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 stabilize after a brief period.
No sound comes out.	Volume is poorly adjusted or MUTE is functioning.	Press the volume switch and check volume. Or cancel MUTE.
Sound comes out of only one side	A speaker wire is disconnected.	Check the connections of the speaker wires.
(left or right, front or back).	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 CD/DVD will not go into the deck.	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.
	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.)
A CD/DVD cannot be played.	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 CDcH1 / CDcH2 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 <b>CONT</b> or <b>NAVI</b> . (Refer to page 35.)
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].
Neither video flor addio is output.	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.

# **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 (Equalizer)

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).

This is one format for use with optical discs not

UDF

reliant on the OS. It is used with media such as DVD and CD-RW

(Universal Disc Format)

Track

The single division for a song on a music CD is called a track.

#### **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 68 for details on region codes.

# Index by topic

# About screen and sound adjustment

[Regarding screen adjustment]
To make the audio operation screen or VTR screen easier to see  "Adjusting/setting the screen"
To turn off the screen "Turning off the screen"
To change the wallpaper "Changing the wallpaper"
To set the screen to wide mode  "Switching screen mode"
[Regarding audio adjustment]
To change the volume "Adjusting main volume"
To turn on/off the guide tone used at switch operation  "Setting the BEEP tone"
To adjust sound quality  • To change the acoustic environment of a performance  "Setting DSP (acoustics)"
Using AM/FM radio
To play the radio "Listening to the AM/FM radio"
To search for a radio station  "Selecting radio stations"
To save radio stations  "Saving radio stations"  P40

To listen to HD RADIO (IBOC)

# Index by topic

# About using the MP3 player

To play an MP	3 file <b>"Playing MP3"</b> P53
To select a mu	sic file "Selecting a music file"P53
When you war	nt to return to a level or don't know the current level "Changing display of the current level"P54
To search for a	n music file  "Searching for a music file"P54
To repeat a mu	usic file "Repeating the same music file"
To play files in	a different order "Playing songs in random order"P55
To change the	file information  "About display of file information"P56
To learn about	MP3 "About MP3"P57
To learn about	making MP3 files  "Making and playing MP3 files"

# About using the DVD player

To play a DVD	video	
	"Watching a DVD"	P72
To learn about	discs	
	about the marks displayed on discs and packages	
	"About marks displayed on discs"	P69
	about discs that can be played	
	"About playable discs"	P67
	a about disc structures	D70
	"About DVD disc structure"	P/0
To operate the	menu recorded on a disc	
	"Operating the disc menu"	P75
To operate the	video being played	
	"Operating the video"	P73
To select/searc	h for a video	
	"Searching by chapter"	P76
	"Searching by title number"	
	"Searching by menu number"	P77
To change the	display of touch switches	
	"Changing the touch switch display locations"	P78
To change sub	titles, audio or the video angle	
	"Switching the video angle"	P79
	"Switching subtitle languages"	
	"Switching dubbed audio language"	P81
To set the playe	er	
	"Setting the audio language"	P83
	"Subtitle language setting"	P84
	"Menu language setting"	
	"Setting display of multi-angle mark (angle selection mark)"	
	"Viewer restriction setting"	
	"Changing vides cutnut"	Doo

# Index by topic

About using the VTR	
use the VTR	
"How to use the VTR"P9	0
Useful functions	
operate the audio system by fingertip operations while driving	
"About the steering wheel switches"	2
When something isn't clear	_
hen you don't understand a screen message	
"If one of these messages appears"	2
hen you think the equipment may have a problem	
"Before asking for repairs"P10	4

# MEMO



# *INDEX*

A	
Adjusting sound quality 23 Adjusting the volume 22 ANGLE 79	IBOC43
AUTO.P 40, 45	Multi-angle mark79
В	N
BRIGHT36	Night screen35 NORMAL mode37
C	P
CD-R (CD-Recordable) 17 CD-RW (CD-ReWritable) 17 COLOR36	POS (position selector) 28
CONT	R
D	RAND51, 55 RPT51, 55
Day screen       35         DISC RAND       64         DISC RPT       63         DISC SCAN       63         DSP       24	Saving radio stations 40, 45 SCAN
H	Setting the opening screen 33
How to use an optional remote control96 How to use the	Steering wheel switches92 Switching subtitle languages80
AM / FM radio38 How to use the CD changer 62	TINT36
How to use the CD player50 How to use the DVD player 72 How to use the MP3 player 52 How to use the VTR90	Turning off the screen35



Volume balance VOLUME switch	_
W	

ound) 32
37
37
37
31

# MEMO