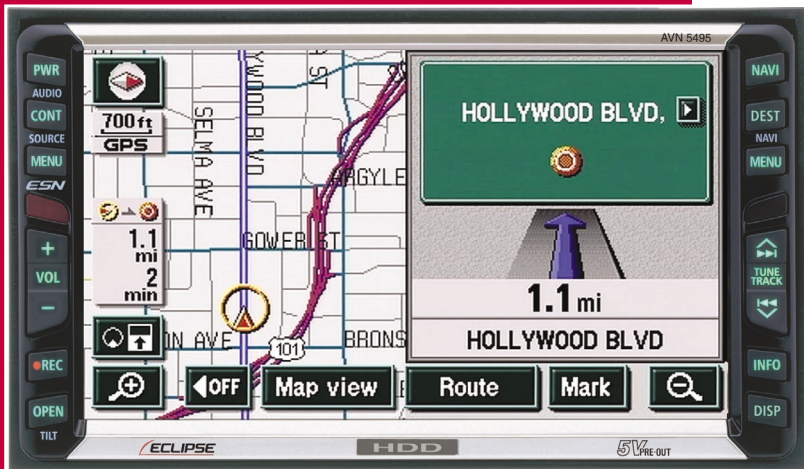


Reference Guide



AVN5495

ESN E5 6.5" Wide TFT Touch-Panel Display
CD/DVD/MS Multi-Source Receiver with HDD Navigation

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

1 For the safe usage of this device

The symbols described below are found in this instruction manual as well as on the device itself to insure its proper and safe usage and to prevent injury or damage to property. Make sure you understand the meaning of these symbols before reading the rest of this manual.



Warning

This sign indicates a situation in which incorrect handling through disregard of a sign might result in death or serious personal injury.



Caution

This sign indicates a situation in which incorrect handling through disregard of a sign might result in personal injury or may result solely in damage to property.

The following symbols will precede information useful for preventing damage to the device as well as for its smooth operation.



ADVICE

Follow this advice to prevent malfunctions or damage to the device. Perform the indicated action in the event of a malfunction.



ATTENTION

Useful information for smooth operation
Facts to keep in mind when operating

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

This navigation system is designed to provide maps and voice guidance for use as a reference only, and may occasionally give inaccurate or inappropriate guidance. Be sure to follow the actual traffic regulations (such as one-way roads, etc.) while driving.

Please use care in handling the manual.

Forcefully spreading or pulling on pages may result in their falling out of the binding. Use the manual carefully.

2 Safety precautions



Warning

- This device was made for vehicles equipped with a 12V \ominus battery. Do not use in a large truck, cold climate vehicle or any other vehicle that uses a 24V battery. Otherwise, fire may result.
- Make sure to follow the actual traffic regulations when driving even during route guidance.
Driving your vehicle while only following route guidance instructions may lead to traffic violations and cause accidents.
- The driver should avoid operating the system as much as possible while driving. Operating the system while driving could lead to steering errors and other unforeseen accidents. Stop the car before operating the system. Furthermore, when looking at the screen while driving, do so only for as long as is absolutely necessary. Looking at the screen will distract you from the road and may cause accidents.
- The driver should avoid adjusting the volume and performing similar operations while driving. Doing so will distract you from the road and may cause accidents. Park the vehicle in a safe area before operating the device.
- The driver should avoid watching the screen while driving. Paying insufficient attention to the road ahead may lead to an accident.
- The driver should not insert/eject CDs while driving. Doing so will distract you from the road and may cause accidents. Park the vehicle in a safe area before operating the device.
- You should never register geographical points or perform memory settings while driving the vehicle. Doing so will distract you from the road and may cause accidents. Park the vehicle in a safe area before operating the device.
- The driver should park the vehicle in a safe area and apply the parking brake before watching DVD or VTR mode. For safety reasons, only the sound of DVDs or the VTR will be emitted while the vehicle is in motion.
- Do not insert foreign objects into the disc slot or "Memory Stick" slot. This may cause fire or electrical shock.
- Do not disassemble or rebuild this product or the HDD. Doing so may cause an accident, fire or electrical shock.
- Do not pour water or insert foreign objects into the device. This may cause smoke emission, fire or electrical shock.
- Do not operate the product in a malfunctioning condition, for instance, when the video or the audio does not play. Doing so may cause an accident, fire or electrical shock.
- When it is necessary to replace the fuse, always use a fuse of the correct rating (number of amperes). Use of fuses with higher amperage ratings may cause a fire.



Warning

- If an abnormal situation occurs, such as foreign matter entering or liquid splashing on the product, or smoke or a strange odor emitting from the unit, shut off the product immediately and consult the dealer from whom you purchased it. Continued operation may cause an accident, fire or electrical shock.
- Do not touch the antenna wire or the device itself if you hear thunder. There is a danger of electrical shock due to lightning.
- Do not place the plastic bag over your head. Otherwise, a serious injury or suffocation may occur.
- Do not stop or park the vehicle in areas where the use of this unit is prohibited.



Caution

- This device can be used when the engine switch is either at ON or ACC, however, to avoid depleting the battery, it is recommended that you operate it with the engine running.
- This product must be operated only as on-board equipment, or it may cause electrical shock or injury.
- Play the audio at a moderate volume level that permits you to hear sounds from outside the car. Driving without being able to hear outside sounds may result in an accident.
- Check the volume prior to turning the device ON. If the volume is turned up when turning the switch ON, a loud sound will emit which may damage your hearing.
- Do not insert hands or fingers into the disc slot or "Memory Stick" slot. Otherwise, injury may result.
- Exercise caution to avoid getting your fingers caught when closing the display or adjusting its angle. Otherwise, injury may result.
- Do not touch heated parts of the device. Otherwise, burns may result.
- For safety reasons, when moving the device have a specialist at the store of purchase reinstall it for you. Specialized techniques are necessary to uninstall or install the device.
- Do not use the device if it emits a distorted sound or other abnormality. Otherwise, fires may result.
- The device's liquid crystal display is equipped with a fluorescent tube. Check your local rules and regulations regarding its proper disposal.
- Using the device at extremely high or low temperatures may lead to improper operation and malfunctions. Lower your windows in order to bring down the temperature before using the device, especially during the hot summer months.
- Letting water or metal objects get into the device or exposing it to strong shocks may cause malfunctions. Exercise caution.
- Metal parts exposed to direct sunlight may become hot, causing burns.
- This device uses invisible laser light. Do not disassemble or rebuild this product. Contact the store of purchase in the event of any unsatisfactory performance. Rebuilding this product could lead to hazardous radiation (causing damage to eyesight), accident, fire, or electric shock.



Caution

- Be aware of the following when ejecting discs or setting the display tilt position.

<For vehicles with an automatic transmission>

- When removing a disc, switch to Neutral in the event of interference when in Park and proceed. (For a column automatic transmission, perform this operation when in either Park or Neutral.)
- When setting the tilt position, choose an angle that does not interfere with operation of the shift lever in the "P", "R" or "N" lever positions. (If there is interference with the shift lever in these operating positions, do not set a tilt position.)

<For vehicles with a manual transmission>

- When removing a disc, if interference is generated when in 1st, 3rd, 5th or \textcircled{R} gear, switch to Neutral and proceed. However, do not perform this operation while driving.
- When setting the display tilt, make sure there is no interference generated from your hand or other obstructions when either in 1st, 3rd, 5th or \textcircled{R} gear. (Do not set the tilt if there is interference.)



- If the device is exposed to strong vibrations due to rough driving, the device may not be able to read the data stored on the disc, rendering normal operation impossible. Reduce the vibration level and normal operation will resume in a moment.
 - Condensation may accumulate on the lens that functions to read CDs and DVDs immediately after turning the heater ON in cold temperatures. Wait about 1 hour for the condensation to evaporate and the device will operate normally. Contact the store of purchase if normal operation does not resume after several hours.
 - If using this device immediately after having purchased it or after having stored it disconnected from the vehicle battery, the present location may not be accurately displayed. Wait a moment and the GPS positioning will correct the displayed position.
 - This is a precision device and is therefore affected by static electricity, electrical noise and vibrations which may result in a loss of user data. Please keep a separate note of the information stored on the unit.
 - Furthermore, please be aware that the warranty does not cover the following cases.
 - ① Data stored by the user in the hard disc drive is altered/lost as a result of malfunction, improper use, or fault of the unit, or, as a result of adverse effects associated with electrical noise.
 - ② Data stored by the user in the hard disc drive or map data/base program data in the hard drive is altered/lost as a result of improper use of the unit by you or a third party.
 - ③ Data stored by the user in the hard disc drive is altered/lost during malfunction/repair.
- * Furthermore, by installing or using this device, you signify that you agree to the above terms.
- This unit is designed to be resistant to electrical noise generated by other electrical devices. However, if a device generating a high level of noise is operated in the vicinity of the unit, the screen may be distorted or static and other such problems may be caused. Should this happen, refrain from using that particular electrical device.

3 How the instruction manuals are organized

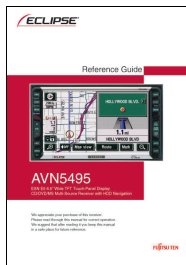
Use each instruction manual in the following order.

The AVN5495 comes with 3 instruction manuals. Use each manual separately depending on your use of the device.

Until you are completely comfortable with all of the device's basic functions:

Read the "Reference Guide".

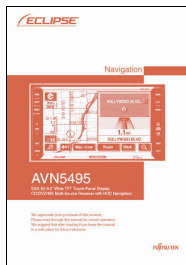
Only basic operations and the most frequently used functions are described.



When wanting to master all navigation functions:

Read the "Owner's manual/Navigation".

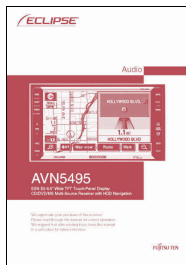
All navigation functions are described.



When wanting to master all audio functions:

Read the "Owner's manual/Audio".

All audio functions are described.



The screens used in the instruction manuals may differ from the actual screens appearing on the device—depending on the type of database and when it was compiled. In addition, the GPS mark does not appear on the navigation screens.

4 How to use this manual

Item title

A number and title is assigned to each item.

Section title

A title is assigned to each section.

Operation title

A title is assigned to each operation.

Example of operation

A title is assigned to each specific purpose.

Detailed operation title

A title is assigned to each detailed operation.

Operation procedure

Describes the operation. Proceed with the operation according to the numerical order.

ATTENTION

Additional points regarding operation are given here.

Audio
6
DVD player operation

Viewing a DVD video

Playing a DVD

- **When no DVD inserted**
 - 1 **Insert a DVD into the slot.**
 - Playback will automatically start.
- **When a DVD is inserted**
 - 1 **Touch **DVD** in SOURCE MENU.**
 - The SOURCE MENU can be displayed by touching the SOURCE MENU RECALL switch.

ATTENTION

Some DVDs may not playback automatically. In this case, start playback from the disc menu stored in the DVD.

Manipulating the image

The image being played can easily be manipulated.

- 1 **Touch the operation switch.**
 - While paused (⏸) briefly touch ⏩ for slow motion playback, or ⏮ for frame-by-frame playback.

ATTENTION

Press **AUDIO CONT** or touch the screen to display the DVD operation screen.

Touch switch	Function	Touch switch	Function
▶	Starts playback.	⏩	Fast-forwards. Touch while paused for slow motion playback.
■	Stops playback.	⏮	Rewinds.
⏸	Pauses playback. Briefly touch ⏸ while paused for frame-by-frame playback.	RETURN	Moves to a specified position on the disc and starts playback.

98

Selecting a chapter

- 1 Press **V/◀** or **▶/R**.

Track selection
(track start point)/
fast-forward
(rewind) buttons



Operating the disc menu

- 1 Touch **NEXT**.



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



- 3 Touch **+**.

- 4 Touch **↓**, **↑**, **←** or **→** to select the desired item.

- 5 Touch **ENTER**.



Operation switch

Switches needed to perform operations are displayed.

Section side heading

The side heading for the current section.

Operation screen

A screen showing the operation.

Audio



The menu screens displayed differ depending on the DVD disc.

Continue to the next page...➔

The operation procedures are continued on the next page.

5 Table of Contents

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using this device

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1 Name of parts

The unit can be operated by pressing buttons on the frame of the panel (panel buttons) and by touching switches displayed on the screen (touch switches).

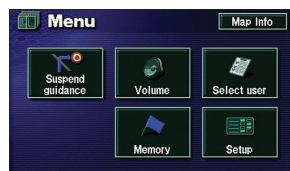
Panel buttons

Press the panel buttons found on either side of the screen to operate the device.



①	PWR button	Press to turn power to audio/DVD on and off.
②	AUDIO CONT button	Press to display the audio/DVD operation screens.
③	SOURCE MENU button	Press to display the audio menu screen that enables the switching of audio modes.
④	Security indicator	Flashes when the ESN security system is in operation.
⑤	VOL button	Press to adjust the volume for audio/DVD.
⑥	REC button	Press to record music during playback.
⑦	OPEN / TILT button	Press to open the display or adjusting the angle of the screen.
⑧	NAVI button	Press to display the navigation screen and present location.
⑨	DEST button	Press to set the destination determined by the navigation system.
⑩	NAVI MENU button	Press to display the navigation menu screen.
⑪	TUNE / TRACK button	Press to select radio stations, CD audio tracks and DVD chapters.
⑫	INFO button	Press to set information functions and other settings.
⑬	DISP button	Press to adjust the screen image quality or blacken the screen.

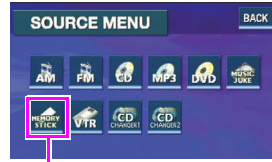
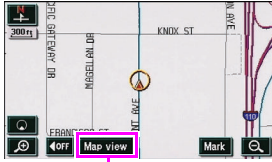
Press the **NAVI MENU** button.



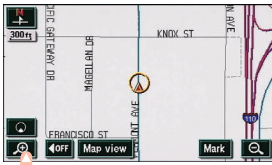
A menu screen appears.

Touch switches

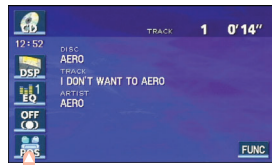
Unit can be operated by touching switches on the screen.



Touch switch



"beep"

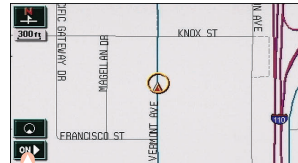
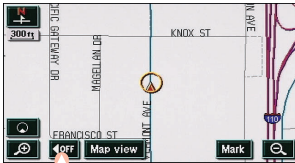


"beep"

[About the operation of touch switches]

- Touch the switches until you hear a beep.
- Touch the switches lightly to prevent damage to the screen.
- If a switch does not respond, remove your finger and touch it again.
- Unavailable switches are shaded.
- When a function for a switch is active, the color of that switch may become brighter.

Touch OFF and . . .



The touch switch displays will disappear.
Touch **ON** to display touch switches again.



Caution

Touch these switches with your fingers.
Using a pen, pencil or other object with a hard or sharp tip to touch the screen may cause damage.



ATTENTION

This device can be operated by remote control. You may obtain a card remote control (sold separately) at the store of purchase.

2 How to turn the power ON or OFF

Turning the power ON or OFF

When the engine is turned on, the DVD/audio power will automatically turn on. The navigation function's Caution Screen and/or the DVD video screen will appear. Touch **I agree** to switch to the Navigation screen. The power will turn OFF when the engine is turned off.

* If the engine is turned off while a DVD video is playing, the DVD video screen will re-appear when the engine is turned on again.

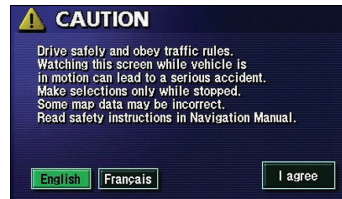
(Opening screen)



(Caution screen)

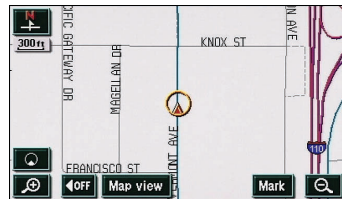
1 Select the language.

- Touch **I agree** for English.
- Touch **Français** and then **I agree** for French.



I agree

(Navigation screen)





- Map data is recorded in the built-in hard disc, so there is no need for a map disc.
- Press **NAVI** if the navigation screen does not appear.
- Press **PWR** if the audio / DVD does not turn ON. Press **PWR** again to turn off the audio/DVD power.

PWR button



NAVI button

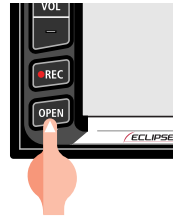
3 How to insert a disc/"Memory Stick"

Inserting or ejecting a CD, DVD, or "Memory Stick"

When you want to listen to music, insert a CD or "Memory Stick" in to the relevant slot. When playing a DVD video, insert a DVD video disc into the relevant slot.

How to insert discs (CD/DVD) and Memory Sticks

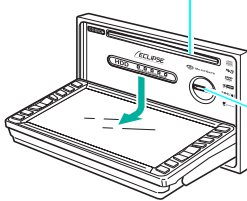
1 Press **OPEN/TILT**.



2 Touch **DVD/CD** or **MEMORY STICK OPEN**.

- The display will open showing the insert slots.

DVD or CD insert slot



"Memory Stick" insert slot



The display can also be opened/closed by pressing **OPEN/TILT** for about 1 second until you hear a beep.



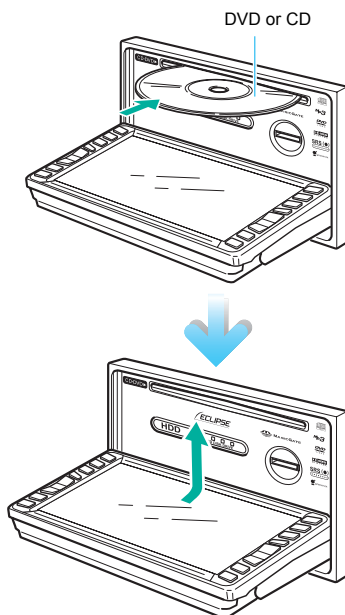
Caution

- If the vehicle's automatic transmission shift lever is in the "P" position, or the manual transmission lever is in the 1, 3, 5 or $\text{\textcircled{R}}$ position, or if a bottle or other container is in the cup holder, this could interfere with the opening and closing of the display. When it is safe to do so, move the shift lever to the "N" or "Neutral" position or remove the container from the cup holder before opening or closing the display.
- Do not place objects such as cups or cans on the display when it is in the open position. This could damage the display.
- Quickly wipe away any liquid spilled on the display. Otherwise, damage may result.
- To protect the display from heat and dust, keep it closed at all times except when inserting or ejecting a disc or "Memory Stick".

■ When inserting a DVD or CD

3 Insert the disc into the slot.

- The display will close automatically after the disc has been inserted.



- Insert a DVD or CD by holding it label up with one finger on the center rim and another finger on the edge.
- Playback starts as soon as a DVD is inserted.
- CD or MP3 playback starts as soon as a CD is inserted.



ATTENTION

MUSIC JUKE will automatically start recording when playback of a music CD begins. This is the default setting for this unit. To stop recording, close the display (see 4 on next page) and press **REC** for at least 1 second. (For details, see "MUSIC JUKE operation" on page 88.)

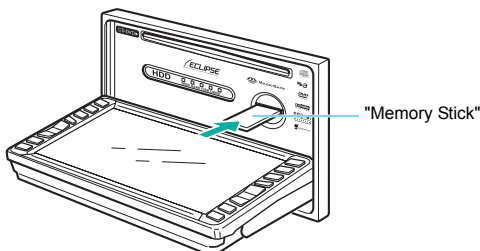


Caution

- DVDs and CDs are inserted into the same slot. Only one type of disc can be inserted at any one time.
- Do not insert a map disc (DVD-ROM), as they cannot be used.
- Do not touch **CLOSE** or press **OPEN/TILT** while inserting a disc.
- Do not use an adapter when inserting 8cm CDs. Ejecting may be rendered impossible.

■ When inserting a "Memory Stick"

3 Insert the "Memory Stick" into the slot.

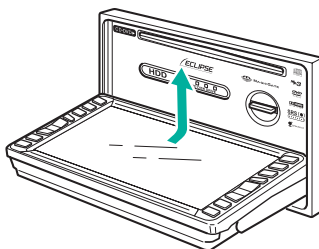


- Insert the "Memory Stick" in the direction of the ► mark until a click is heard. Once the "Memory Stick" meets the back stopper, do not force it as it cannot be inserted any further. (Once fully inserted, the "Memory Stick" should still protrude a few millimeters.)
- Always use a "Memory Stick Duo" adapter when inserting a "Memory Stick Duo". (If a "Memory Stick Duo" is inserted without this adapter, it is possible that the "Memory Stick Duo" cannot be ejected.)

4 After checking that the "Memory Stick" has been fully inserted, wait 4 seconds then touch

CLOSE .

- The display will close.
- The display can also be closed by pressing **OPEN/TILT** for about 1 second until you hear a beep.



Caution

- Do not touch **CLOSE** or press **OPEN/TILT** while inserting a Memory Stick.
- Do not remove the "Memory Stick" or "MG Memory Stick" while playing back or reading data. Otherwise, data may be lost. Please be aware that we will not be held responsible for lost data.



■ About DVDs

- DVDs labeled with the marks at right can be used with this device. Only DVD-R/RW (DVD-Recordable/ReWritable) and DVD+R/RW (DVD+Recordable/ReWritable) recorded in video mode can be played. Discs recorded in Video mode (VR) cannot be played.
- Some functions cannot be used depending on the type of DVD.
- It is possible that a DVD-R/RW (DVD-Recordable/ReWritable) or DVD+R/RW (DVD+Recordable/ReWritable) disc will not play on the unit due to special disc characteristics, scratches, dirt or deterioration caused by long storage in the vehicle. DVD-R/RW or DVD+R/RW that have not been finalized cannot be played. It is possible that discs recorded using a computer may not play on the unit depending on the environment and/or settings of the applications used.



■ About CDs

- Music CDs, CD-R (CD-Recordable), and CD-RW (CD-Rewritable) labeled with the marks at right can be used with this device. (For details, see **"Before using the deck"** in the **"Owner's manual/Audio"**.)
- Do not use discs with transparent or semi-transparent portions within the recording area, or C-thru discs, since they may not be accepted and ejected properly and may not play properly.
- CD-RW may not play due to their particular properties or scratches, dirt or deterioration as a result of having been left for extended periods inside the vehicle. Also, CD-Rs and CD-RWs that haven't gone through finalized processing cannot be played on this device. It is possible that discs recorded using a computer may not play on the unit depending on the environment and/or settings of the applications used.
- The CD-TEXT function requires commercially available CDs which support CD-TEXT. It is possible that characters in CD-R and CD-RW data may not be displayed correctly.
- CCCDs (Copy Control CDs) do not conform to official CD standards so are not supported.
- Super Audio CDs can only be played in the hybrid disc layer.
- CD-EXTRA discs can be played as audio CDs.
- Voice tracks on Mixed Mode CDs cannot be played. Only music tracks will be played.
- Video-CDs cannot be played.





■ About the "Memory Stick"



- Memory Sticks, Memory Stick Duos, and MG (Magic Gate) Memory Sticks labeled with the marks at right can be used with this device. (For details, see **"Before using the deck"** in the **"Owner's manual/Audio"**.)



For database
updates and
ESN

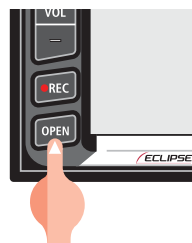
MAGICGATE

For music/
database
updates and ESN

- "Memory Stick PRO" is not supported.
- Memory Sticks with a capacity of up to 128MB are supported.
- Use the dedicated device to format (initialize) "MG Memory Sticks".
A "Memory Stick" cannot be played on this unit if it has been formatted using a device other than the dedicated device.
- Always remove the "Memory Stick" or "MG Memory Stick" when it is not in use.
- "MagicGate Memory Stick"  and "Memory Stick"  are registered trademarks of Sony Corporation.

How to eject discs (CD/DVD) and "Memory Sticks"

1 Press **OPEN/TILT** .



2 ● Touch **DVD/CD** to eject the disc.

(The disc is automatically ejected.)

● Touch **MEMORY STICK OPEN** and lightly press the "Memory Stick" (once) to eject.

● If the disc does not eject (is not released from the internal mechanism), touch **CLOSE** to close the display and then press and hold **OPEN/TILT** for at least 5 seconds.



3 Touch **CLOSE** after ejecting.

● The display can also be closed by pressing **OPEN/TILT** for about 1 second until you hear a beep.



- The display can be opened even after pressing **OPEN/TILT** for about 1 second until you hear a beep. When the display is open, press **OPEN/TILT** for about 1 second until a beep is heard to close.
- Turning the engine OFF while the display is opened will emit a voice notification. Touch **CLOSE** or press **OPEN/TILT** to close the display.



Caution

- If the vehicle's automatic transmission shift lever is in the "P" position or manual transmission lever is in the 1, 3, 5 or R position, or if a bottle or other container is in the cup holder, this could interfere with the opening and closing of the display. When it is safe to do so, move the shift lever to the "N" or "Neutral" position or remove the container from the cup holder before opening or closing the display.

- Be careful of the following when a disc is being ejected.

<Automatic transmission vehicles>

If the shift lever in the "P" position causes interference with disc ejection when it is, switch the lever to the "N" position to eject discs. (Steering column mounted shift levers allow unit operation while the lever is in either the "P" or "N" position.)

<Manual transmission vehicles>

If interference is generated when in 1st, 3rd, 5th or R gear when removing a disc, switch to Neutral and proceed.

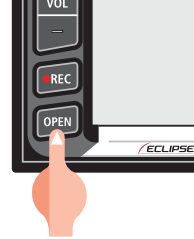
- Do not close the display while an ejected disc or "Memory Stick" is still in the slot. Otherwise, the media or unit may be damaged.
- Do not close the display by hand. This could damage the display.
- If operating the automatic transmission shift lever or column automatic transmission interferes with the open display, refrain from using the lever until the display is returned to its original position.
- Do not place objects such as cups or cans on the display when it is in the open position. This could damage the display.
- Quickly wipe away any liquid spilled on the display. Otherwise, damage may result.
- To protect the display from heat and dust, keep it closed at all times except when inserting or ejecting a disc or "Memory Stick".

How to adjust the angle of the display

Setting the display to a preferred angle

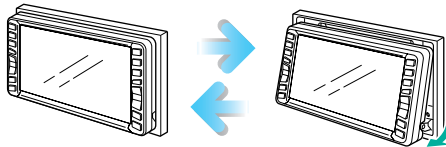
The screen viewing angle can be adjusted to any of 6 stepped positions if light from outside the vehicle makes viewing difficult.

1 Press **OPEN/TILT** .



2 Touch **TILT** .

- The display will tilt upwards by one step (5°).
- Every time the switch is touched the display tilts one step at a time.
- Touching the switch when the display is tilted to the 6th level (30°) will bring it back up to its original position (0°).



3 Press **OPEN/TILT** after finishing adjustment.



- The display can still be opened when it has been tilted. When closed again, it will return to its tilted position.
- If the display is in an adjusted angle position when the vehicle ignition is turned off, the display will automatically return to its original position (0°). If the ignition switch is then turned to ACC or ON, the display will resume the adjusted angle position.




Caution

- Be careful not to pinch your fingers or other objects when adjusting the angle of the display. This could cause an injury or damage to the display.
- Do not insert discs into the gap created at the top of the unit when the display is tilted. Otherwise, the media or unit may be damaged.
- Observe the following cautions when adjusting the angle of the display.

<Automatic transmission vehicles>

When setting the tilt position, choose an angle that does not interfere with operation of the shift lever in the "P", "R" or "N" lever positions. (If there is interference with the shift lever in these operating positions, do not set a tilt position.)

<Manual transmission vehicles>

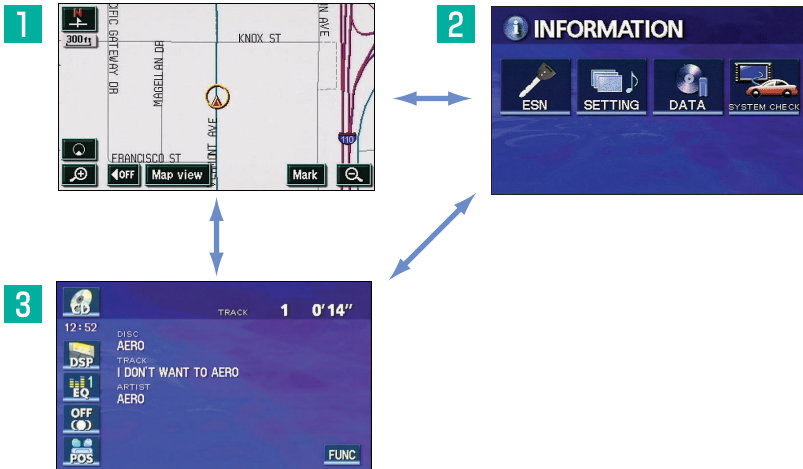
When setting the tilt position, choose an angle that does not interfere with operation of the shift lever in the 1, 3, 5 or  lever positions. (If there is interference, do not set a tilt position.)

5 Modes

Get to know each mode

This device has three main modes: "Navigation", "Information" and "Audio/DVD".

You can switch from any mode to any mode.



	Mode	Main functions
1	Navigation	<ul style="list-style-type: none"> ● Present location display ● Instructions to destination ● Geographical point registration (home/memory points)
2	Information	<ul style="list-style-type: none"> ● ESN security settings ● Setting display ● Management of data on the HDD ● Recalling the system check screen
3	Audio/DVD	<ul style="list-style-type: none"> ● AM/FM broadcast reception ● CD player operation ● MP3 player operation ● "Memory Stick" operation (music) ● MUSIC JUKE operation ● DVD player operation

* "Memory Stick" is a registered trademark of Sony Corporation.

6 Operational conditions

Activation conditions

Depending on the following conditions (engine switch position), the device functions may or may not be operable.

○: Operable ×: Inoperable

Each function \ Engine switch	OFF (LOCK)	ACC/ON with parking brake set	ACC/ON with parking brake released	Display is open
GPS Navigation/ Information	×	○	Some functions are inoperable for safety reasons.	× Route and voice guidance continue.
Audio	×	○	Some functions are inoperable for safety reasons.	× Voice guidance continues.
DVD Video	×	○	For safety reasons, only audio is emitted.	× Voice guidance continues.
Inserting and ejecting discs and Memory Sticks/Adjusting display angle	The display can be closed after the engine is turned OFF	○	○	The display angle cannot be adjusted.

* For safety reasons, only the sound of DVD video playback will be emitted while driving.



ATTENTION

Inoperable switches are shaded and disabled while driving. Pressing inoperable switches while driving will display a message on the screen regarding prohibited operations.



Caution

When installing this device to vehicles, please be sure to connect a parking signal. If the parking signal is not connected, this device will not operate normally and may cause an accident.

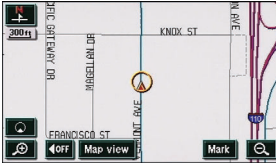
7 How to switch modes

Switching modes

Press the buttons below to switch modes.

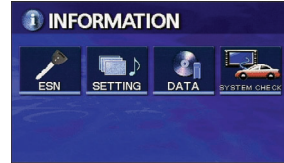
Navigation screen

Press **NAVI**.



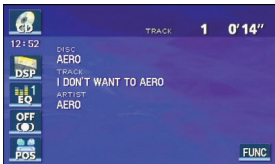
INFORMATION screen

Press **INFO**.

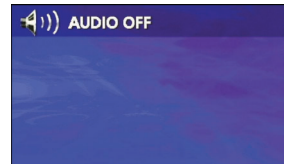


Audio operation screen

Press **AUDIO CONT**. (ON screen)*¹



(OFF screen)*²



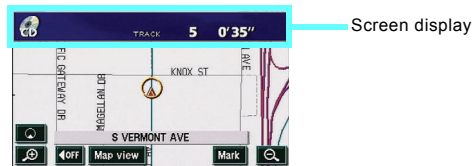
*1: Appears when the audio or DVD functions are in operation. See the "Owner's manual/Audio" for audio and DVD operation.

*2: Appears when the audio or DVD functions are turned OFF.

About the screen display

Operate audio or DVD (select a track or chapter) when the navigation screen is displayed or the screen is turned off and this screen will appear.

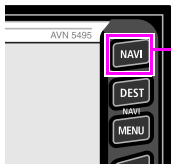
The screen will disappear automatically in a moment.



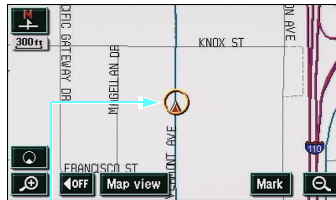
1 Map operation

Checking the positioning of your vehicle

Press **NAVI** to display a map of the area in which your vehicle is located.



NAVI button



Vehicle mark

The present location and the heading are displayed. The mark will move automatically according to the movement of the vehicle.

Viewing the present location screen


Orientation mark

Indicates the orientation of the map.

Name of present location

Press the **NAVI** button to display the current location in the present location screen.


Scale

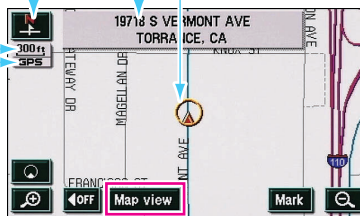
Indicates the reduction scale of the displayed screen. In this case, the length of the line segment () is 300ft.

Vehicle mark

GPS mark

Indicates that absolute positioning information from the GPS satellite is being used.

 Reception in operation

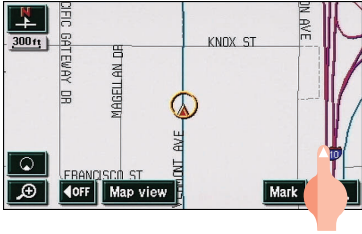


Touch switch

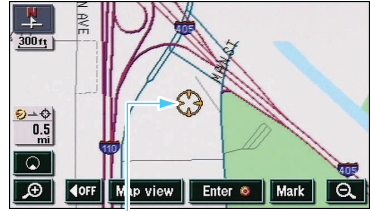
Various function switches are displayed depending on the screen.

Moving the map (one-touch scroll)

Touch the screen directly to move the map.



Scrolling



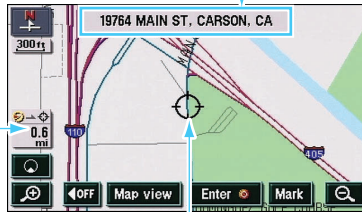
Cursor mark

Touch the map and the cursor mark will appear in the middle of the screen.

Viewing the scroll screen

Street name display


After moving the map, the name of the street at the cursor position will appear for about 6 seconds.





Straight line distance display

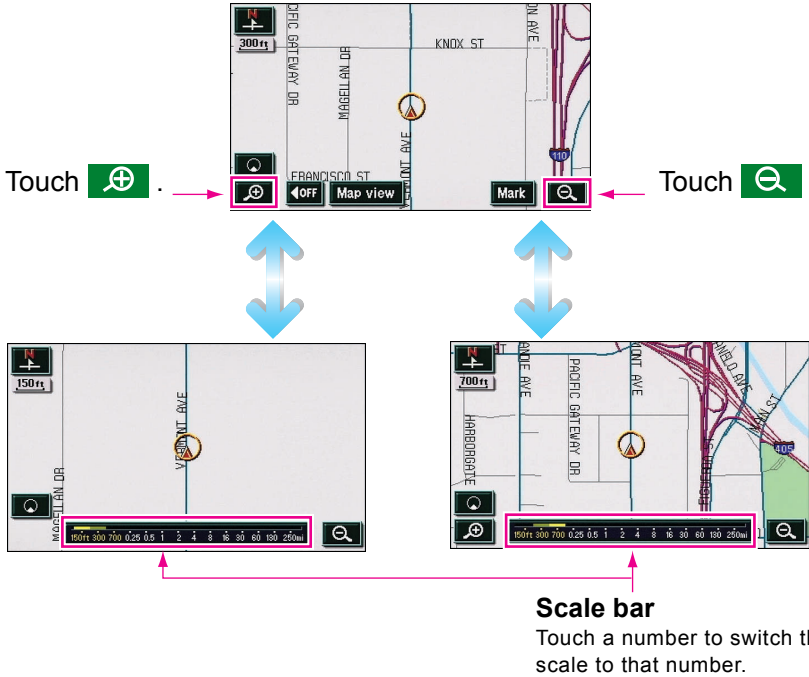
The distance in a straight line from the present location to the center of the cursor mark is shown.





Cursor mark

Hold down the cursor mark and it will change to , making scrolling faster.

Changing the map reduction scale

Touch the  switch and the map reduction scale increases, making for a wider range display. Touch the  switch and the map reduction scale decreases for a more detailed map display.



Every time either  or  is touched, the scale changes one level. Touch and hold either  or  for more than 1 second to change the scale without going through each level.

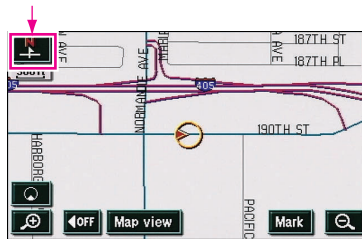
Changing the orientation of the map

The orientation of the map displayed on the screen can be switched to either north-up (the map is always oriented north) or heading-up (the map is always oriented in the direction you are heading).

Touch the orientation mark ( or ) to switch the map orientation.

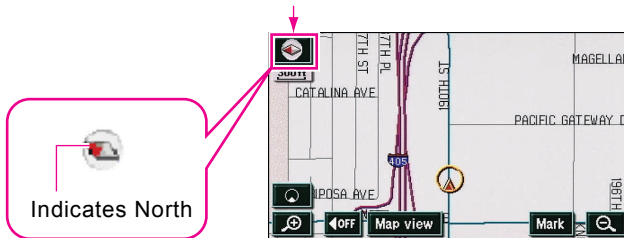
North-up display

Orientation mark display






Heading-up display

Orientation mark display

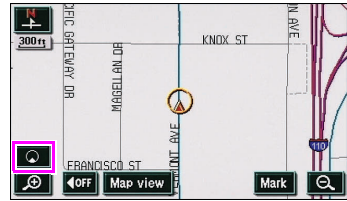


Changing the map display method

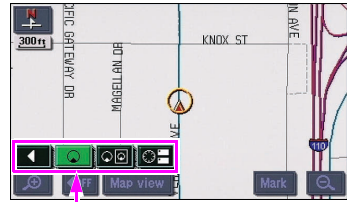
The map display can be changed according to several conditions. There are three types of map display methods.

	Shows a regular map.
	Shows a split-screen map.
	The current orientation of the vehicle and positioning data for the current position are displayed in the compass screen.

1 Touch  .



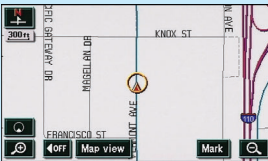
2 Touch the desired display method.



The touch switches on the displayed map brighter.

Touch  and...

a regular map will be displayed.



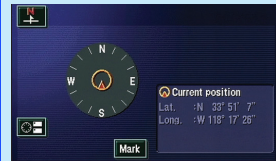
Touch  and...

a split-screen map will be displayed.



Touch  and...

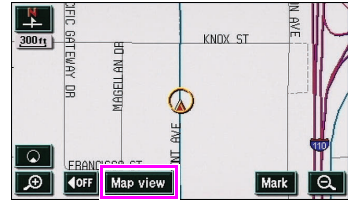
the current orientation of the vehicle and latitude/longitude of the current position are displayed in the compass screen.



Displaying various points of interest on the map

Various points of interest (landmarks) can be shown on the displayed map.

1 Touch **Map view** .



2 Touch **Show POI icon** .

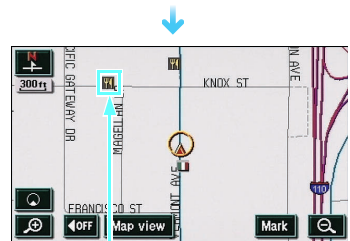


3 Touch the **POI icon to be displayed**.

- Landmarks other than these 6 types can be displayed. For details, see "POI display" in the "Owner's manual/Navigation".



- The selected POI landmark will appear.



POI landmark

2 How to register places

Registering your home

Register your home before using the device.

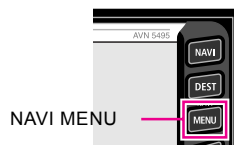
Registering your home will facilitate the setting of return routes when driving.

When at home



Press **NAVI** and proceed with operation after the map of the area surrounding your home appears.

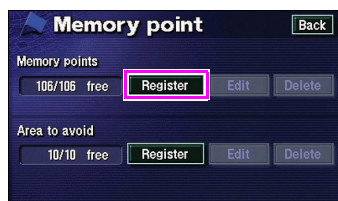
- 1 Press **NAVI MENU** to retrieve the Menu screen.



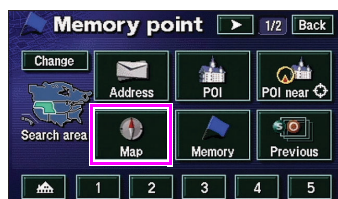
- 2 Touch **Memory**.



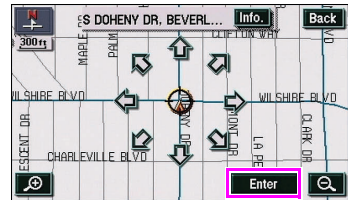
- 3 Touch **Register** for Memory points.



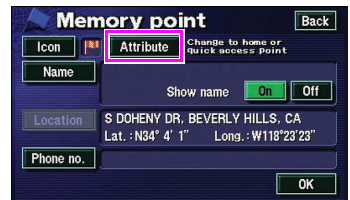
- 4 Touch **Map**.



5 Touch **Enter** .



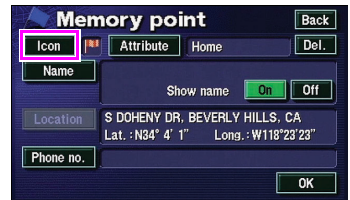
6 Touch **Attribute** .



7 Touch **Not registered** .



8 Touch **Icon** .

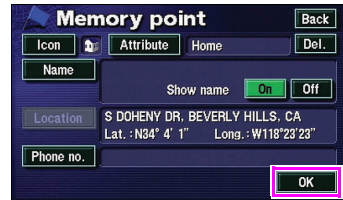


9 Touch the icon you want to use on the map.

- Touch **Page 2** or **With sound** to select a different icon. For details, see "Changing a memory point icon" in the "Owner's manual/Navigation".

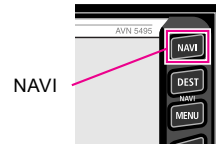


10 Touch **OK** .



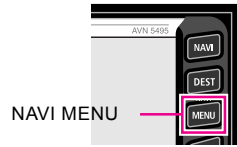
11 Press **NAVI** .

- The present location appears.

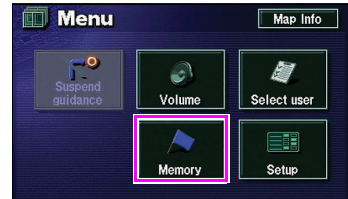


When at a location other than your home

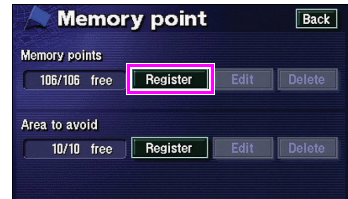
1 Press **NAVI MENU** to retrieve the Menu screen.



2 Touch **Memory**.



3 Touch **Register** for Memory points.



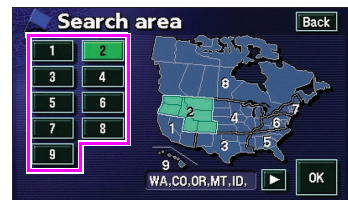
4 Touch **Change** above Search area.

- If your home is in the currently selected area there is no need to change the search area.



5 Touch the area in which your home is located.

- See "Changing the search area" in the "Owner's manual/Navigation" for information regarding states/regions registered in each area.



6 Touch **OK .**

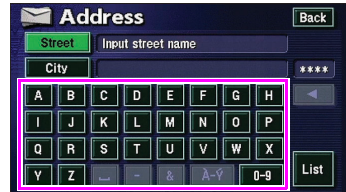


7 Touch **Address .**

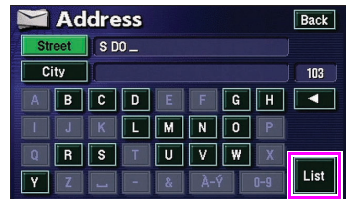


8 Touch one letter at a time to enter the street name.

- If you make a mistake, touch to delete one letter at a time.
- It is not necessary to enter the whole name. When there are 4 or less search results matching the entered letters, a list is automatically displayed on the screen.

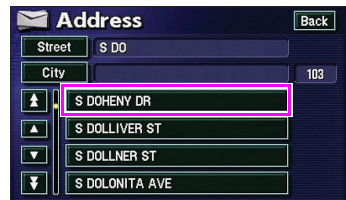


9 Touch **List .**



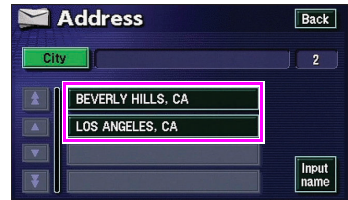
10 Touch the desired street name.

- Touch , , or to display different list screens. For details, see "Switching the list screens" in the "Owner's manual/Navigation".




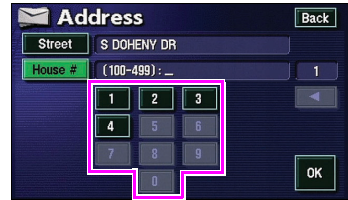
11 Touch the relevant city name.

- The City list can be narrowed down by touching **Input name** and entering the city name. For details, see "Retrieving a map using an address" in the "Owner's manual/Navigation".



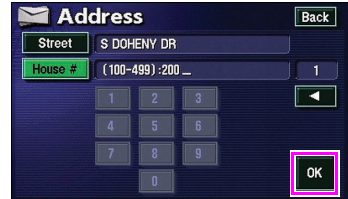
12 Enter the house number one number at a time by touching the number switches on the screen.

- If you make a mistake, touch  to delete one number at a time.

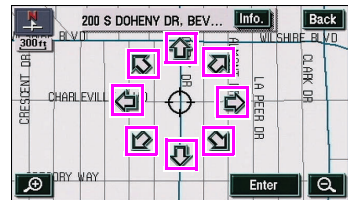


13 Touch **OK .**

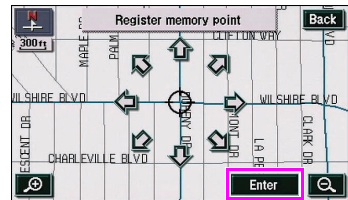
- A map is displayed showing the house number on the corresponding street and its vicinity.



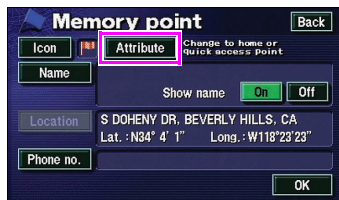
14 Touch  to align the position of your home.



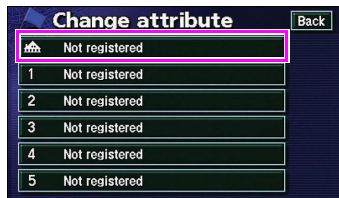
15 Touch **Enter .**



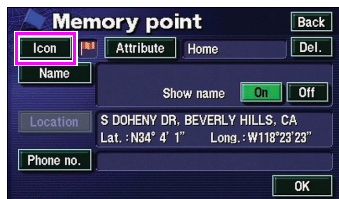
16 Touch **Attribute** .



17 Touch **Not registered** .



18 Touch **Icon** .

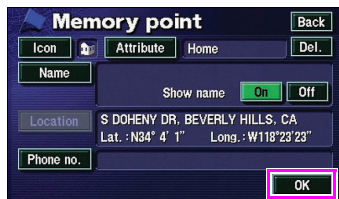


19 Touch the icon you want to use on the map.

- Touch **Page 2** or **With sound** to select a different icon. For details, see "Changing a memory point icon" in the "Owner's manual/Navigation".

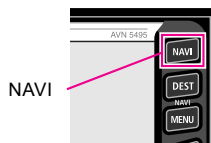


20 Touch **OK** .




21 Press **NAVI** .

- The present location appears.




Registering favorite places

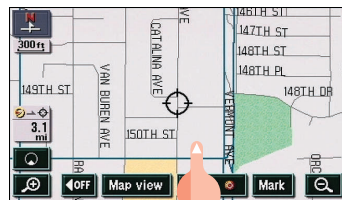
Up to 106 favorite places (including your home and quick access points) can be registered on the map.

Registering a place will cause a flag () or a name appear on that spot.




Registering from the map

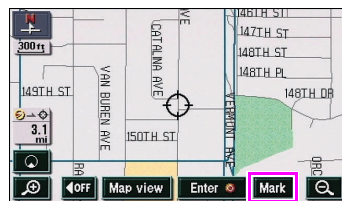
1 Touch the map and move the mark to the spot you want to register. 

- The map does not need to be moved if you are registering the present location.



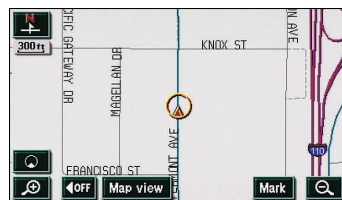
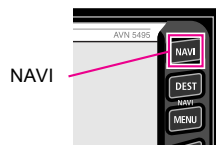
2 Touch **Mark.**

- The position of  (if using the current location) or  (if you have moved the map) will be registered with a  icon.



3 Press **NAVI.**

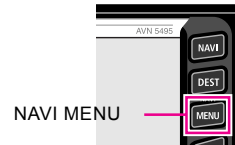
- The present location appears.



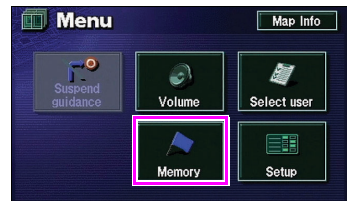
Registering a far away place

■ Register **BEVERLY HILLS LIBRARY** in Los Angeles, California.

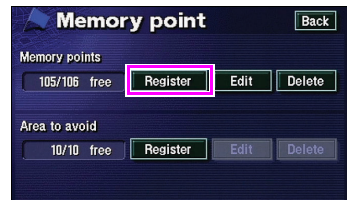
- 1 Press **NAVI MENU** to retrieve the Menu screen.



- 2 Touch **Memory**.

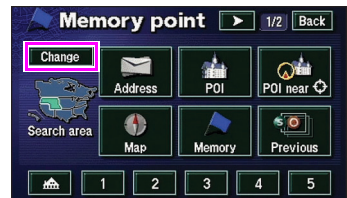


- 3 Touch **Register** for Memory points.



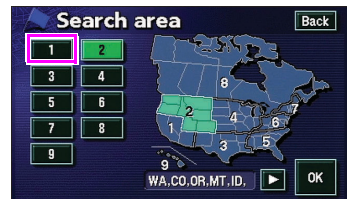
- 4 Touch **Change** above Search area.

- If the POI destination is in the currently selected area, there is no need to change the search area.

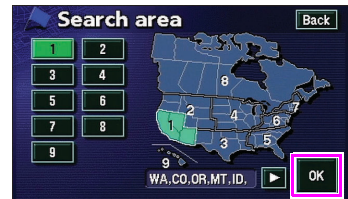


- 5 Touch **1**.

- See "Changing the search area" in the "Owner's manual/Navigation" for information regarding states/regions registered in each area.



6 Touch **OK** .

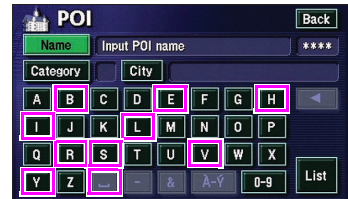


7 Touch **POI** .

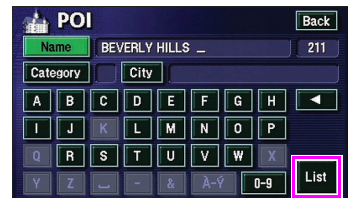


8 Touch **B** , **E** , **V** , **E** , **R** , **L** , **Y** , **,** **L** , **H** , **I** , **L** , **L** , **S** , **,** **L** in this order.


- It is not necessary to enter the whole name. When there are 4 or less search results matching the entered letters, a list is automatically displayed on the screen.

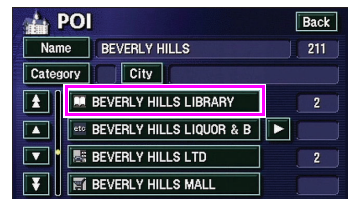


9 Touch **List** .




10 Touch **BEVERLY HILLS LIBRARY** from the list.

- Narrow down the list of potential items using **Category** and **City** .
- You can scroll through the letters by touching  .
- If there are multiple store locations, a number is displayed to the right of the store name.



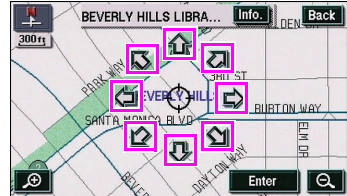
11 Touch 444 N REXFORD DR, .

- You can scroll through the letters by touching .

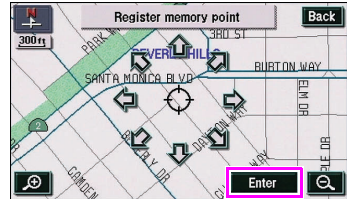


12 Touch  to move the map.

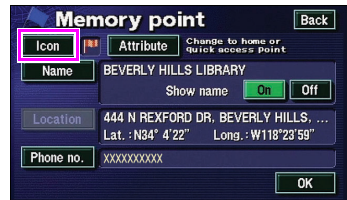
- When not moving the map, start from **13**.



13 Touch Enter .



14 Touch Icon .

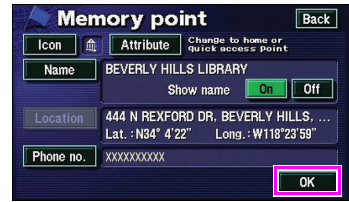


15 Touch the icon you want to use on the map.

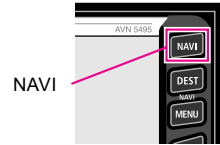
- Touch **Page 2** or **With sound** to select a different icon. For details, see "Changing a memory point icon" in the "Owner's manual/Navigation".



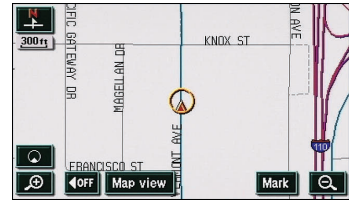
16 Touch **OK** .



17 Press **NAVI** .



- The present location appears.



3 Route guidance

Starting route guidance

Once a destination is set, the unit will automatically begin searching for possible routes. This is called a **"Route search"**. When the route search is complete, a route to the destination is set. This is called **"Route setting"**. When the route has been set and you begin driving, you will be guided to the destination via the appropriate screens and voice instructions.

This is called **"Route Guidance"**.

Route search (setting a destination)

- Search by moving the map
- Search from stored data
- Recall a stored map



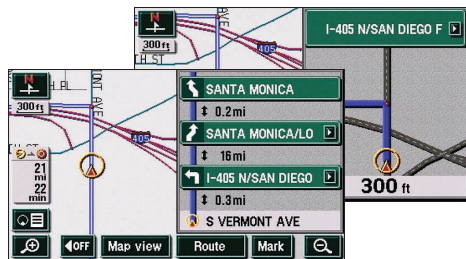
Route setting

- Confirm routes to your destination
- Select a preferred route
- Add stops along the way



Route guidance


- Start guidance
- Receive intersection guidance, etc.



4 Route Search (indicate destination)

Deciding on a destination and starting a route search

Give information on the desired destination and perform a search.

- ① Searching by moving the map to the desired destination "Enter"
- ② Returning home (when your home is registered) "Home" ( : Registered mark)"
- ③ Searching by intersection name. "Intersection"
- ④ Searching by freeway entrance/exit name. "Freeway ent./exit"
- ⑤ Searching by the latitude/longitude of the destination "Coordinates"

You can also search for a location using a POI name or the "Previous" function.

For details, see "Map retrieval methods" in the "Owner's manual/Navigation".



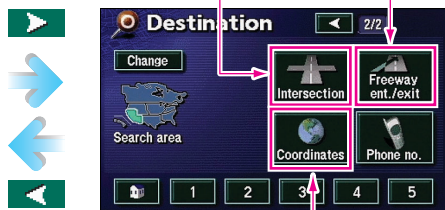
① After moving the map

③ Search using the intersection name

④ Search using the freeway exit/entrance name



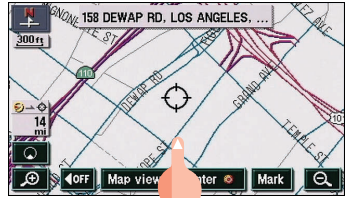
② Return home



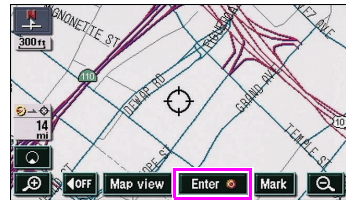
⑤ Search using latitude/longitude

Searching by moving the map

1 Touch the map to move the  mark.



2 Touch **Enter**.

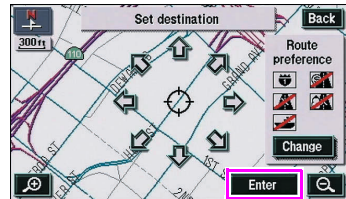



3 Touch  and align the mark with the destination.

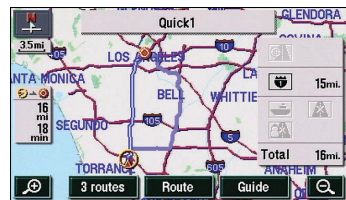


4 Touch **Enter**.

- The  mark appears on the  mark.



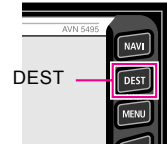
- The entire route from the present location to the  symbol will be searched for and displayed.



- The entire route is displayed.

Returning home

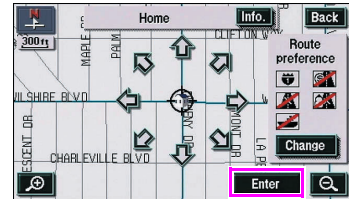
- 1 Press **DEST** .



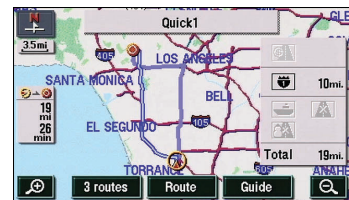
- 2 Touch  (if registered).



- 3 Touch **Enter** .



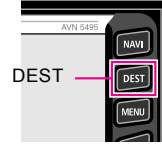
- The entire route from the present location to your home will be searched for and displayed.



- The entire route is displayed.

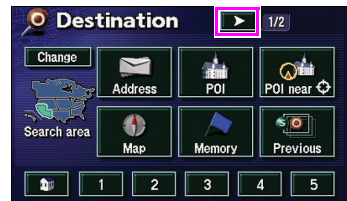
Searching using the intersection name

1 Press **DEST** .



2 Touch  .


- If the currently selected search area is different to the destination area, touch **Change** and change the area.



3 Touch **Intersection** .

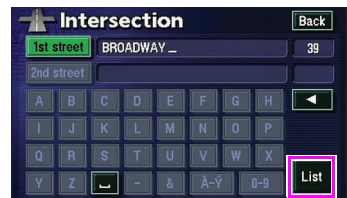


4 Touch one letter at a time to enter the street name.





- If you make a mistake, touch  to delete one letter at a time.
- When there are 5 or less search results, the screen automatically switches to a list of potential names.




5 Touch **List** .



6 Touch the relevant street name.






- Touch  ,  ,  or  to display different list screens. For details, see "Switching the list screens" in the "Owner's manual/Navigation".

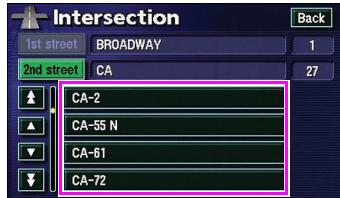
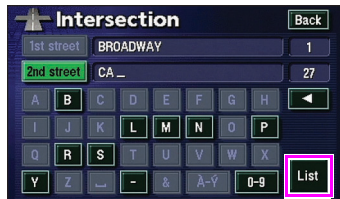
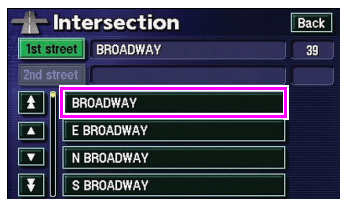
7 Touch one letter at a time to enter the street name.

- If you make a mistake, touch  to delete one letter at a time.
- When there are 5 or less search results, the screen automatically switches to a list of potential names.


8 Touch **List** .

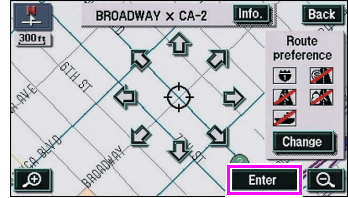
9 Touch the relevant street name.

- You can scroll through the letters by touching  .
- Touch  ,  ,  or  to display different list screens. For details, see "Switching the list screens" in the "Owner's manual/Navigation".

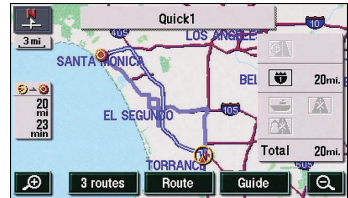


10 Touch Enter .

- Touch  to move the map.



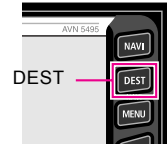
- The entire route from the present location to the destination appears.



- The entire route is displayed.

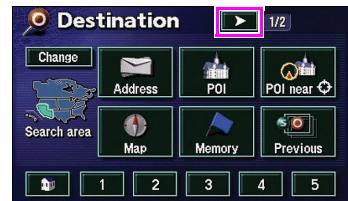
Searching using a freeway entrance/exit name

1 Press **DEST** .

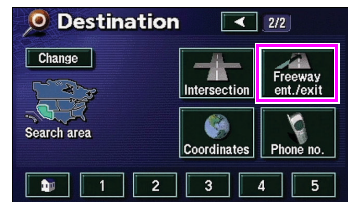


2 Touch  .


- If the currently selected search area is different to the destination area, touch **Change** and change the area.



3 Touch **Freeway ent./exit** .







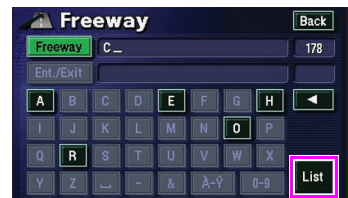
4 Touch one letter at a time to enter the freeway name.

- If you make a mistake, touch  to delete one letter at a time.
- When there are 5 or less search results, the screen automatically switches to a list of potential names.

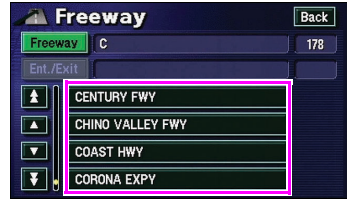


5 Touch **List** .

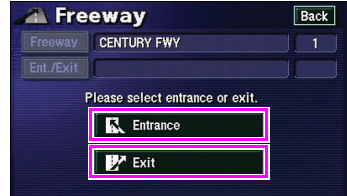
- Touch , ,  or  to display different list screens. For details, see "Switching the list screens" in the "Owner's manual/Navigation".



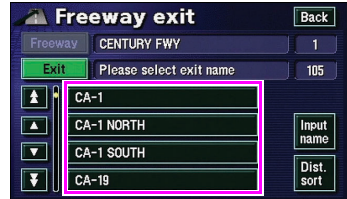
6 Touch the relevant freeway name.








7 Touch either **Entrance** or **Exit** to specify a freeway entrance or exit.




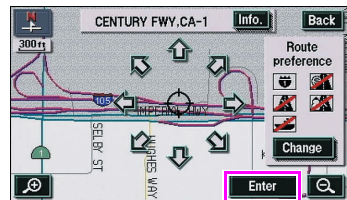
8 Touch the corresponding entrance/exit name.



- Touch , ,  or  to display different list screens. For details, see "Switching the list screens" in the "Owner's manual/Navigation".
- The list can be narrowed down by touching **Input name** and entering the entrance/exit name.
- You can scroll through the letters by touching .

9 Touch **Enter**.

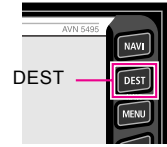
- Touch  to move the map.
- The entire route from the present location to the destination appears.



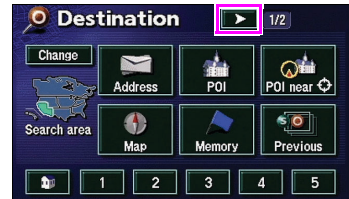
- The entire route is displayed.

Searching using latitude/longitude

1 Press **DEST** .




2 Touch  .

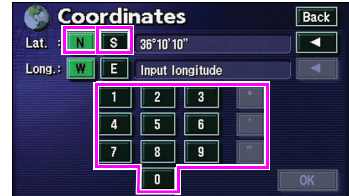


3 Touch **Coordinates** .




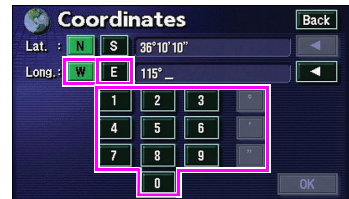
4 Enter the latitude ("Lat.") one number at a time by touching the switches on the screen.

- If you make a mistake, touch  to delete one number at a time.
- Touch **N** or **S** to switch between north latitude and south latitude. If the geographical point entered is not within the area recorded in the map data, a map will not appear.

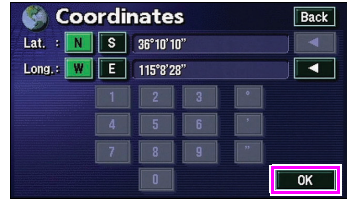


5 Enter the longitude ("Long.") one number at a time by touching the switches on the screen.


- If you make a mistake, touch  to delete one number at a time.
- Touch **W** or **E** to switch between west longitude and east longitude. If the geographical point entered is not within the area recorded in the map data, a map will not appear.

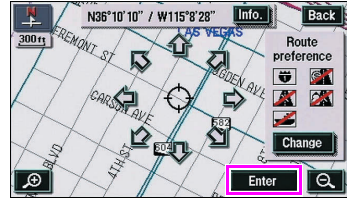


6 Touch **OK .**



7 Touch **Enter .**

- Touch  to move the map.



- The entire route from the present location to the destination appears.



- The entire route is displayed.

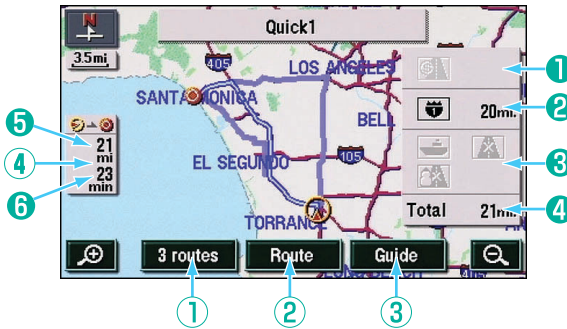
5 Route setting

Setting the desired route

After deciding on a destination, recommended routes from the present location to the destination are searched for and displayed on the screen.

Routes to the destination will be shown on the screen and the required time and distance to the destination will be displayed. This is called the **"All-route display"**.

From the all route diagram, you can check the progress of your journey, select a different route and add stops along the route.



About displays

①	Toll road distance display	All toll road distances to the destination are displayed.
②	Freeway distance display	All freeway distances to the destination are displayed.
③	Used road overview display	Icons for ferry crossings and restricted roads up to the destination will be active if these are included in the route.
④	Distance display	The distance to the destination is displayed (in case of multiple stops, distance to the last stop is displayed).
⑤	Remaining distance display	The distance remaining on the indicated route is displayed. In case of multiple stops, the required time and distance to each stop are displayed every time this switch is touched.
⑥	Required time display	The required time to the destination is displayed.

■ Touch switches

①	3 routes	Displays and enables the selection of different routes.
②	Route	Enables you to change the displayed route, add stops along a route, etc. (for details, see " Changing the search result route " in the " Owner's manual/Navigation ".)
③	Guide	Starts route guidance.
④	Required time/ Remaining distance	When there are 2 or more destinations, it is possible to switch between them by touching the Required time/ Remaining distance display (see " Switching the required time/remaining distance " in the " Owner's manual/Navigation ".)



ATTENTION

The route search produces a reference route up to the area in which the destination is located. In no way is it the shortest, fastest or least congested route.

Selecting another route

A total of 3 recommended routes will be displayed, Quick 1, Quick 2 and Short, from which you may select one.

1 Touch **3 routes** in the all-route display screen.

- The 3 routes will be displayed in different colors.



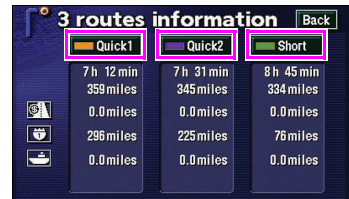
2 Touch **Info.** .

- Touch a route name (Quick1, Quick2, or Short) to display the entire selected route.



3 Touch the preferred route name.

- The entire selected route appears.



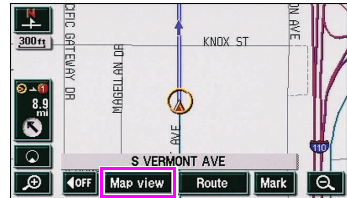
Checking the progression of your journey

1 Touch **Guide** in the all-route diagram display.

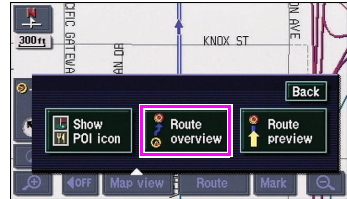
- Route guidance begins and a map showing your current position is displayed.



2 Touch **Map view**.



3 Touch **Route overview**.

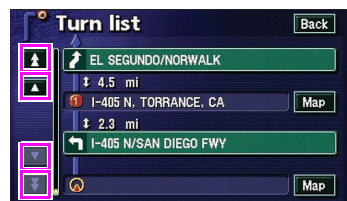


4 Touch **Turn list**.



5 Touch **▲**, **▲** or **▼**, **▼**.

- The route information is displayed in segments divided by intersections, turning points in the road, etc.
- Touch **Map** to display the map for that area.

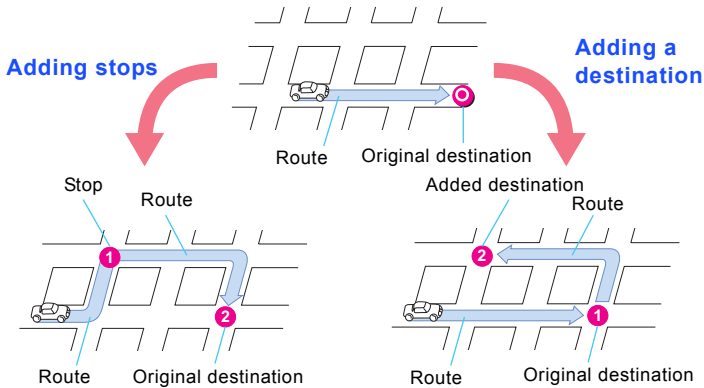


Viewing the Turn list

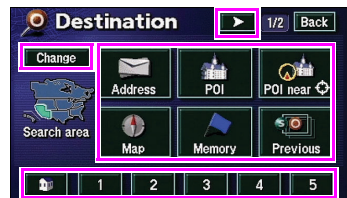
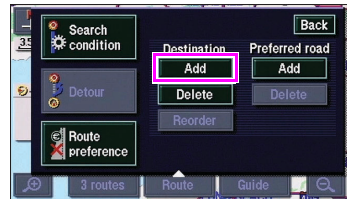


Adding stops along the route

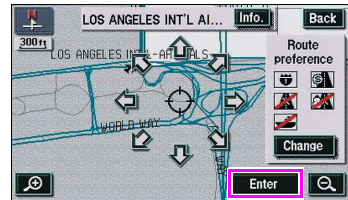
You can change the route in advance if, for example, you want to pick up a friend on the way to your destination or add another destination further away than the original one.



- 1 Touch **Route** in the all-route diagram display.
 - 2 Touch **Add** for Destination.
 - 3 Touch on the stop or destination retrieval method you want to use.
- See "Map retrieval methods" in the "Owner's manual/Navigation" for information regarding retrieval methods.

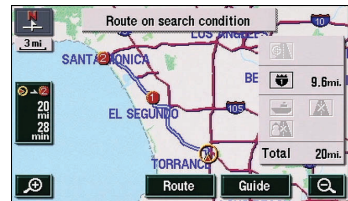
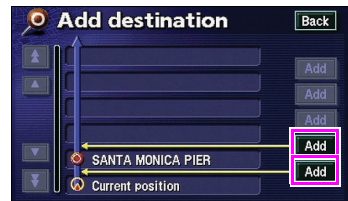


4 Touch **Enter** in the retrieved map.



5 Touch **Add** next to the segment you want to add to.

- An all-route diagram display will appear with the changes.
- If the point you set is between the present location and your destination, the addition becomes a stop.
- Setting a point after the destination will make it the next destination.
- Up to 5 stops and added destinations can be set. Repeat steps 2 through 5 for each setting.



- The entire route is displayed.

6 Route guidance

About route guidance

Start driving and the device switches screens for each set instruction point. (such as intersections and freeways) in accordance with the movement of your vehicle. Also, each instruction point is clearly announced.

Present location screen during route guidance

Depending on the route you take, reference points will be explained using various screens.

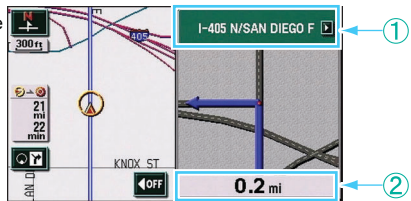
Announcing intersections

Present location



When 0.3 miles (0.4 km) from the intersection...

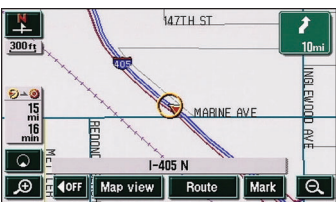
Intersection enlargement display



- ① **Intersection name display** The name of the junction intersection is displayed.
- ② **Remaining distance display** The distance up to the intersection is displayed.

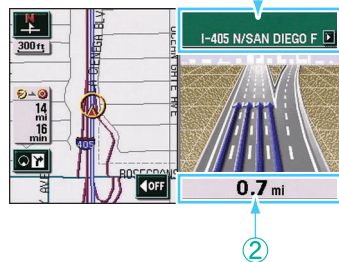
Freeway guidance

Driving on the freeway



When approaching an interchange or junction...

Junction guidance



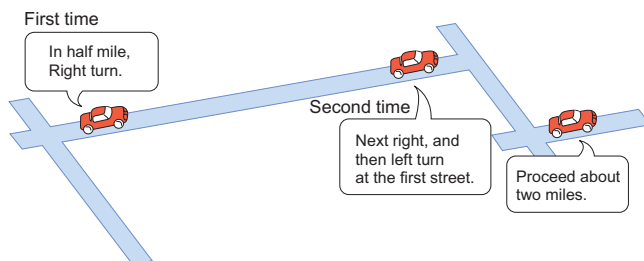
- ① **Road name display** The name of roads taken is displayed.
- ② **Remaining distance display** The distance up to the junction point is displayed.

Voice route guidance

During route guidance, the distance up to a reference point and other information based on road conditions and vehicle speed are clearly announced.

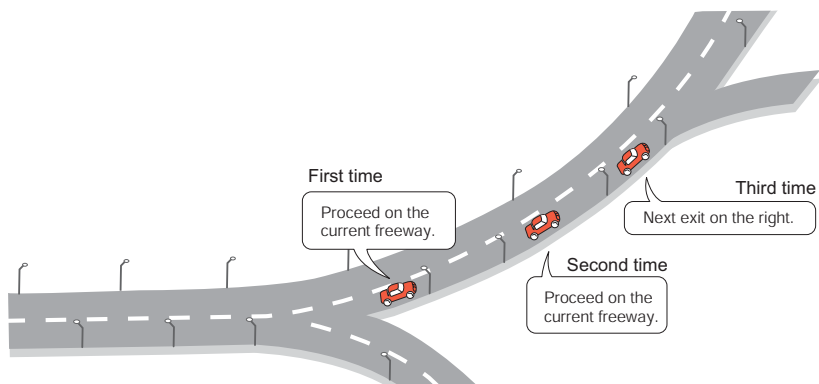
■ When on a local road

Intersection names, the distances remaining up to intersections and the direction of the turn to be made are announced vocally in accordance with vehicle speed.



■ When on a freeway

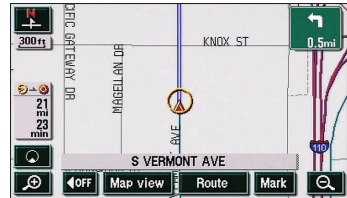
When about 1 mile from an interchange or junction, the freeway junction guidance screen appears and a voice announces your direction and heading. At tollbooths, the voice guidance will announce the appropriate heading.



Start driving following the route guidance

1 Touch **Guide** in the all-route diagram display.

- The present location screen appears.



2 Start driving.



ATTENTION

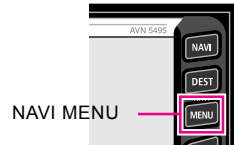
If you go off the set route

Even if you drive off the set route, the device will automatically make an adjustment to return you to the guided route (auto search function). For details, see "Auto reroute search" in the "Owner's manual/Navigation".

Stopping/resuming guidance

Guidance can be stopped and restarted while in progress.

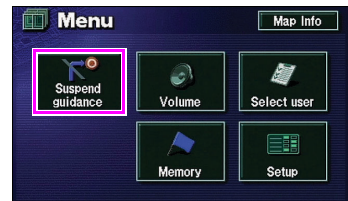
- 1 Press **NAVI MENU** to retrieve the Menu screen.




Stopping guidance

- 2 Touch **Suspend guidance**.

- Guidance is stopped.



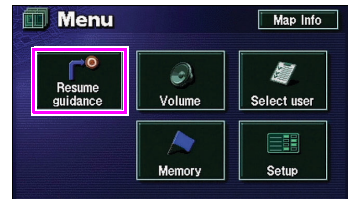
- The route on the map disappears (the  mark for the destination remains).



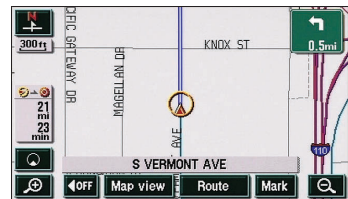
Restarting guidance

- 2 Touch **Resume guidance**.



- Guidance is restarted.



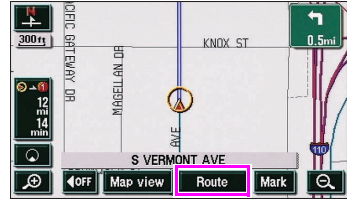
- The route is redisplayed on the map.



Deleting the destination

The set destination can be erased. The set  mark does not disappear even after you have arrived at your destination according to the prescribed route. It can be deleted by performing the operation described below (however, this old  mark will disappear when a new destination is set.)

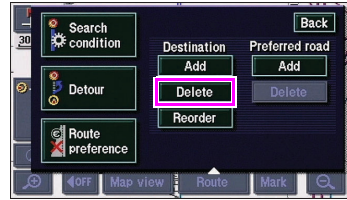
1 Touch **Route** .



2 Touch **Delete** for Destination.

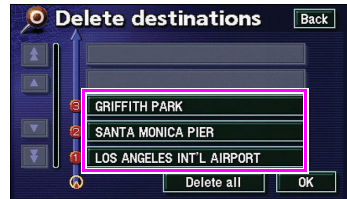
- If there is only one destination, proceed to step

4 .



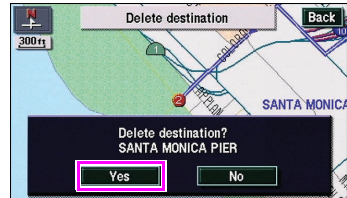
3 Touch the destination name to be deleted.

- Touch **Delete all** to erase the entire list.



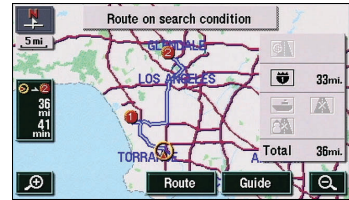
4 Touch **Yes** .

- If all destinations are erased, the map will display your current position.



5 Touch **OK** .

- If there are destinations remaining, the device will automatically search the remaining destination(s) and an all-route diagram will be displayed.

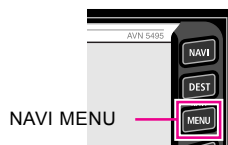


7 Other settings

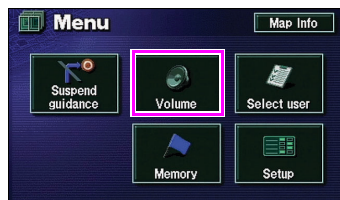
Adjusting the volume for navigation

It is possible to adjust the voice volume during route guidance.

- 1 Press **NAVI MENU** to retrieve the Menu screen.

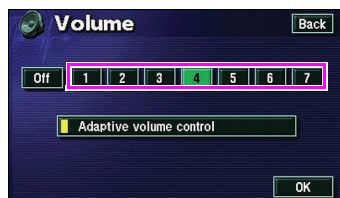


- 2 Touch **Volume**.

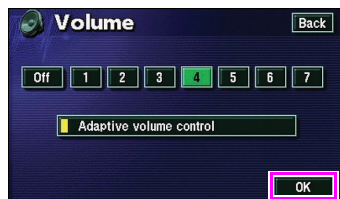


- 3 Touch **1** to **7** to select the preferred volume level.

- Touch **Off** to set the volume to mute.



- 4 Touch **OK**.

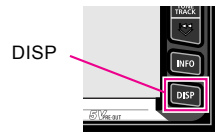


The panel buttons (used to set radio volume etc.) cannot be used to set the navigation volume. Therefore, please set using the procedure described above.

Turning off the navigation screen

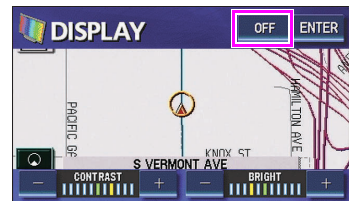
The map screen can be turned off when you are not using the navigation system.

- 1 Press **DISP** to retrieve the image quality adjustment screen.

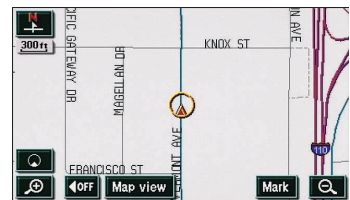


- 2 Touch **OFF**.


- The contrast and brightness can be adjusted from the image quality adjustment screen. For details, see "Screen adjustment" in the "Owner's manual/Navigation".



- 3 Press **NAVI** to return to the navigation screen.



Correcting the present location



Even if the vehicle position mark  on the map is misaligned, continue driving for a moment and the device will automatically correct the present location using map-matching and GPS data.

In the event that GPS data cannot be used and the present location is not automatically corrected, park your vehicle in a safe place and manually correct the present location.

The present location must be corrected in the following situations.

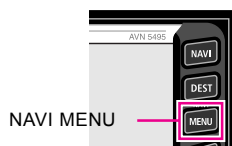
- When changing a tire, perform an automatic correction. ([Distance correction](#))

The present location should be corrected in the following situations.

- If the vehicle position mark  appears in a location different to the actual present location (is misaligned), the vehicle position mark  position and heading should be corrected. ([Present location correction](#))

Correcting the present location

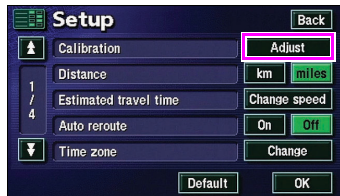
- 1 Press **NAVI MENU** to retrieve the **Menu** screen.



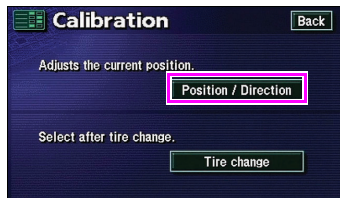
- 2 Touch **Setup**.



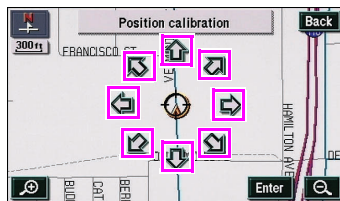
3 Touch **Adjust** for Calibration.



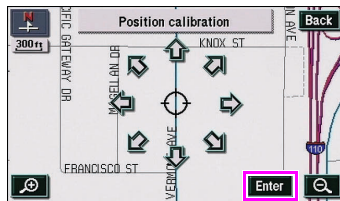
4 Touch **Position/Direction**.




5 Touch  and move the map to the actual present location.





6 Touch **Enter**.

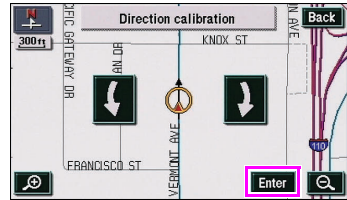
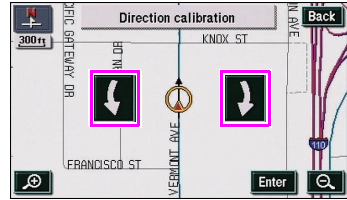


Correction must be made on a detailed map with a reduction scale of under 0.5 miles.

7 Touch  or  to set the heading.

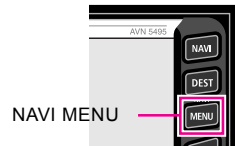
- To move the heading counterclockwise, touch  .
To move it clockwise, touch  .

8 Touch **Enter** .

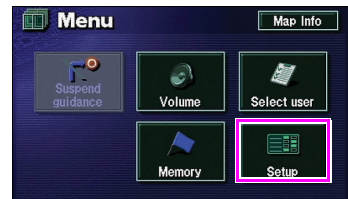


Distance correction

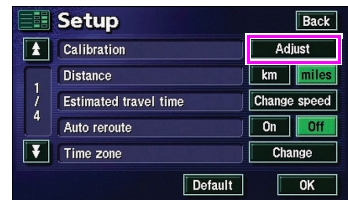
- 1 Press **NAVI MENU** to retrieve the Menu screen.



- 2 Touch **Setup**.




- 3 Touch **Adjust** for Calibration.



- 4 Touch **Tire change**.

- Automatic correction is performed.



- This device uses GPS and vehicle speed signals to automatically correct distance. However, when large deviations occur (such as when changing a tire or reinstalling the device on another vehicle), distance correction may take some time. In such a case, drive for about 6 miles on a road with favorable GPS signal reception.
- If the device cannot make a correction, take it to the store of purchase for an inspection.
- Vehicle position may be misaligned during auto correction.
- As a result of the on board distance compensation learning function, there may be variations in the progression of the vehicle position mark  depending on the driving conditions, even if automatic correction has been completed.

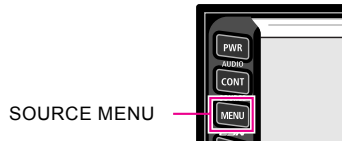
1 How to switch the audio source

Switching the audio source

Switching to FM

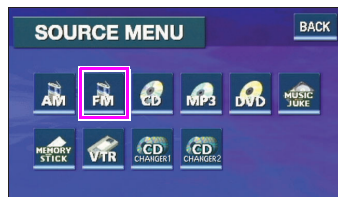
1 Press **SOURCE MENU** .

- The SOURCE MENU screen appears.



2 Touch **FM** .

- Touch the desired source to display that source on the screen.
- The on-screen display will automatically disappear. (For details, see page 29.)



- It is not possible to switch to CD, DVD, "MEMORY STICK", or MP3 if the relevant media is not inserted.
- See page 18 for information regarding inserting discs or a "Memory Stick".

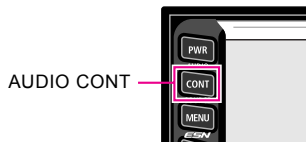


- On-screen display screen

Retrieving the operation screen

1 Press **AUDIO CONT** .

- The operation screen will appear.
- The operation screen for each source is displayed as shown on page 80.




- FM operation screen

Switching audio sources easily

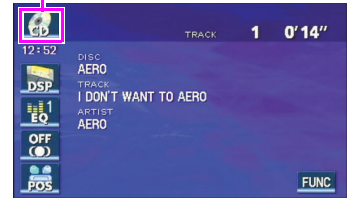
The SOURCE MENU screen can easily be displayed from the audio/DVD/VTR operation screens.

- 1 Touch the **SOURCE MENU RECALL** switch in the audio/DVD/VTR operation screens.

- 2 Touch the switch for the preferred source.

- The operation screen for the selected source appears.
- Touch  to return to the original operation screen.

SOURCE MENU RECALL



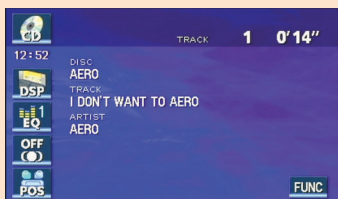
AM radio operation screen



FM radio operation screen



CD operation screen



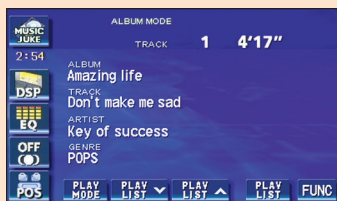
MP3 operation screen



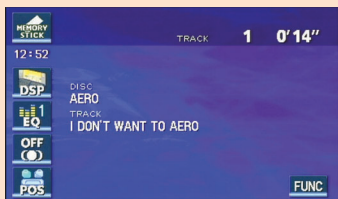
DVD operation screen



MUSIC JUKE operation screen



"Memory Stick" operation screen



CD changer operation screen (optional)



The device can automatically switch to the navigation screen or another screen after an audio operation screen has been displayed. For details, see **"Adjusting/setting the screen"** in the **"Owner's manual/Audio"**.

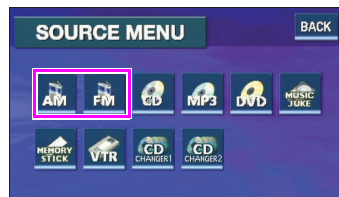
2 AM/FM radio operation

Listening to the AM/FM radio

Selecting the radio as the source

- 1 Touch **AM** or **FM** in the **SOURCE MENU**.

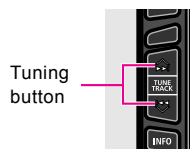
- The SOURCE MENU can be displayed by touching the SOURCE MENU RECALL switch.



Saving preferred broadcast stations

- 1 Press **▼/◀◀** or **▲/▶▶**.

- Manual tuning...Press briefly to change by one step.
- Automatic tuning...Press until you hear a beep to select stations automatically.



- 2 Touch a preset switch until you hear a beep.

- Touch a preset switch to switch to a saved broadcast station.



Preset switches

Automatically searching for and saving broadcast stations

■ Use the AUTO PRESET function

This convenient function can search for broadcast stations with a strong signal and record them temporarily into preset switches. If the preset stations are not needed, you can easily be switched back to the broadcast stations originally recorded.

1 Touch **FUNC** .

- The FUNCTION switch appears.



2 Touch **AUTO.P** until you hear a beep.

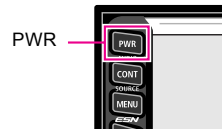
- Touch **AUTO.P** again to switch the display to the original saved broadcast stations.
- Touch **FUNC** to hide the FUNCTION switch.
- If the FUNCTION switch is displayed, the other switches cannot be operated.



Turning off the radio

1 Press **PWR** .

- Press again and the broadcast station signal last received will be tuned in.



3 CD/MP3 player operation

Listening to a CD/MP3 file

Playing a CD/MP3

■ When no disc is inserted

1 Insert a disc into the slot.

- Playback will automatically start.

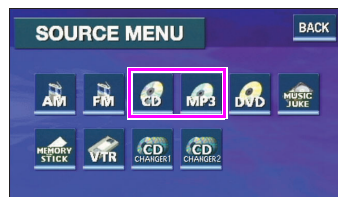


When a CD (album) is inserted into the disc slot, recording automatically starts when playback begins. "● REC" is displayed while recording is in progress. Press and hold **● REC** for at least one second to stop recording. (For details, see "MUSIC JUKE operation" on page 88.)

■ When a disc is inserted

1 Touch **CD** or **MP3** in SOURCE MENU.

- The SOURCE MENU can be displayed by touching the SOURCE MENU RECALL switch.

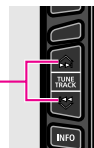


Selecting the desired track or music file

1 Press **V/◀◀** or **▶▶/A**.

- Use to switch to the next track when playing a CD or to the next music file when playing MP3s.

Track selection
(track start point)/
fast-forward
(rewind)
buttons

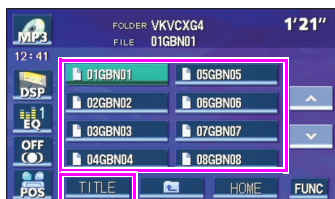


Easy folder and music file selection (MP3 player)

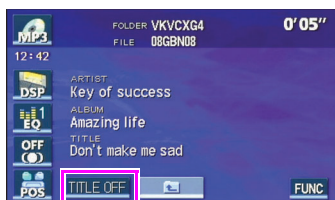
The unit can play music data compressed using MP3 compression technology. Managing music data into folders according to music type makes searching for a particular preferred track convenient.

1 Touch folder () or music file ().



- Touch a folder and the data stored in it will appear. Touch a music file to play that file.
- Touch **TITLE** to view the file information stored for the track being played (artist name, album name, song title).



Touch **TITLE OFF**   Touch **TITLE**



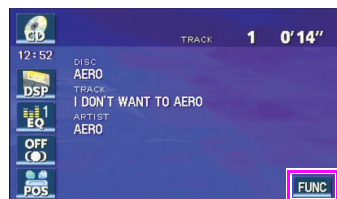
ATTENTION

- When there are 9 or more music files in the same folder, touch  or  to display different data. (This function is not available when the vehicle is in motion.)
- The file information (artist name, album name, song title) may not appear depending on the way the MP3 was compiled. For details, see "How to operate the MP3 player" in the "Owner's manual/Audio".

Repeating the same song

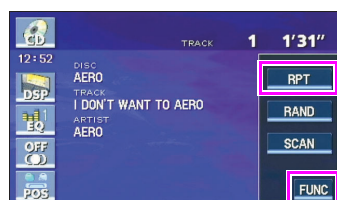
1 Touch **FUNC** .

- The FUNCTION switches appear.



2 Touch **RPT** .

- Touch **FUNC** to hide the FUNCTION switches.
- If the FUNCTION switches are displayed, the other switches cannot be operated.



Turning off the CD/MP3 player

1 Press **PWR** .

- Press again to resume playback of the last track or music file that was played.
- Recording will continue even if **PWR** is pressed.



4 "Memory Stick" player operation

Listening to "Memory Stick" data

This unit can play music recorded on an "MG Memory Stick" (white).

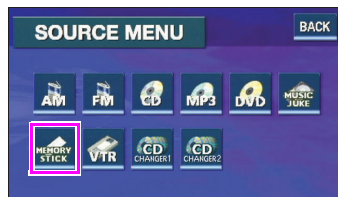
Playing "Memory Stick" data

■ When no "MG Memory Stick" is inserted

1 Insert the "MG Memory Stick" into the slot and close the display.

2 Touch **MEMORY STICK** in the **SOURCE MENU**.

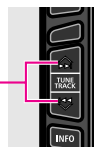
- The SOURCE MENU can be displayed by touching the SOURCE MENU RECALL switch.
- Playback will begin.



Selecting music data

1 Press **V/I◀◀** or **^/▶▶**.

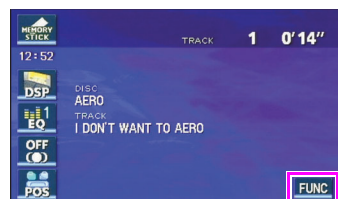
Track selection
(track start point)/
fast-forward
(rewind)
buttons



Repeating the same song

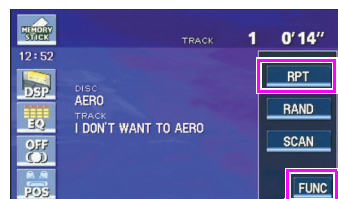
1 Touch **FUNC** .

- The FUNCTION switches appear.



2 Touch **RPT** .

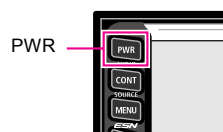
- Touch **FUNC** to hide the FUNCTION switches.
- If the FUNCTION switches are displayed, the other switches cannot be operated.



Stopping playback

1 Press **PWR** .

- Press again to resume playback of the last music data that was played.



5 MUSIC JUKE operation

About MUSIC JUKE

MUSIC JUKE can record music or audio from the built-in CD player or radio etc. Also, the Auto-titling function automatically attaches the album name, artist name, genre and other information to recorded music so that this information can be used in a search to easily retrieve preferred tracks.

About recording

About sources and recording styles that allow recording

Recordable sources	Recording style
CD player (Not MP3)	Digital recording
CD player (only CDs with digital recording restriction), VTR (audio), radio, CD changer	Analog recording

Recording style and operation

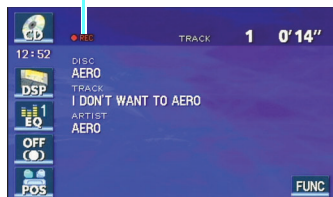
Recording style		Operation
Digital recording	AUTO	Recording automatically starts when a CD is inserted.
	MANUAL	Press ●REC during playback to start recording.
Analog recording	MANUAL	Press ●REC to start recording.

MUSIC JUKE will continue to record even if the source is switched or the audio is turned OFF while digital recording is in progress.

Viewing the recording screen

The following screen is displayed while recording is in progress.

REC mark (●REC is displayed during recording. ● is displayed while waiting for recording to start.)



About Auto-titling

This unit has music information (album name, artist name, etc.) for 230,000 tracks (titles) stored in the database. When digitally recording a music CD, the MUSIC JUKE uses "Gracenote CDDB[®] Music Recognition Service" (for details, see "**How to operate MUSIC JUKE**" in the "**Owner's manual/Audio**") to search the database for the relevant album name, artist name, track title, etc. and assigns it to the music data recorded.

■ Relevant information available for digital recording

- Album name list created
- Artist name list created
- Track name list created
- Genre list created
- Date recorded list created

■ Relevant information not available for digital recording

■ Analog recording

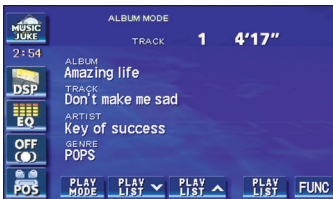
- List created for album name CD/ALBUM/0001*¹
- List created for track name 2005.03.11/CD/0001*²
- Date recorded list created

*1: audio source/ALBUM/4-digit number

*2: Date recorded/audio source/4-digit number

Viewing operation screens

■ Playback screen



PLAY MODE

Switches play mode in the playback screen.

PLAY LIST

Displays the play mode selection screen.

SET

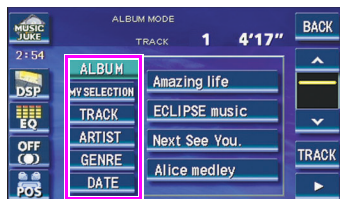
The recording style (see page 92) and recording bit rate can be switched.

EDIT

Names can be edited and original lists created.

(For details, see "**How to operate MUSIC JUKE**" in the "**Owner's manual/Audio**".)

■ Search screen (play mode selection screen)



Play mode switch*

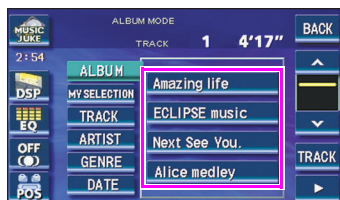
This switch changes the play mode in which lists are stored.

<Example>

When searching by album name, touch **ALBUM**.

* In MY SELECTION you can record an original list created according to your own preferences. (For details, see "How to operate MUSIC JUKE" in the "Owner's manual/Audio".)

■ Search screen (playlist selection screen)



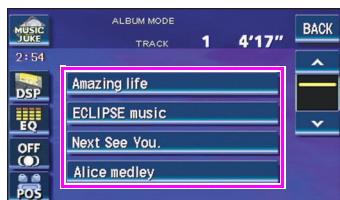
PLAYLIST switch

Displays the names of lists in each play mode.

<Example>

In the ALBUM play mode, there is a list for each of the following album names: "Amazing life" / "ECLIPSE music" / "Next See You." / "Alice medley".

■ Search screen (track selection screen)



Track (song) name switch

Displays the names of tracks (songs) in each playlist. Touch the track name of a song to start playback.

See "Selecting a track (song)" on page 93 for information regarding screen display method.

Recording in MUSIC JUKE

What follows is an explanation of how to record a music CD from the CD player.

Automatic recording

Switch digital recording to AUTO before starting operation.

1 Insert the CD into the slot.

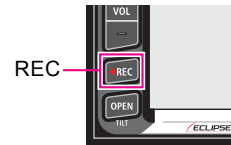
- Recording starts.
- Recording automatically stops when the CD has been completely recorded. Only tracks that have been completely recorded can be played back.



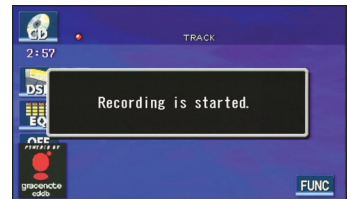
Recording preferred tracks

Switch digital recording to MANUAL before starting operation.

- 1 Play the CD.
- 2 Select the track (song) you want to record.
- 3 Press **REC** for at least one second.

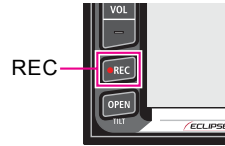


- Recording starts.
- When **REC** is pressed during a song, the system returns to the start of that song and recording begins.



Stopping recording while in progress

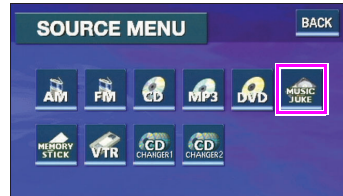
- 1 Press **REC** for at least one second while recording is in progress.



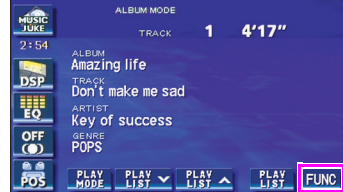
Switching to digital recording

Digital recording can be switched from AUTO to MANUAL.

- 1 Touch **MUSIC JUKE** in SOURCE MENU.



- 2 Touch **FUNC**.

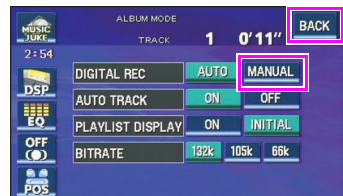


- 3 Touch **SET**.



- 4 Touch **MANUAL**.

- 5 Touch **BACK**.

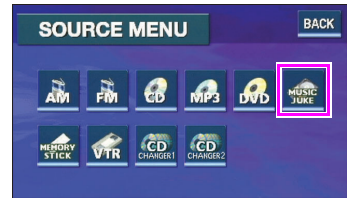


Listening to the MUSIC JUKE

Playing the MUSIC JUKE

1 Touch **MUSIC JUKE** in **SOURCE MENU**.

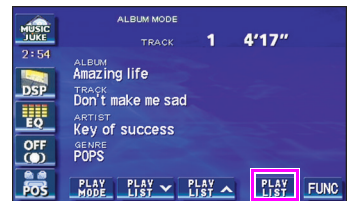
- The SOURCE MENU can be displayed by touching the SOURCE MENU RECALL switch.
- If the power was turned off during playback, MUSIC JUKE will resume playback from the beginning of the last track that was played.



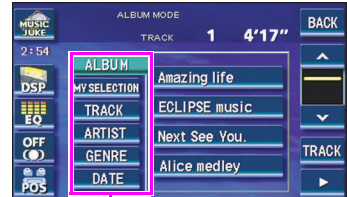
Selecting a track (song)

What follows is an explanation of how to choose a preferred track (song) from a list of playlists and tracks.

1 Touch **PLAYLIST**.




2 Touch a play mode and select a search method.

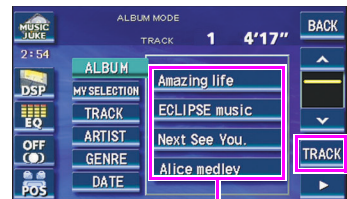


PLAY MODE

3 Touch the preferred playlist.

4 Touch **TRACK**.

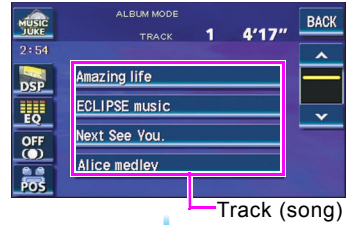
- Touch  to start playback of the first song in the playlist.



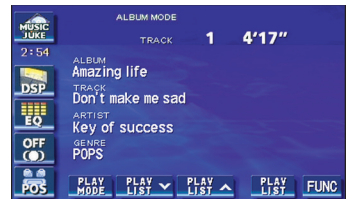
PLAYLIST

Audio

5 Touch a track (song).



- The track (song) information is displayed.



ATTENTION

When 4 or more lists are located in the same play mode, touch **▲** or **▼** to show lists not currently displayed.

Stopping playback

1 Press **PWR**.

- Press again to start playback from the point at which the last track (song) played was stopped.



Creating a personal album list

Creating an original list

It is also possible to create an original list containing a collection of preferred songs.

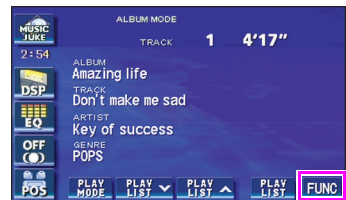
Up to 99 songs can be recorded in one playlist.

It is possible to search for created playlists in the MY SELECTION play mode.



Always record a track (song) into a newly created playlist. Even if a playlist is created it will not be registered unless it contains at least one track (song).

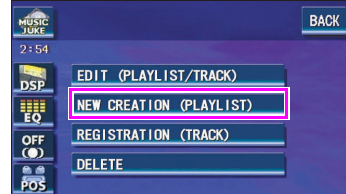
- 1 Touch **FUNC** in the MUSIC JUKE operation screen.



- 2 Touch **EDIT**.

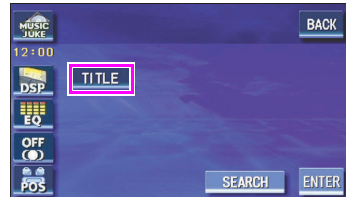


- 3 Touch **NEW CREATION (PLAYLIST)**.

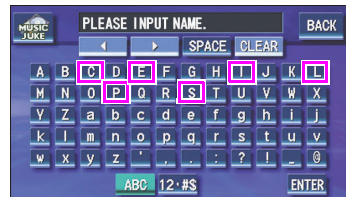


■ The album list is titled "ECLIPSE".

4 Touch **TITLE** .



5 Touch **E** , **C** , **L** , **I** , **P** , **S** , **E** in this order.

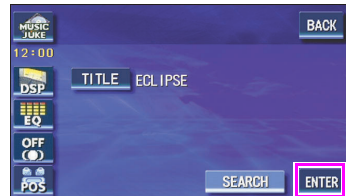


6 Touch **ENTER** .

- The title is registered.



7 Touch **ENTER** .



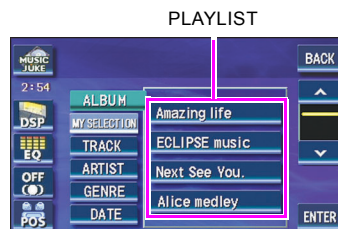
■ Record the track (song) in a playlist.

8 Touch a play mode.



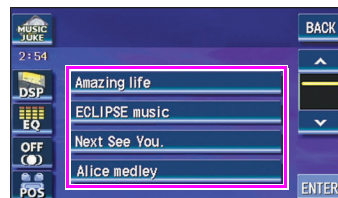
9 Touch a playlist.

- Touch **▲** or **▼** to display different lists.



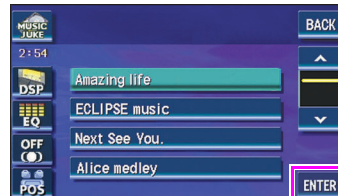
10 Touch the track (song) you want to record in the playlist.

- To record multiple tracks (songs) in the same playlist simultaneously, touch all of the relevant tracks.
- Touch **▲** or **▼** to display different lists.



11 Touch **ENTER**.

- The created playlist is recorded and the display returns to the **3** screen.



ATTENTION

"MUSIC JUKE" has many other editing functions.

For details, see **"How to operate MUSIC JUKE"** in the **"Owner's manual/ Audio"**.

6 DVD player operation

Viewing a DVD video

Playing a DVD

When no DVD inserted

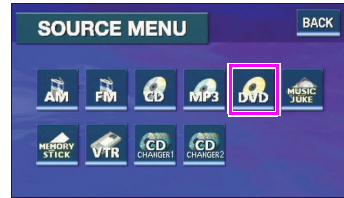
1 Insert a DVD into the slot.

- Playback will automatically start.

When a DVD is inserted

1 Touch **DVD** in SOURCE MENU.

- The SOURCE MENU can be displayed by touching the SOURCE MENU RECALL switch.






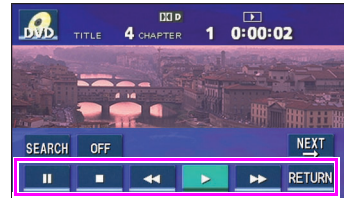
Some DVDs may not playback automatically. In this case, start playback from the disc menu stored in the DVD.







Manipulating the image

The image being played can easily be manipulated.

1 Touch the operation switch.

- While paused () briefly touch  for slow motion playback, or  for frame-by-frame playback.



Touch switch	Function	Touch switch	Function
	Starts playback.		Fast-forwards. Touch while paused for slow motion playback.
	Stops playback.		Rewinds.
	Pauses playback. Briefly touch  while paused for frame-by-frame playback.	RETURN	Moves to a specified position on the disc and starts playback.

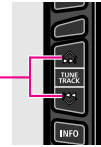


Press **AUDIO CONT** or touch the screen to display the DVD operation screen.

Selecting a chapter

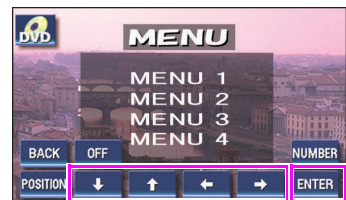
- 1 Press **⏮** or **⏭** .

Track selection
(track start point)/
fast-forward
(rewind) buttons



Operating the disc menu

- 1 Touch **NEXT** .
- 2 Touch **MENU** or **TOP MENU** .
- 3 Touch **⏏** .
- 4 Touch **↓** **↑** **←** or **→** to select the desired item.
- 5 Touch **ENTER** .

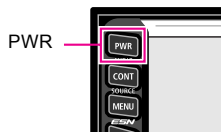


The menu screens displayed differ depending on the DVD disc.

Stopping the DVD

1 Press **PWR** .

- Press again to output the audio for the most recently played DVD.
- Press **AUDIO CONT** to display the DVD screen.



7 How to adjust the sound

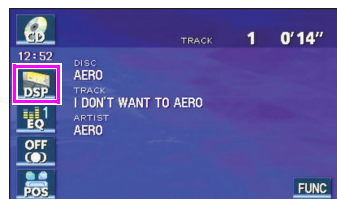
Adjusting the sound

You can use the EQ function to finely adjust sound and the DSP function to simulate different performance environments. The acoustic field can also be set to center around a desired position in the vehicle (POS), and the volume and balance for each speaker separately adjusted (FADER BALANCE).

Setting DSP

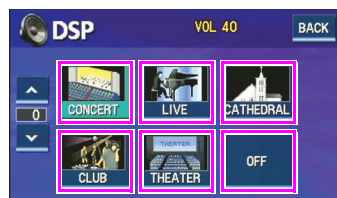
1 Touch **DSP** .

- Touch **NEXT** then **SET** for a DVD, or **SET** for a VTR to display **DSP** .



2 Touch the desired acoustic field switch.

- Touch **BACK** to save settings and return to the previous screen.

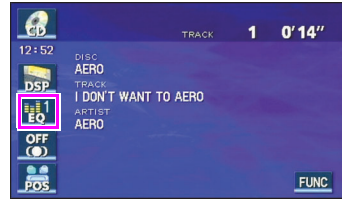


Touch switch	DSP Environment
CONCERT	Simulates concert hall acoustics
LIVE	Simulates live performance acoustics
CATHEDRAL	Simulates cathedral acoustics
CLUB	Simulates disco/club acoustics
THEATER	Simulates movie theater/theater acoustics
OFF	DSP OFF

Setting the EQ

1 Touch **EQ** .

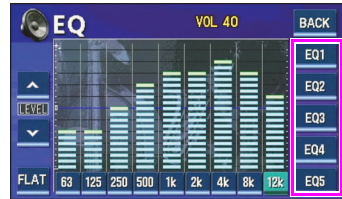
- Touch **NEXT** then **SET** for a DVD, or **SET** for a VTR to display **EQ** .



■ Selecting the set equalizer curve

2 Touch **EQ1** to **EQ5** .

- Touch **BACK** to save settings and return to the previous screen.



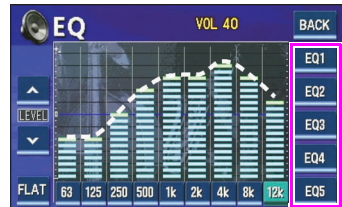
Touch switch	Equalizer Mode	Touch switch	Equalizer Mode
FLAT	No EQ correction	EQ3	JAZZ effect curve
EQ1	POPS effect curve	EQ4	CLASSIC effect curve
EQ2	ROCK effect curve	EQ5	VOCAL effect curve

■ Creating an equalizer curve

2 Touch the screen when the desired equalizer curve image appears.

3 Touch **EQ1** to **EQ5** until you hear a beep.

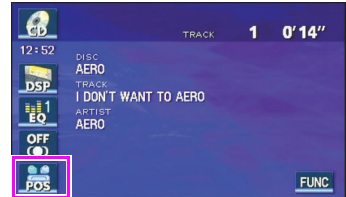
- The equalizer curve just created is recorded into the selected touch switch.
- Touch **BACK** to save settings and return to the previous screen.



Setting the POS

1 Touch **POS** .

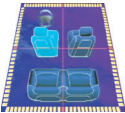
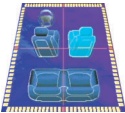
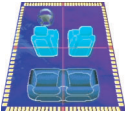
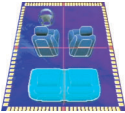
- Touch **NEXT** then **SET** for a DVD, or **SET** for a VTR to display **POS** .



2 Touch **POSITION** (seat).

- Touch **BACK** to save settings and return to the previous screen.



Display	Position	Display	Position
	Driver's Seat		Passenger Seat
	Front Seats		Rear Seats

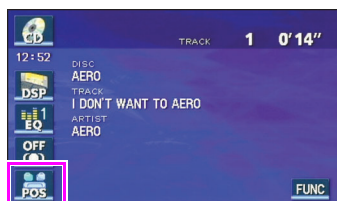


You cannot set POS at the same time as adjusting the balance (Next page).

Setting the FADER BALANCE

1 Touch **POS** .

- Touch **NEXT** then **SET** for a DVD, or **SET** for a VTR to display **POS**.



2 Touch **FAD/BAL** .



3 Touch the desired spot within the rectangle ().

- Touch **BACK** to save settings and return to the previous screen.



You cannot set FADER BALANCE at the same time as adjusting the POS (Previous page).

Other settings

Changing the guide tone used for switch operation

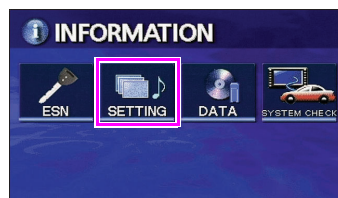
The beep sound made when a panel button is pressed or a touch switch is touched can be changed or turned off completely (mute).

- 1 Press **INFO** to retrieve the **INFORMATION** screen.



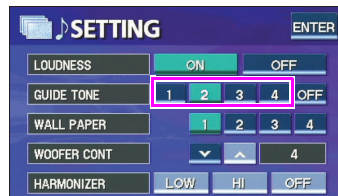
- 2 Touch **SETTING**.

- Various adjustments can be made from **SETTING**. For details, see "Basic operation" in the "Owner's manual/Audio".

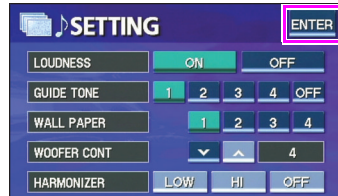


- 3 Touch **1**, **2**, **3**, or **4** to select the desired guide tone setting.

- Touch **OFF** (mute) to turn the guide tone off.



- 4 Touch **ENTER**.

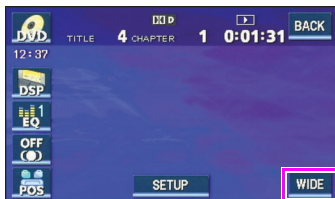


Switching the screen display size

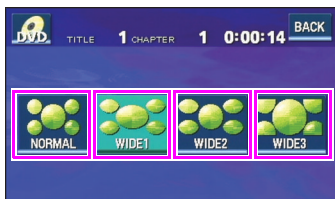
The screen size of DVD and VTR displays can be switched.

Switching the DVD/VTR display screen size

- 1 Touch **WIDE** .
 - For a DVD, touch **NEXT** then **SET** to display **WIDE** .

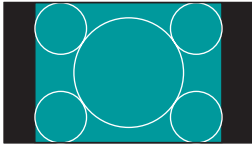


- 2 Touch the desired size.



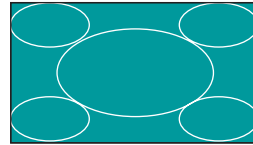
■ NORMAL mode

The screen is shown with a vertical to horizontal ratio of 3 to 4. The side edges are black.



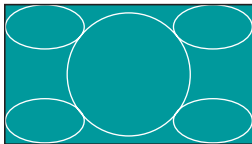
■ WIDE 1 mode

The screen is shown with a vertical to horizontal ratio of 3 to 4 and is expanded in the left and right directions. A wide screen effect can be displayed without any image loss.



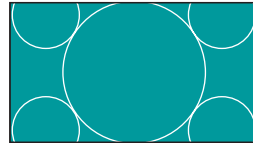
■ WIDE 2 mode

Only the left and right edges of the screen are stretched out. However, the vertical to horizontal ratio of 3 to 4 is maintained at the center of the screen to provide a comfortable wide screen image.



■ WIDE 3 mode

The screen is expanded in both the vertical and horizontal directions by the same ratio. The image is clipped slightly at the top and bottom edges.



Caution

Viewing images with a wide screen privately poses no problem legally, however, if the images are compressed or expanded for public or commercial viewing purposes, this action may infringe upon the rights of the creators of those images protected by applicable copyright laws. Please exercise caution.

ESN (ECLIPSE Security Network) operation

About ESN (ECLIPSE Security Network)

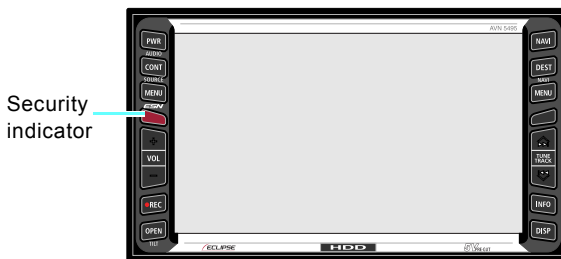
This product is equipped with ESN (ECLIPSE Security Network). The ESN system renders the navigation and audio functions of this unit inoperable in the event that the battery terminal is disconnected then reconnected.

The activation conditions and cancellation procedure for the security system are described below.

Item	Activation conditions	Cancellation procedure
"Memory Stick" security	Security function turned ON when the battery terminal is disconnected	Security function canceled if the "Memory Stick" pin code, unit pin code, security ID, and model name entered are all correct

■ Checking the status of the security function

When the function is activated, the security indicator flashes.



Registering a pin code for the unit and the "Memory Stick"

To cancel the ESN security function once it is set, either the pin code for the unit or a "Memory Stick" with a registered pin code is needed.

- A pin code should be 4 digits in length. The default pin code is set to "0000". It is recommended that you do not choose a pin number that might be easy to guess.

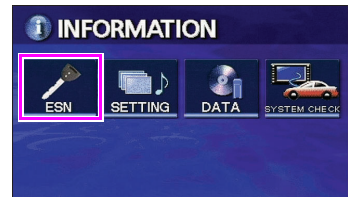
1 Insert the "Memory Stick" into the slot.

2 Press **INFO** .



3 Touch **ESN** .

- When performing security settings, audio is turned OFF.



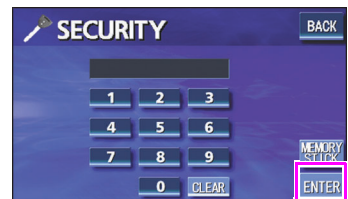
4 Touch **SETUP** .



5 Enter the current pin code as "0000".

- Touch **CLEAR** to erase numbers entered by mistake.

6 Touch **ENTER** .



ESN

Continue to the next page...➔

7 Enter the new pin code.

- The entered numbers will be displayed as asterisks "*".

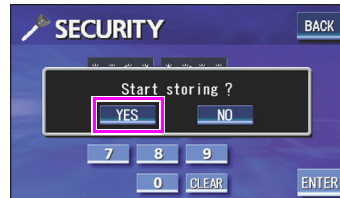
8 Touch **ENTER** .

9 Enter the pin code from Step 7 again for confirmation.

10 Touch **ENTER** .

11 Touch **YES** .

- The system will begin storing the pin code to the unit and "Memory Stick".
- When storing is complete, the display will return to the screen in Step 4 .



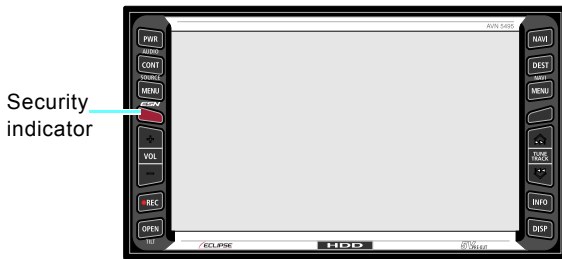
Both this registered pin code and the "Memory Stick" are needed when changing the pin code or canceling ESN security. It is recommended that you make a note of your registered pin code in case that you forget it or the "Memory Stick".

Activating ESN security

Activating "Memory Stick" security

"Memory Stick" security is activated once a pin code has been registered as shown in "Registering a pin code for the unit and the "Memory Stick"" on page 109.

- If Memory Stick security is activated, the navigation and audio functions of this unit will be rendered inoperable in the event that the battery terminal of the vehicle is disconnected then reconnected.



Canceling the ESN Security Lock (allows the main unit to be operated)

Canceling "Memory Stick" security

"Memory Stick" security can be canceled using a "Memory Stick" with a registered pin code.

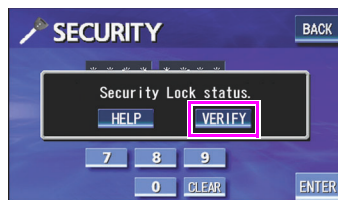
When the battery terminal has been disconnected then reconnected, the loading and opening screens are displayed followed by the SECURITY screen.

1 Insert the "Memory Stick" with a registered pin code into the slot.

- See "When inserting a "Memory Stick"" on page 20 for information regarding inserting Memory Sticks.

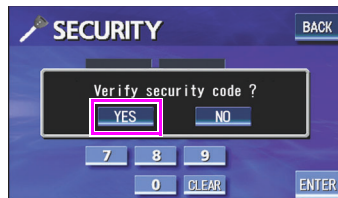
2 Touch **VERIFY** .

- When verification by the unit is complete, the Security Lock is canceled.



If the "Memory Stick" with a registered pin code, or data containing registration information such as the pin code, has been lost, touch **HELP** for at least 5 seconds. A screen appears in which you can choose whether or not to display the customer service screen.

3 Touch **YES** .



- It is possible to insert the wrong "Memory Stick" up to 5 times before cancellation becomes impossible. If verification fails, the customer service screen is displayed.
- If the customer service screen has been displayed, the unit cannot be operated. Should this occur, contact the store of purchase.

Changing the pin code

Change the registered pin code. The pin code can be changed in the following ways.

- Changing after first entering the current pin code.
- Changing the pin code after inserting a "Memory Stick" and verifying the pin code stored in the unit.

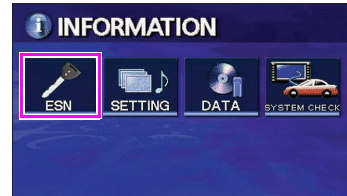
1 Insert the "Memory Stick" with a registered pin code into the slot.

2 Press **INFO** .



3 Touch **ESN** .

- When performing security settings, audio is turned OFF.



4 Touch **SETUP** .



■ When changing after first entering the current pin code

5 Enter the current pin code.

6 Touch **ENTER** .



7 Enter the new pin code.

- The entered numbers will be displayed as asterisks "*" .

8 Touch **ENTER** .



9 Enter the pin code from Step 7 again for confirmation.

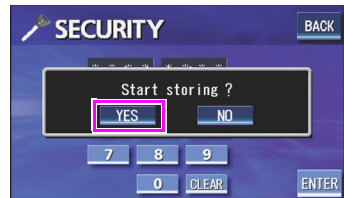
- The entered numbers will be displayed as asterisks "*" .

10 Touch **ENTER** .



11 Touch **YES** .

- The system will start storing the pin code to the unit and "Memory Stick".
- When storing is complete, the display will return to the screen in Step 4 .

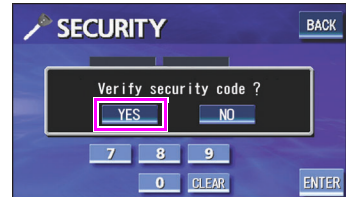


■ When changing the pin code after inserting a "Memory Stick" and verifying the pin code stored in the unit

5 Touch **MEMORY STICK** .



6 Touch **YES** .



7 Enter the new pin code.

- The entered numbers will be displayed as asterisks "*".

8 Touch **ENTER** .



9 Enter the pin code from Step 7 again for confirmation.

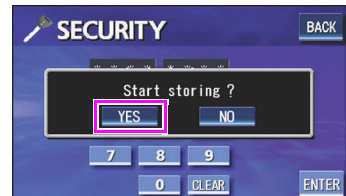
- The entered numbers will be displayed as asterisks "*".

10 Touch **ENTER** .



11 Touch **YES** .

- The system will start storing the pin code to the unit and "Memory Stick".
- When storing is complete, the display will return to the screen in Step 4 .



Deactivating the ESN security system

A new pin code needs to be registered in order to reactivate the ESN security system after turning it OFF. (See "**Registering a pin code for the unit and the "Memory Stick"**" on page 109)

The ESN security system can be deactivated in the following ways.

- Deactivating after first entering the current pin code.
- Deactivating after inserting a "Memory Stick" and verifying the pin code stored in the unit.

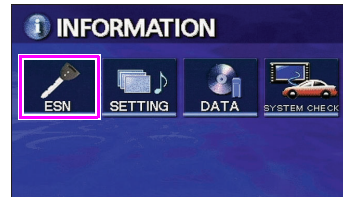
Deactivating "Memory Stick" security

1 Press **INFO** .



2 Touch **ESN** .

- When performing security settings, audio is turned OFF.



3 Touch **CANCEL** .



■ When deactivating after first entering the pin code

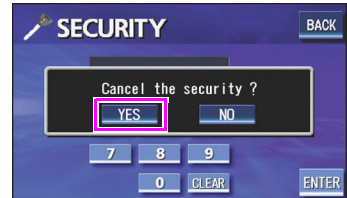
4 Enter the current pin code.

5 Touch **ENTER** .



6 Touch **YES** .

● The security system is deactivated.



■ When deactivating after inserting a "Memory Stick" with a registered pin code

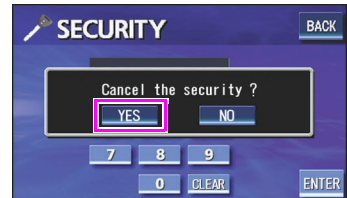
4 Insert the "Memory Stick" with a registered pin code into the slot.

5 Touch **MEMORY STICK** .



6 Touch **YES** .

● When verification with the unit is complete, the security system is turned OFF.



Setting the security indicator display

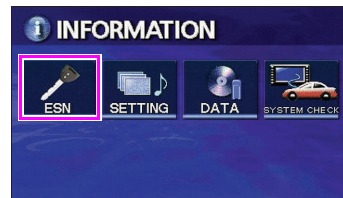
The ESN security indicator can be switched to either ON or OFF. When ON, this indicator flashes while ESN security is activated.

1 Press **INFO** .



2 Touch **ESN** .

- When performing security settings, audio is turned OFF.



3 Touch **ON** or **OFF** for INDICATOR.

4 Touch **ENTER** .



ATTENTION

The indicator cannot be set to ON when a pin code has not been registered for the unit and "Memory Stick".

If one of these messages appears

If any of the following messages are displayed, check the unit while referring to the Cause and Remedy columns.

Message	Cause	Remedy
Audio is off in the security mode.	Displayed while switching to the ESN mode.	Wait until the switch to the ESN mode is completed.
Insert a MEMORY STICK	Displayed when no Memory Stick is inserted in the slot.	Insert a Memory Stick.
Security was not canceled	Displayed when an attempt to cancel key Memory Stick registration has failed.	Insert the Memory Stick and try canceling registration again.
MEMORY STICK is incorrect. Security was not disabled.	If the Memory Stick is not recognized as the key Memory Stick when attempting to cancel the operation lock status, the Memory Stick is ejected.	Insert the correct Memory Stick and try canceling the operation lock status again.
CALL 800	Displayed when the key Memory Stick recognition error occurs for the fifth time while attempting to cancel the operation lock status.	Contact the Eclipse dealer at (800) 233-2216.
Re-enter rolling code	Displayed when a rolling code recognition error occurs.	Re-enter the rolling code. If the error is still displayed, contact the Eclipse dealer at (800) 233-2216.

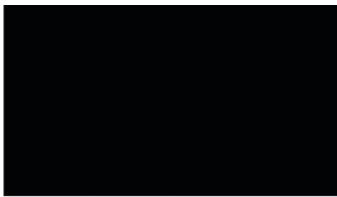
1 When changing the battery

Changing the battery

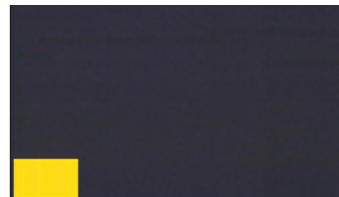
When the vehicle ignition switch is turned to ON (ACC) after the battery has been changed (⊕ terminal of the battery connected), program loading starts. Do not disconnect the battery terminal while program loading is in progress.

Moreover, wait until the map screen is displayed before operating the unit or the ignition switch.

The screen will change in the order shown below.



<About 3 seconds>



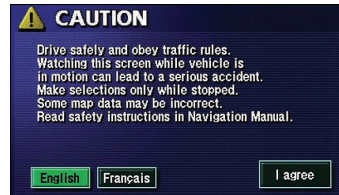
<About 3 seconds>



<About 15 seconds>



<About 15 seconds>

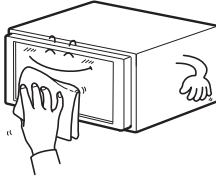


2 About care and maintenance

About care and maintenance - main unit and antenna

About care and maintenance - main unit

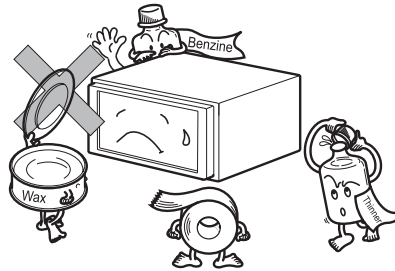
- Use a soft cloth (silicon cloth) to remove dirt from the main unit. If the unit is very dirty, soak a cloth in diluted kitchen detergent, wring dry, then use to wipe the unit clean. Finally, wipe down with a dry cloth.



Take care when cleaning the touch panel as it is easily scratched.

Use any cloths made from artificial fibers in accordance with the relevant cautionary instructions.

- Do not use volatile chemicals such as benzine or thinner.



Otherwise, the unit may be damaged or the coating may peel.

About care and maintenance for the antenna

- Do not apply paint or wax onto the GPS antenna. Otherwise, signal reception sensitivity may be diminished or signal reception may be rendered impossible.
- When removing or adjusting the GPS antenna, be careful not to pull on the cord, as it could result in a short or disconnection.
- The solar control films or heat-reflective glass found in some cars reflect electromagnetic waves, which can severely diminish signal reception sensitivity. Mirror-type films can also adversely affect reception sensitivity.

Introduction

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ESN

■ Using ESN

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GPS antenna

Dimensions	34 (W) × 13.2 (H) × 38 (D) mm (except protruding sections)
Weight	About 86 g
Power supply voltage	4.2 - 5.0 V
Power consumption	10 mA (max)
Usage temperature	-30 to 85 °C
Storage temperature	-40 to 100 °C

Display

Liquid crystal panel	6.5 type wide low reflection panel
Screen dimensions	143.4 mm (W) x 79.3 mm (H)
Pixel count	280,800 pixels (400 (H) x 234 (V) x3)
Active pixel rate	Over 99.99%
Display format	Transmissive color filter format
Drive system	TFT (thin membrane transistor) active matrix format
Usage temperature range	-20 to +65°C
Storage temperature range	-40 to +85°C

Radio tuner

Reception frequency	● AM530 to 1710kHz ● FM87.75 to 107.9MHz
Practical speed	● AM22 μ V (S/N20dB) ● FM13dBf (new IHF)
Frequency characteristic	30 to 15,000Hz (FM)
Stereo separation	38dB (1kHz)

CD

Wow & flutter	Below measurement limit
Higher harmonic distortion rate	0.03% (0dB, 1kHz)
Frequency characteristic	20 to 20,000Hz
S/N ratio	88dB (1kHz)
Dynamic range	85dB

Memory Stick

Total harmonic distortion	0.03% (1kHz, 0dB, 0.5W output)
Frequency characteristic	20 to 20,000Hz
S/N ratio	80dB (1kHz)

DVD

Total harmonic distortion	0.3% (1kHz, 0dB, 0.5W output)
Frequency characteristic	20 to 20,000Hz
S/N ratio	85dB (1kHz)

Common component

Rated output	15W x 4 (1kHz, 1%4Ω) (EIAJ)
Maximum output	50W x 4 (test voltage 14.4V)
Suitable load impedance	4Ω (each channel)
Power source voltage	DC13.2V (11-16V) Grounded
Power consumption	● 0.5W x4 output time about 3.5A ● About 15A max
Exterior dimensions	180mm (W), 100mm (H), 165mm (D)
Weight	About 3.6kg

HDD

Usage temperature range	-20 to +65°C
-------------------------	--------------

Rear view camera (optional)

Image pickup device	1/4 inch color CCD	
CCD pixel count	About 270,000 pixels	
Horizontal resolution	300TV (center) or above	
Camera	Focal distance	$f = 1.7\text{mm}$
	F value	1:3.5
	Angular field of view (Horizontal/Vertical)	120°, 84°
TV format	NTSC	
Standard image output level	1Vp-p (75Ω)	
Minimum object illumination	2 lux (25IRE)	
White balance format	Automatic	
Automatic sensitivity adjustment range	1:1600 or above	
Power source voltage	DC6V ± 0.3V	
Power consumption	170mA (max)	
Cable length	11.5m	
Usage temperature range	-20 to +65°C	
Storage temperature range	-30 to +80°C	
Camera unit exterior dimensions (W × H × D)	About 34mm (W) x 27mm (H) x 24mm (D)	
Weight	About 40g (cable not included)	

Please note that due to changes in specifications and external appearance, the content of this manual may not correspond exactly with the actual device.



This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

CUSTOMER NOTICE

Please retain this booklet and write in the serial number of your AVN5495 for identification. The serial number is labeled or stamped on the chassis.

Serial No. _____

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090002-27780700 0503C(N)