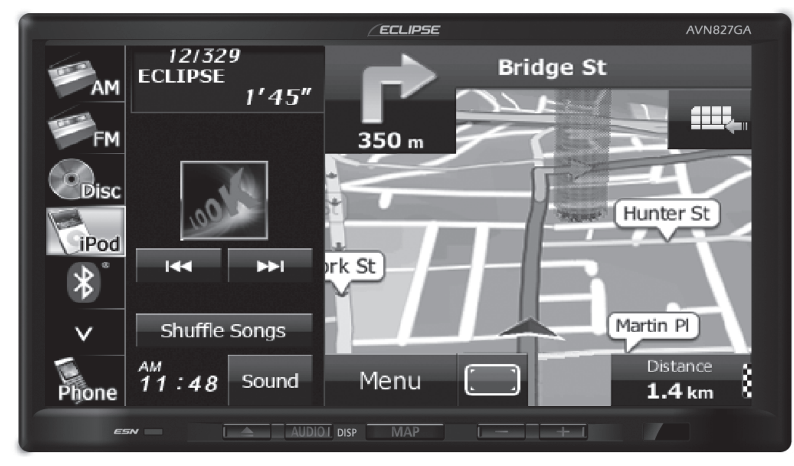
ECLIPSE

OWNER'S MANUAL



AVN827GA

DVD-Video / USB Multi-Source Receiver / 7" Wide Screen Monitor / Navigation / RDS-TMC / Built-in Bluetooth® wireless technology

DIVX™ Bluetooth® TMC DOLBY DIGITAL

DVD VIDEO™ USB MP3 WMA

AAC

Made for iPod iPhone

suna™ traffic channel

We appreciate your purchase of this main unit.
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.

FUJITSU TEN

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.

Precautions for Use

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

⚠ 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.

⚠ IMPORTANT

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

📖ATTENTION

Useful information for the smooth operation of the main unit.

✎ CHECK

Facts to keep in mind when operating the main unit.

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

⚠ CAUTION

There is the possibility that the touch switches of the display screen may not operate correctly if condensation forms inside them. In such a case, do not attempt to operate them until the condensation has disappeared.

Before Use

5. Bluetooth Handsfree Operation 50

Information

Read First

Navigation

Reference Data

Other

Starting Out

Basic Operations

Audio Operations

Visual Operations

How to Operate Portable Audio Devices

Other Operations

Reference

Safety Precautions

⚠ WARNING

- Do not modify this system for any uses other than that specified herein. Also, do not deviate from the installation procedures described herein. Eclipse will not be held liable for damages including, but not limited to serious injury, death or property damage resulting from installations that enable unintended operation.
- The main unit requires a 12V DC power supply. The main unit should not be installed in any vehicle which does not have a 12 V power system with a ground-connected negative side. An installation other than the one intended may cause severe damage to the main unit, electric shock or personal injury.
- Never install the main unit where it will interfere with safe operation of the vehicle.
- Never block the drivers' view. Do not install the main unit where it may interfere with operation of the brake, the steering or safety systems, such as seat belts and air bags.
- Before drilling holes in a vehicle for installation, be sure to confirm the locations of pipes, tanks, electrical wiring, and other vehicle systems and components to ensure that there will be no interference or contact. In addition, apply rust prevention and leak prevention measures at the drilling area. Otherwise, fire or electric shock could occur.
- When installing the main unit, do not remove or alter existing vehicle fasteners, including nuts, bolts, screws, clips, and fittings. Never detach, move or alter existing vehicle wiring, including electrical grounds and straps. Alteration of existing vehicle components may make vehicle unsafe to operate.
- Before installation, remove the negative (-) battery terminal to prevent shocks, electrical arcing, fires, and damage to vehicle wiring and the main unit you are installing.
- Secure wiring with non-conductive tape or plastic ties so that the wires do not interfere with vehicle operation, including the brake pedal, gear shifter and steering. Position wires so that they will not be rubbed, abraded, or damaged by moving vehicle components, including power seats.
- To avoid damage to the main unit and vehicle, including fire, never supply power to the installed main unit in a way that will overload the capacity of an existing vehicle circuit. Never leave a power supply wire or connection uninsulated. Always install supplied fuses, circuit breakers, and relays.
- Air bags are a vital part of a safety system. Never install the main unit in a way which will alter air bag wiring or interfere with air bag deployment. Air bags must function properly in the event of an accident.
- When installation is complete, test all vehicle electrical systems to ensure they operate correctly, including lights, horn, brake lights, and emergency flashers.
- For your protection, never use a power drill without wearing safety glasses or goggles.

  Debris or broken drill bits may cause severe eye injuries, including blindness.
- Use electrical tape to insulate the ends of all wires, even if they are not used. Proper insulation prevents arcs, shocks and fires.
- Some devices require the use of batteries. Never install the main unit where young children can get access to batteries. If a battery is swallowed, seek immediate medical attention.
- When the vehicle is in motion, never take your eyes off the road to make adjustments to the main unit. To prevent accidents, keep your eyes on the road. Do not lose concentration on your driving when operating or making adjustments to the main unit.
- The driver should not look at the screen while driving. Doing so may result in an accident.

Safety Precautions

- Do not place foreign objects in the disc insertion slot or iPod/USB input terminal. Fire or shocks may result.
- Do not disassemble or alter this main unit. Doing so may result in an accident, fire or shock.
- Do not let water or foreign objects enter the internal parts of this main unit. Doing so may result in smoke, fire or shock.
- Do not use when the main unit is malfunctioning (the screen is not lit or no sound comes out). Doing so may result in an accident, fire or shock.
- Always replace fuses with fuses of identical capacity and characteristics. Never use a fuse with a higher capacity than the original fuse. Using the wrong type of fuse may cause a fire or severe damage.
- If foreign objects or water enters the main unit, smoke or a strange odour may be emitted. If this occurs, stop using the main unit immediately and contact your dealer. Accidents, fire, or shocks may result if you continue to use the main unit under these conditions.
- The driver should not change the disc or iPod/USB memory while driving. Doing so may result in an accident. You must first stop or park your car in a safe location and then proceed to remove or insert the disc and/or iPod/USB.
- Plastic bags and wrappings may cause suffocation and death. Keep these objects away from babies and children. Never place bags or wrappings over anyone's head or mouth.
- Be sure to park the vehicle in a safe location and set the parking brake before watching DVDs or videos. For safety reasons, only the sound of DVDs or videos will be emitted while the vehicle is in motion.

⚠ CAUTION

- Wiring and installing this main unit requires expertise and experience. Professional installation is recommended. Consult with your dealer or a professional installation expert. Incorrect wiring may damage the main unit or interfere with safe operation of the vehicle.
- Use only specified accessory parts. Using other parts may cause damage to the main unit or cause parts to dislodge and fall or fly off the main unit.
- Do not install the main unit in places where it may be exposed to dew condensation (around the air conditioning hose, etc.), or in locations where it may come in contact with water, high levels of moisture, dust or oily smoke. If water, moisture, dust or oily smoke enters this main unit, smoke, fires or malfunctions may result.
- Do not install in places subject to direct sunlight or where it may be hit directly by hot air from the heater. This may increase the interior temperature of the main unit, resulting in fires and malfunctions.
- Do not impede the air flow of the heat sink or vents of this main unit. Impeding the air flow will cause the interior of the main unit to overheat, and fire may result.
- Connect as specified in the installation manual. If not connected correctly, fires or accidents may result.
- Install wiring in a manner in which cables will not be pinched by movable parts such as seat rails and screw parts of the vehicle body. Accidents, fires and, shocks may result from disconnection and electrical shorts.
- Install wiring in a manner in which cables will not come in contact with metal parts. The wiring may be damaged by contact with metal parts, resulting in fire and, shocks.
- Avoid all contact with hot surfaces when wiring the main unit. High temperatures may damage wiring, causing shorts, arcing and fires.
- When changing the installation location for this main unit, please consult the dealer where you bought it for safety reasons. Expertise is necessary for removal and installation.
- Keep volume to a reasonable level so that you can hear sounds from outside the vehicle, including warning sounds, voices, and sirens. Failure to do so may cause an accident.
- Be careful that your hands and fingers do not get pinched when adjusting the tilting angle or closing the display. Injuries may result.
- Do not put your hands or fingers into the disc insertion slot or iPod/USB input terminal.

  Injuries may result.
- Do not touch hot parts of the main unit. Fire may result.
- The volume should be set at a moderate level to avoid hearing damage when the main unit is powered on.
- Do not operate when sound such as distortion is being emitted.
- The main unit uses invisible laser light. Do not disassemble or alter this main unit. If any problems occur, contact the dealer where you purchased the main unit. Altering this main unit may cause exposure to laser emissions (which may damage your eyesight), or result in an accident, fire or shocks.
- If the main unit is dropped or the front panel is damaged, turn off the power to the main unit and contact your dealer. If used in this condition, fires or shocks may result.

Safety Precautions

⚠ IMPORTANT

- When there is a lot of vibration – when driving on a rough road for example – the main unit may become inoperable due to it not being able to read data from the disc.
- In cold temperatures, condensation may accumulate on the lens for reading CDs and DVDs immediately after turning ON the heater. Wait approximately 1 hour for the condensation to evaporate and the device will operate normally.

  Contact the store where you purchased the device if normal operation does not resume after several hours.
- If using this receiver immediately after having purchased it or after having stored it disconnected from the vehicle battery, the present location may not be displayed accurately. Wait for a short while and the GPS positioning will correct the displayed position.
- This device is precision-engineered equipment and the information that you record on it after purchase can be lost as a result of static electricity, electrical noise, vibration and, other influences. It is recommended that you keep a separate record of the information you store in the main unit.
- Note that the following events are not covered by the warranty.

  ① Corruption or loss of the data stored in the main unit by the purchaser resulting from failure or incorrect operation of the main unit, or any problems associated with it, or due to the effects of electrical noise or other influences.

  ② Corruption or loss of the data stored in the main unit by the purchaser resulting from misuse of the main unit by the purchaser or a third party.

  ③ Corruption or loss of data stored in the main unit by the purchaser resulting from failure/repair of the main unit.

  * Please note that by installing or using the main unit, you are regarded as having consented to the points above.

Viewing This Document

Section title

A title is assigned for each section.

Item title

A number and title is assigned for each item.

Operation title

A title is assigned for each operation .

Detailed operation title

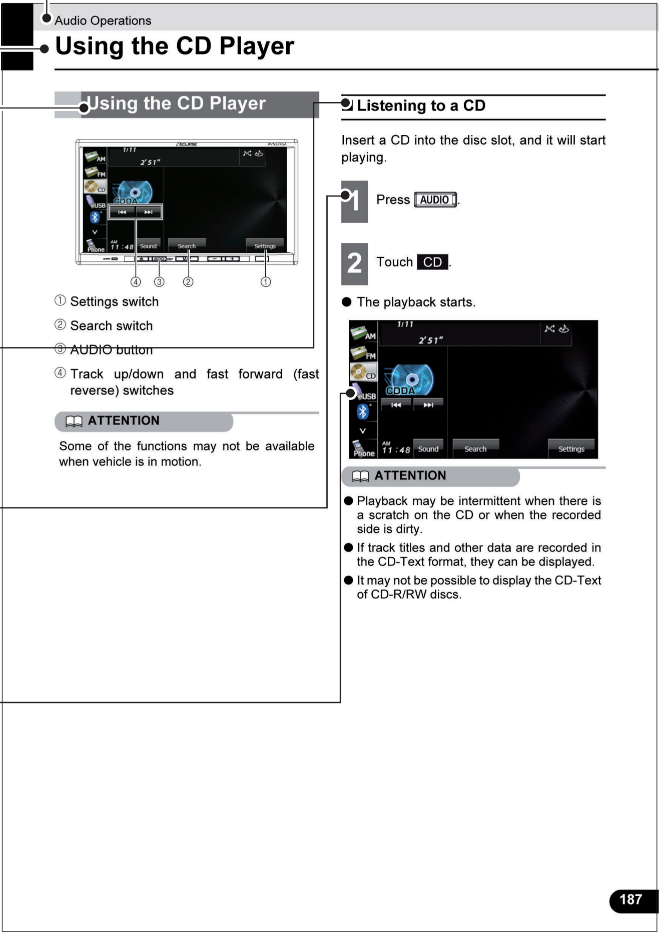
A title is assigned for each detailed operation.

Operation procedure

Describes the operation.
Proceeds with the operation in numerical order.

Operation screen

A screen showing the operation will appear.



Audio Operations

Using the CD Player

Using the CD Player

① Settings switch
② Search switch
③ AUDIO button
④ Track up/down and fast forward (fast reverse) switches

ATTENTION

Some of the functions may not be available when vehicle is in motion.

Listening to a CD

Insert a CD into the disc slot, and it will start playing.

1 Press AUDIO.

2 Touch CD.

- The playback starts.

ATTENTION

- Playback may be intermittent when there is a scratch on the CD or when the recorded side is dirty.
- If track titles and other data are recorded in the CD-Text format, they can be displayed.
- It may not be possible to display the CD-Text of CD-R/RW discs.

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CHECK

In this document, the unit is generally described using the screens which appear when the optional devices are connected. Navigation is mostly described using the Heading - upwards 1 screen.

About switch display

When a panel button should be pressed, button names are shown as MAP (AUDIO, ⏏, etc.).

When a touch switch on the screen should be touched, switch names are shown as ○○○ or [○○○].

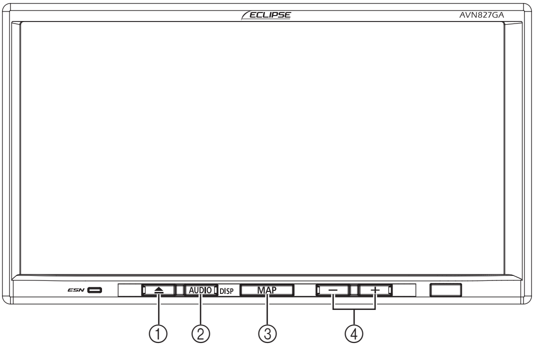
About This Receiver

Control Names and Operations

You can operate this receiver by pressing the buttons (panel buttons) or by touching the switches displayed on the screen (touch switches).

■ Panel buttons

Press each panel button to operate it.



①	TILT/EJECT button	Press to display the TILT·EJECT screen.
②	AUDIO button	Press to use the audio or info. Press for 1 second or more to adjust the picture quality or screen brightness.
③	MAP button	Press to display the navigation screen.
④	VOL button	Press to adjust volume of audio.

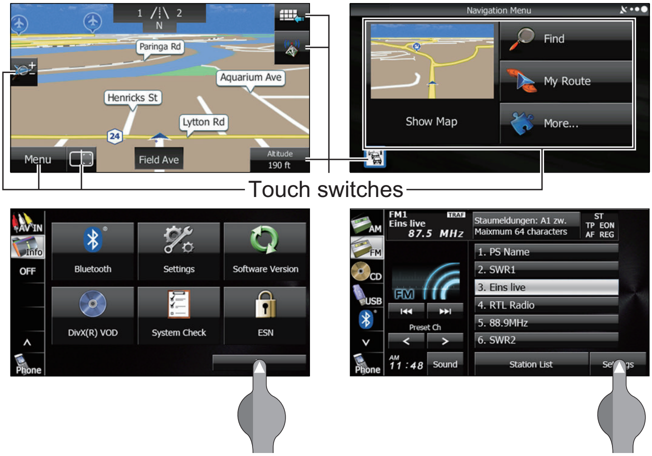
■ Touch switches

Touch a switch on the screen to operate it.

⚠ IMPORTANT

Touch the touch switches with your finger.

Operating touch switches with the point of hard objects such as ballpoint pens or mechanical pencils may damage the screen.



About touch switch operations

- ● Keep touching the touch switch until a “beep” is emitted in response. (When the guide tone is set to ON.)
- ● To protect the screen, touch the touch switch lightly with your finger.
- ● When there is no response from the switch, remove your finger from the screen and touch it again.
- ● Touch switches that cannot be operated have their colours toned down.
- ● When the switch function is enabled, the touch switch returns to a brighter colour.

About This Receiver

Turning the Power On or Off

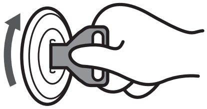
This unit switches on automatically at ignition, and when started for the first time, it displays the Navigation setting screen*. When the engine is switched off, the unit also switches off.

* The second and subsequent times that the unit is started, the mode screen that was last in use is displayed. If the last mode in use was the Navigation screen, then your current position will be displayed. If the last mode in use was the Audio screen, then your last audio selection will be displayed.

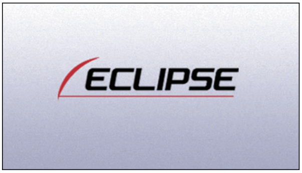
■ Turning on the power

1 The Caution screen is displayed automatically. When you touch **I Agree**, the Navigation setting screen appears.

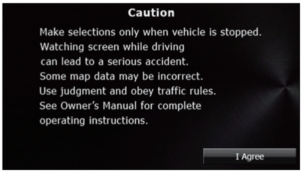
● **I Agree** turns down the tone during system startup. After system startup, wait until the tone is turned up, and then touch **I Agree**.



<Opening screen>



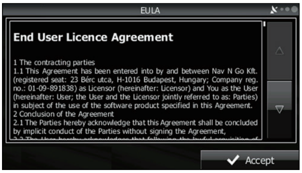
<Caution screen>



Caution

Make selections only when vehicle is stopped.
Watching screen while driving
can lead to a serious accident.
Some map data may be incorrect.
Use judgment and obey traffic rules.
See Owner's Manual for complete
operating instructions.

<Navigation setting screen>



End User Licence Agreement

1 The contracting parties
1.1 This Agreement has been entered into by and between Nav N Go Kft. (registered seat: 23 Bérc utca, H-1016 Budapest, Hungary; Company reg. no.: 01-09-891838) as Licensor (hereinafter: Licensor) and You as the User (hereinafter: User; the User and the Licensor jointly referred to as: Parties) in subject of the use of the software product specified in this Agreement.
2 Conclusion of the Agreement
2.1 The Parties hereby acknowledge that this Agreement shall be concluded by implicit conduct of the Parties without signing the Agreement,

ATTENTION

Do not press the voice recognition button (External microphone/Steering Wheel Switch) without touching **I Agree** on the Caution screen. Otherwise, Navigation commands cannot be used.

■ Turning off the audio

- Touch **OFF** on the Audio operations screen.

  (If you are on the Navigation screen, switch to the Audio operations screen to do this.)

ATTENTION

- To turn off the audio power when the Navigation screen is displayed, first switch to the Source screen.
- When the audio power is turned off, touch the source you wish to change to on the Source screen. For details, see “Switching the Audio Source” on page 170.
- You cannot turn off the navigation power.

Loading/Unloading a Disc

When you listen to music, insert a CD into the disc slot. Also, when you play a movie, insert a DVD into the slot.

■ Loading a disc

⚠ IMPORTANT

This receiver can play 8 cm CDs and 8 cm DVDs. To avoid disc problems, insert a disc without using an adapter.

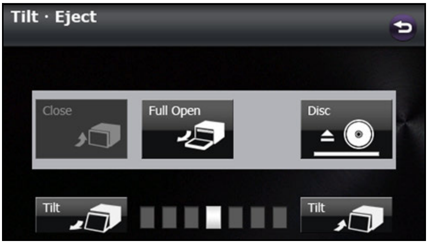
⚠ CAUTION

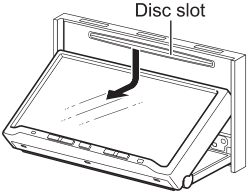
- You may not be able to open or close the display when the gearshift lever is set to P in an automatic transmission car or 1/3/5 or Ⓡ in a manual transmission car; or when a bottle or a similar object is placed in the cup holder. To open or close the display safely, set the gearshift lever to N (automatic transmission car) or to the Neutral position (manual transmission car) in advance, or empty the cup holder. Make sure that the car is not in motion by applying the parking brake and appropriately stepping on the foot brake in order to prevent damage or injury.
- Do not place a cup or can on the display while the display is opened. Doing so may damage the display.
- When a disc is loaded, do not press **Close** or ⏏.

1 Press ⏏.

2 Touch **Disc**.

- The display will open to reveal the insertion slot.

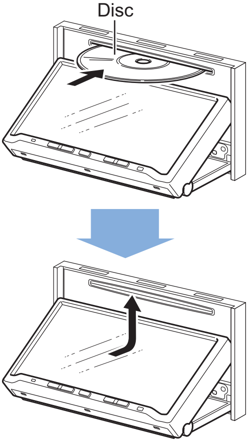




About This Receiver

3 Insert a disc into the slot.

- The display will close automatically when the disc is inserted.
- Hold a DVD or CD correctly (by inserting your finger in its centre hole and by holding the disc edge by another finger), face the disc label side upward, and insert the disc into the slot.
- When you insert a DVD into the slot, the movie will be played in the DVD mode.
- When you insert a CD into the slot, the music will be played or the MP3/WMA play will start.



ATTENTION

- Press ⏏ for a second or more to open the display.
- For disc details, see “About Discs” on page 166.

■ Unloading a disc

IMPORTANT

- When unloading a disc, use the following notes.

  Automatic transmission (AT) car:

  If it is difficult to unload a disc when the shift lever is in the P position, shift it to the N position. (If your car has a column shift lever, shift it to the P or N position.)

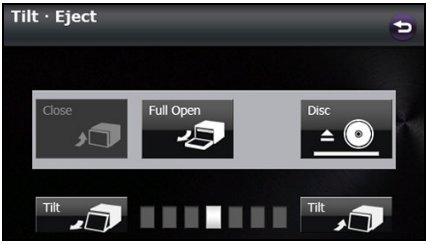
  Manual transmission (MT) car:

  If it is difficult to unload a disc when the shift lever is in “1”, “3”, “5” or “Ⓡ” position, shift it to the Neutral position.
- Take care NOT to close the display when the ejected disc remains in the slot. If this caution is not observed, this receiver or the disc may be scratched.
- Do not attempt to close the front panel by hand. Doing so may damage the display.
- Do not put cups, cans, or any other objects on the display when it is open. Doing so may damage the display.
- Wipe and clean the display immediately if juice or other liquid spills onto it. If it is not cleaned, the display may be damaged.
- To protect the display from heat and dust, keep the display closed except when you load or unload a disc.

1 Press ⏏.

2 Touch Disc.

- The disc will be ejected automatically.



3 After the disc is ejected, touch Close or press ⏏ to close the display.

Adjusting the Display Angle

When the screen shines due to ambient sunlight, you can adjust the angle of the display.

CAUTION

When adjusting its angle, take care not to pinch your fingers. Otherwise you may hurt yourself or the display may fail.

IMPORTANT

- Do not load a disc when the display is tilted. If this caution is not observed, this receiver or the disc may be scratched.
- When adjusting the display angle, use the following notes.

  Automatic transmission (AT) car:

  Adjust the display angle so as not to get in the way when shifting the AT lever to any of the P, Ⓡ, or N positions. (If the lever shift is interfered with, do not tilt the display.)

  Manual transmission (MT) car:

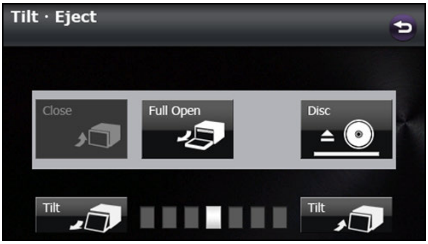
  Adjust the display angle so as not to get in the way when shifting the MT lever to any of the 1/3/5 or Ⓡ positions. (If the lever shift is interfered with, do not tilt the the display.)

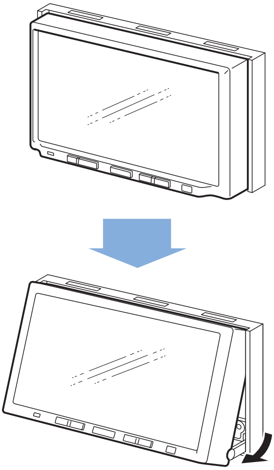
About This Receiver

1 Press ⏏.

2 Touch or of the angle adjustment.

- :
  Each touch returns the display from the tilted state by 1 step (5 °). (Maximum 6 steps, 30 °)
- :
  Each touch tilts the display by 1 step (5 °). (Maximum 6 steps, 30 °)





3 After adjusting the angle, press ⏏.

ATTENTION

- You can open the display even when it is tilted. When you close the display, it returns to the preset angle.
- If you tilt the display and turn the ignition key OFF, the display will return to the upright position. However, when you turn the ignition key to the ACC or ON position, the display returns to the preset angle.

Loading and Unloading an SD Memory Card

Insert an SD memory card into the slot.

■ Loading an SD memory card

⚠ CAUTION

- You may not be able to open or close the display when the gearshift lever is set to P in an automatic transmission car or 1/3/5 or Ⓡ in a manual transmission car; or when a bottle or a similar object is placed in the cup holder. To open or close the display safely, set the gearshift lever to N (automatic transmission car) or to the Neutral position (manual transmission car) in advance, or empty the cup holder. Make sure that the car is not in motion by applying the parking brake and appropriately stepping on the foot brake in order to prevent damage or injury.
- Do not place a cup or can on the display while the display is opened. Doing so may damage the display.
- When an SD memory card is loaded, do not press **Close** or [⏏].

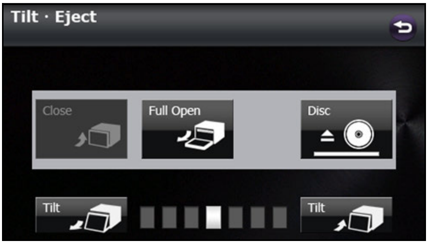
⚠ IMPORTANT

- Position an SD memory card with the ▲ mark at the far end and insert it until it makes a “click” sound. When it makes contact with the stopper inside, the card cannot be inserted any further. Do not try to forcibly push the card.
- Before inserting a miniSD card, microSD card, miniSDHC card or microSDHC card, be sure to attach the card to the special adapter. (If you insert only the miniSD card, microSD card, miniSDHC card or microSDHC card, you may not be able to remove it.)

1 Press [⏏].

2 Touch **Full Open**.

- The display will open to reveal the insertion slot.



3 Insert the SD memory card.

- Insert the SD memory card with the label on the left side.
- Make sure that the SD memory card is fully inserted.

4 After an SD memory card is inserted, touch **Close** or press [⏏] to close the display.

📖 ATTENTION

- Insert the map SD card without locking it.
- If you insert an SD memory card that contains image data, you can preview the images, play a slideshow, or set an image as the Opening screen. (See page 260)

About This Receiver

About SD memory cards

- This unit supports SD memory cards with capacities from 512 MB to 8 GB.
- SD memory cards that are marked as follows can be used.

	SD Logo is a trademark of SD-3C, LLC.
	SDHC Logo is a trademark of SD-3C, LLC.
	miniSD Logo is a trademark of SD-3C, LLC.
	miniSDHC Logo is a trademark of SD-3C, LLC.
	microSD Logo is a trademark of SD-3C, LLC.
	microSDHC Logo is a trademark of SD-3C, LLC.

- Multi Media Cards (MMC) cannot be used.

■ Unloading an SD memory card

⚠ IMPORTANT

- When unloading an SD memory card, use the following notes.

  Automatic transmission (AT) car:

  If it is difficult to unload an SD memory card when the shift lever is in the P position, shift it to the N position. (If your car has a column shift lever, shift it to the P or N position.)

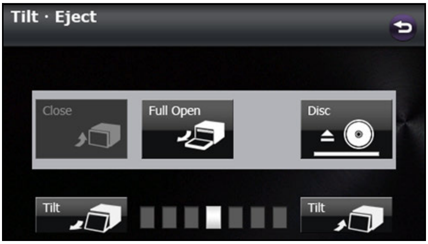
  Manual transmission (MT) car:

  If it is difficult to unload an SD memory card when the shift lever is in “1”, “3”, “5” or “Ⓡ” position, shift it to the Neutral position.
- Take care NOT to close the display when the ejected SD memory card remains in the slot. If this caution is not observed, this receiver or the disc may be scratched.
- Do not attempt to close the front panel by hand. Doing so may damage the display.
- Do not put cups, cans, or any other objects on the display when it is open. Doing so may damage the display.
- Wipe and clean the display immediately if juice or other liquid spills onto it. If it is not cleaned, the display may be damaged.
- To protect the display from heat and dust, keep the display closed except when you load or unload an SD memory card.

1 Press [⏏].

2 Touch **Full Open**.

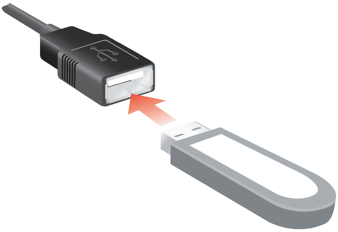
- Press in the SD memory card until you hear it “click”, let go of the card, and then pull it straight out.



3 After an SD memory card is ejected, touch **Close** or press [⏏] to close the display.

Connecting (or Disconnecting) the USB Memory

1 Connect (or disconnect) the USB memory.



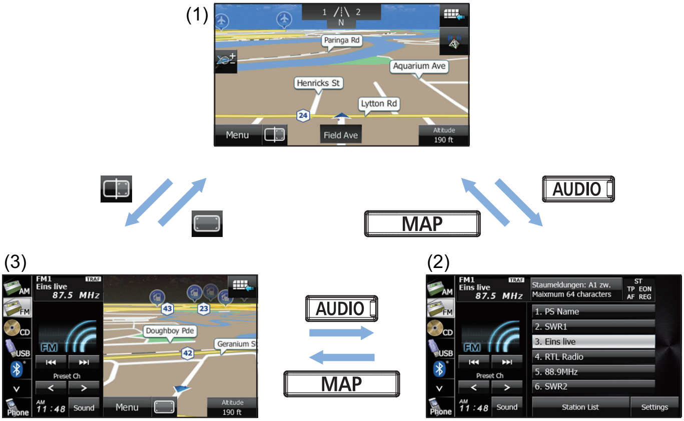
ATTENTION

- This unit supports USB memory in the following formats.
  - Supported class: Mass storage class
  - Supported USB Ver.: USB1.0/1.1/2.0 (maximum transfer speed is the same as USB 2.0)
  - Maximum consumption current: Less than 1.0 A
  - Supported capacities: 16 MB to 8 GB
- Do not connect USB memory devices other than those conforming to the specifications above. There is a possibility that some USB memory devices that do conform to specifications will not function correctly, due to many variables. We suggest testing your USB device prior to departing to your destination.
- This unit does not support commercially available USB hubs, multi card readers, external hard disks or portable audio players with USB connectors.
- If the USB memory connection cord of this unit is connected to a USB device via an extension cord, it may not function correctly.
- If you lose the data in the USB memory while using it with this unit, no compensation will be given for the lost data. It is always a good practice to back up data, and only access a copy for in-vehicle use.
- Leaving the USB memory for a long time in a place exposed to direct sunlight may result in deformation or discolouration due to the high temperature, or cause a malfunction. In such cases, ECLIPSE will not give any compensation. When you are not using the USB memory, keep it in a place away from direct sunlight. Further, when leaving the vehicle, do not keep the USB memory inside.
- When the audio source is USB, do not disconnect the USB memory. Doing so may damage the data in the USB memory. Before disconnecting the USB memory, turn the ignition switch to the Off position or switch the audio source to a source other than USB, and then disconnect it.

About This Receiver

About the Unit Modes

The modes of this unit can be broadly divided into 3 categories: Navigation, Audio and, Multi.



	Mode	Main functions
(1)	Navigation	● Navigation screen display and operations (current position display, destination setting, destination guidance, destination registration, etc.) ● Navigation menu display
(2)	Audio	● Receiving AM/FM radio ● CD, MP3/WMA player operations ● DVD player operations ● USB music/video file player operations ● VTR/AUX display ● iPod operations ● Bluetooth audio operations ● Video screen mode selection ● Audio menu display ● Audio source selection ● Handsfree operation screen display ● Info menu display
(3)	Multi	● Navigation screen and Audio operations screen selection ● Audio source selection ● Audio source operations ● Navigation screen display and operations (current position display, destination setting, destination guidance, destination registration, etc.) ● Navigation menu display

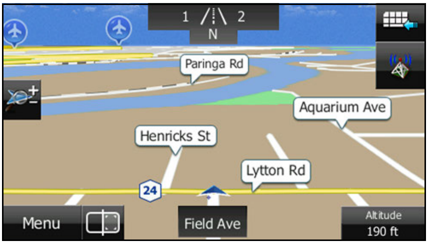
* Some functions cannot be operated while driving.

Selecting a Mode

Press the following switches to select the screens.

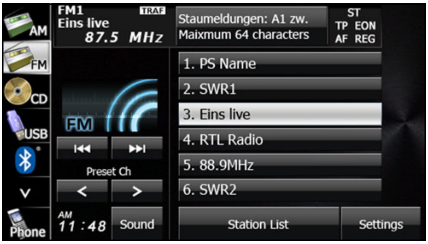
■ Navigation screen

1 Press MAP.



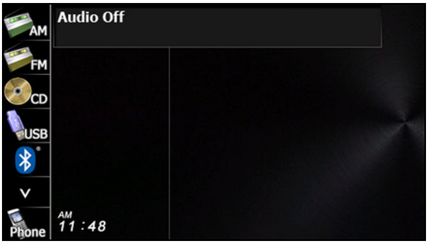
■ Audio operations screen

1 Press AUDIO.



- When the Radio is operating

- Displayed while the audio function is operating. For the audio operations, see “Switching the Audio Source” on page 170.



- OFF screen

- Displayed when the audio function is off.

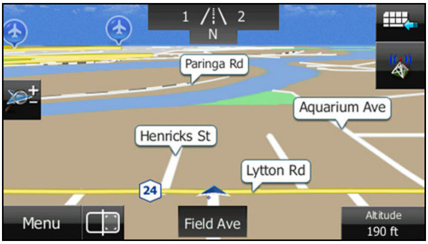
About This Receiver

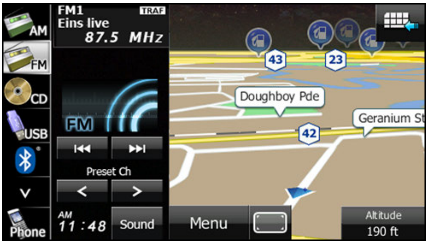
■ Multi screen

You can position the Navigation screen and Audio operations screen on the left and right to display them at the same time.

1 On the Navigation screen, touch ◫.

- The Multi screen appears.





- Multi screen

ATTENTION

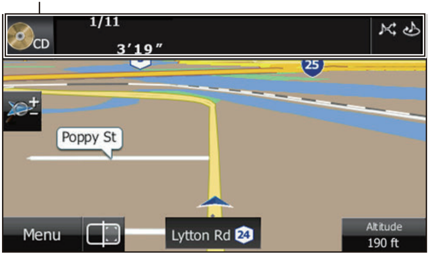
On the Multi screen, touch ▭ to return to the Navigation screen.

■ About the on-screen display

If a disc is loaded while the Navigation screen is displayed, an on-screen display appears.

After a short time, the on-screen display disappears automatically.

On-screen display



ATTENTION

When a USB memory device or an iPod is disconnected during playback, an audio off on-screen display appears.

Operation Conditions for the Unit

The operability of the unit's functions varies according to the following conditions (ignition switch position).

○: Operable

×: Inoperable

Function	**Ignition switch position**			
	OFF	**ACC**	**ON, vehicle stationary**[*1]	**ON, vehicle in motion**
Navigation settings and information	×	○	○	When the vehicle is in motion, some functions become inoperable for safety reasons.[*2]
Audio function	×	○	○	When the vehicle is in motion, some functions become inoperable for safety reasons.
Video function	×	○	○	When the vehicle is in motion, some functions become inoperable for safety reasons.[*3]
Handsfree	×	○	○	When the vehicle is in motion, some functions become inoperable for safety reasons.

*1 When the parking brake is applied.

*2 When the navigation safety function is on.

*3 Video is not displayed.

ATTENTION

Switches that cannot be operated have their colours toned down. Operating a switch that is disabled while driving may result in the display of an operation prohibited message on the screen.

Unit Settings

In addition to settings for navigation and audio operations, the following settings can be performed for the unit.

- Bluetooth setting (See page 33)
- Skin pattern setting (See page 33)
- Opening screen setting (See page 34)
- Clock setting (See page 34)
- Day/night view changeover setting (See page 36)
- Voice recognition setting (See page 38)
- Guide tone setting (See page 39)
- Button Illumination Setting (See page 39)
- Voice Guidance Setting (See page 40)
- Camera Screen SW setting (See page 267)
- ESN (Eclipse Security Network) Setting (See page 41)
- Steering Remote Setting (See page 269)
- Radio Antenna Setting (See page 45)

Various Unit Settings

■ Displaying the Info screen

Display the Info screen to perform various settings.

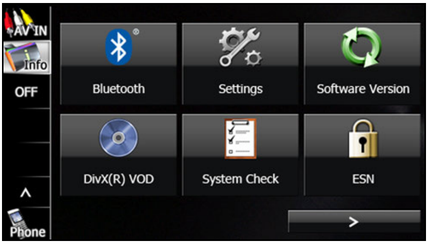
1 Press AUDIO.

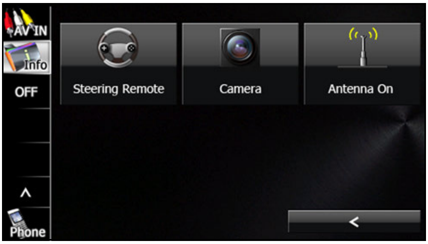
2 Touch Info.

- If Info is not displayed, touch ∨.

3 Touch the switch that you want to set.

- Touch < or > to change the Info screen.





ATTENTION

- DivX(R) VOD:
  Display DivX VOD code. (See page 215)
- System Check:
  Check the sensitivity of the GPS signal reception, or the connection of the parking and reverse signals. (See page 158)
- Software Version:
  View information such as the map data that is stored on the unit or version information for the audio application. (See page 47)
- Steering Remote:
  Touch Steering Remote to perform the various steering wheel switches settings. (See page 269)
- Camera:
  Touch Camera to perform the Back eye camera settings. (See page 264)

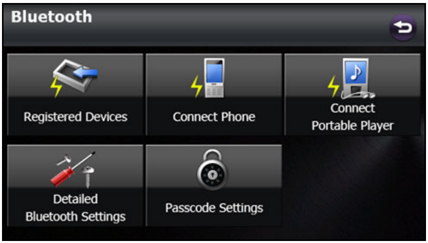
■ Bluetooth setting

Touch **Bluetooth** to perform the various Bluetooth settings.

1 On the Info screen, touch **Bluetooth**.

2 Touch the switch that you want to set.

- Touch **↩** to return to the previous screen.



- **Registered Devices**:

  Register or delete a Bluetooth device, or display information for connected devices. (See pages 53, 251)

  Connect Phone:

  Register a mobile phone or perform the connection settings. (See page 55)

  Connect Portable Player:

  Register a Bluetooth audio device or perform the connection settings. (See page 253)

  Detailed Bluetooth Settings:

  Display or set the detailed Bluetooth information for this unit. (See page 72)

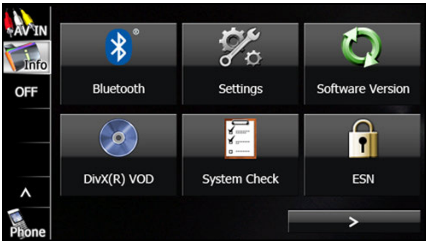
  Passcode Settings:

  Set the passcode (passkey). (See page 73)

■ Skin pattern setting

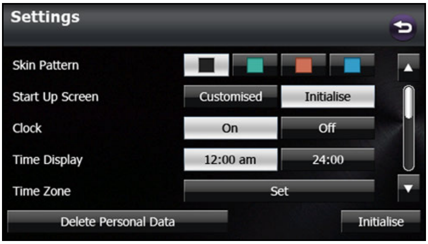
You can set the colour pattern (Black/Green/Amber/Blue) for the screen.

1 On the Info screen, touch **Settings**.



2 Touch the colour that you want to use as the skin pattern.

- The setting changes to the colour pattern that you touched.



ATTENTION

- Touch **Delete Personal Data** to initialise your personal data and all settings. (See page 48)
- Touch **Initialise** to return the settings in the Settings screen to their initial values.

Unit Settings

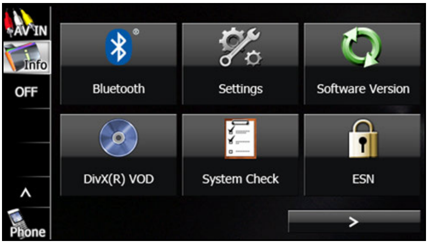
■ Opening screen setting

You can change the Opening screen to display the image of your choice. You can also display image data imported from an SD memory card on the Opening screen.

Changing the Opening screen

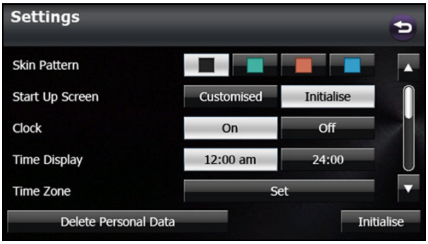
You can change the Opening screen of the unit (the screen that is displayed when the power is turned on).

1 On the Info screen, touch Settings.



2 Touch Customised or Initialise on the Start Up Screen.

- Touch Customised to change to the Opening screen that was set with the picture function. (See page 260)
- Touch Initialise to return the settings in the Start Up screen to their initial values.



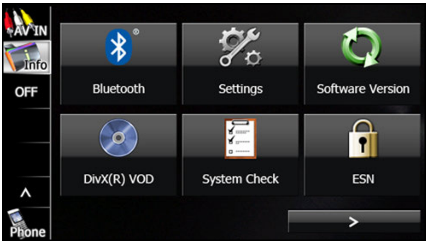
ATTENTION

- Touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the Settings screen to their initial values.

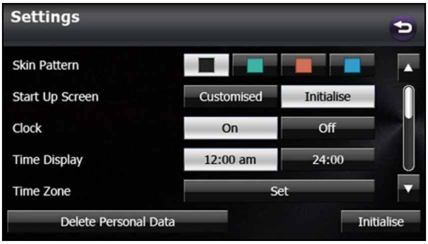
■ Clock setting

You can turn the clock display on or off, change the time display, and set the time zone.

1 On the Info screen, touch Settings.



2 Touch On or Off in Clock.

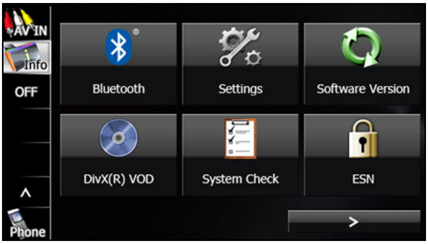


ATTENTION

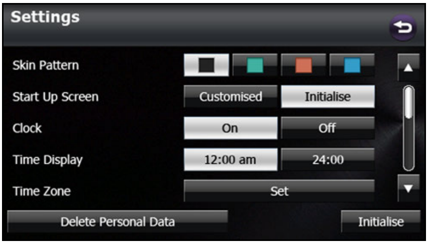
- Touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the Settings screen to their initial values.

■ Time display setting

1 On the Info screen, touch Settings.



2 Touch 12:00 am or 24:00 in Time Display.

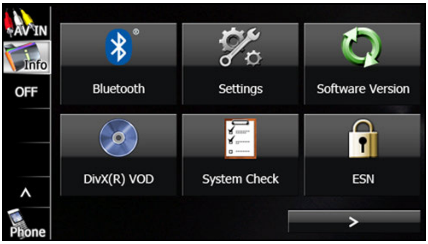


ATTENTION

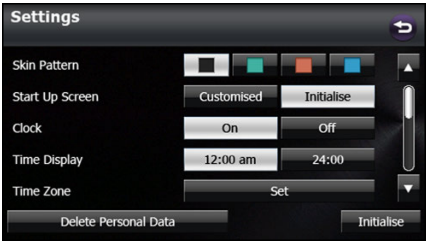
- Touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the Settings screen to their initial values.

■ Time zone setting

1 On the Info screen, touch Settings.



2 Touch Set in Time Zone.

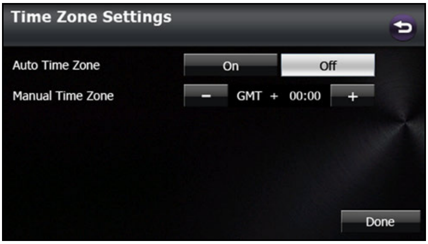


Unit Settings

3 Touch On or Off in Auto Time Zone.

- Touch On in Auto Time Zone to set the time zone automatically.
- When Auto Time Zone is “Off”, touch - or + in Manual Time Zone to adjust the time zone manually.
- Touch + for 1 second or more to advance the time continuously.

  Touch - for 1 second or more to reverse the time continuously.
- After configuring the setting, touch Done to save the setting and return to the previous screen.


Time Zone Settings

Auto Time Zone On Off

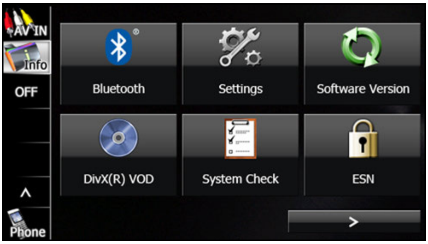
Manual Time Zone − GMT + 00:00 +

ATTENTION

- On the Settings screen, touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- On the Settings screen, touch Initialise to return the settings in the Settings screen to their initial values.

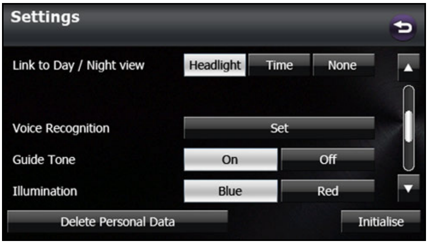
■ Day/night view changeover setting

1 On the Info screen, touch Settings.



2 Touch Headlight, Time or None in Link to Day/Night View.

- If Link to Day/Night View is not displayed, touch ▼ to change the page.


Settings

Link to Day / Night view Headlight Time None

Voice Recognition Set

Guide Tone On Off

Illumination Blue Red

- Headlight:

  Change to night view when the lights (sidelights, tail lights, license plate lights) are turned on.

  Time:

  Change to night view or day view at the set times.

  None:

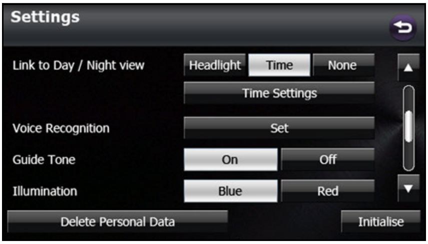
  Change to night view or day view manually.

Day/night view changeover time setting

When Link to Day/Night View is set to “Time”, you can set the time at which to change to the day view.

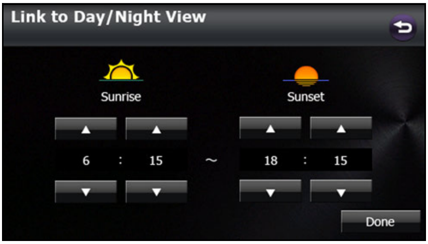
1 On the Settings screen, touch Time in Link to Day/Night View.

2 Touch Time Settings.



3 Touch ▲ or ▼.

- You can set the “Sunrise” and “Sunset” time for the day view.
- After configuring the setting, touch Done to save the setting and return to the previous screen.



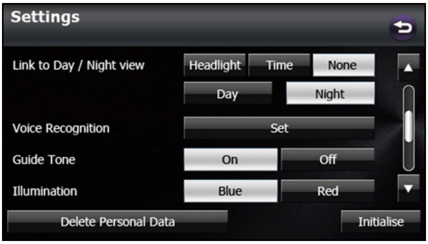
ATTENTION

- On the Settings screen, touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- On the Settings screen, touch Initialise to return the settings in the Settings screen to their initial values.

Changing to the night view or day view

When Link to Day/Night View is set to “None”, you can change to the night view or day view manually.

1 On the Settings screen, touch None in Link to Day/Night View.



2 Touch Day or Night.

ATTENTION

- Touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the Settings screen to their initial values.

Unit Settings

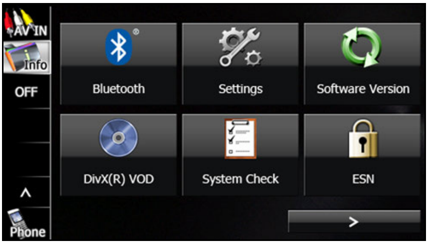
■ Voice recognition setting

You can set the volume of the voice recognition.

⚠ CAUTION

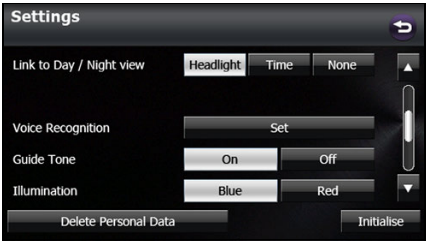
Be sure to set the volume of the audio at an appropriate level. Improper volume setting may result in hearing damage or a traffic accident.

1 On the Info screen, touch Settings.



2 Touch Set in Voice Recognition.

- If Voice Recognition is not displayed, touch ▼ to change the page.


Settings

Link to Day / Night view: Headlight | Time | None

Voice Recognition: Set

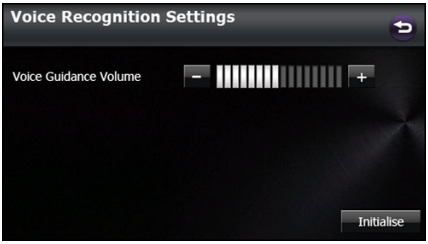
Guide Tone: On | Off

Illumination: Blue | Red

Delete Personal Data | Initialise

3 Touch - or +.

- + (right side):
  Volume up
  - (left side):
  Volume down


Voice Recognition Settings

Voice Guidance Volume − +

Initialise

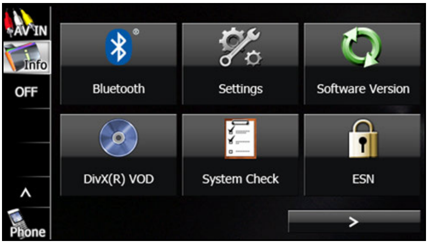
ATTENTION

- On the Settings screen, touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the different screens to their initial values.

■ Guide tone setting

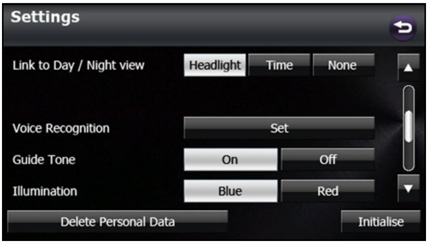
You can set the sound for switch operations to on or off.

1 On the Info screen, touch Settings.



2 Touch On or Off in Guide Tone.

- If Guide Tone is not displayed, touch ▼ to change the page.
- When Guide Tone is set to “Off”, switch operations do not emit a sound.



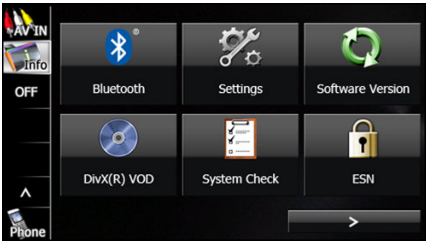
ATTENTION

- Touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the Settings screen to their initial values.

Button Illumination Setting

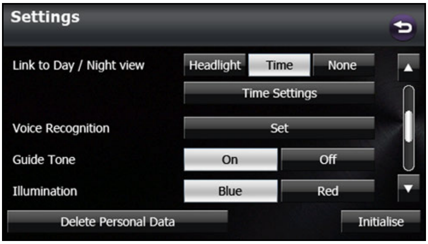
You can set the button illumination.

1 On the Info screen, touch Settings.



2 On the Settings screen, touch Blue or Red in Illumination.

- If Voice Guidance is not displayed, touch ▼ to change the page.



ATTENTION

- Touch Delete Personal Data to initialise your personal data and all settings. (See page 48)
- Touch Initialise to return the settings in the Settings screen to their initial values.

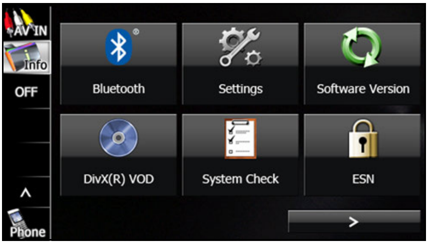
Unit Settings

Voice Guidance Setting

You can turn the automatic volume control in motorway on or off, change the output speaker, and turn the audio sound on or off.

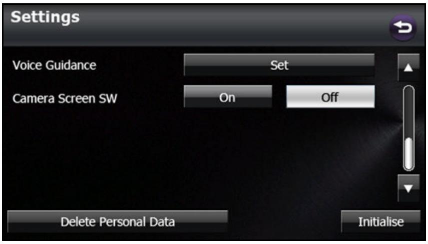
■ Automatic volume control in motorway setting

1 On the Info screen, touch **Settings**.

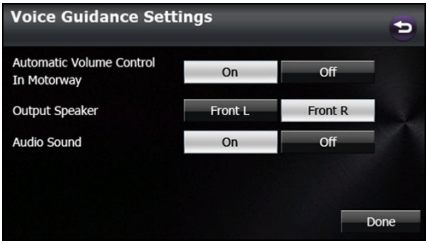


2 Touch **Set** in Voice Guidance.

- If Voice Guidance is not displayed, touch ▼ to change the page.



3 Touch **On** or **Off** in Automatic Volume Control In Motorway.



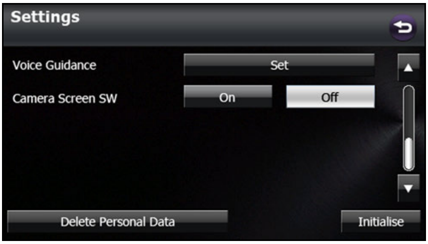
4 Touch **Done**.

■ Output speaker setting

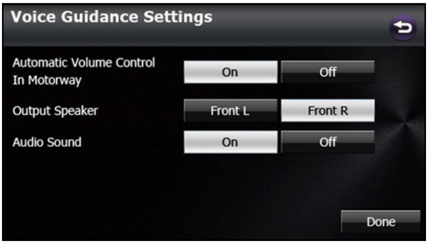
1 On the Info screen, touch **Settings**.

2 Touch **Set** in Voice Guidance.

- If Voice Guidance is not displayed, touch ▼ to change the page.



3 Touch **Front L** or **Front R** in Output Speaker.



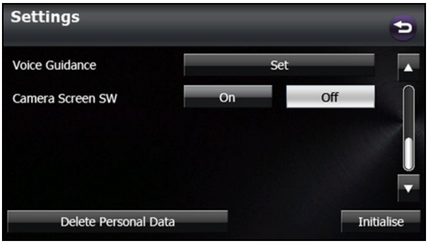
4 Touch **Done**.

■ Audio sound setting

1 On the Info screen, touch **Settings**.

2 Touch **Set** in Voice Guidance.

- If Voice Guidance is not displayed, touch ▼ to change the page.

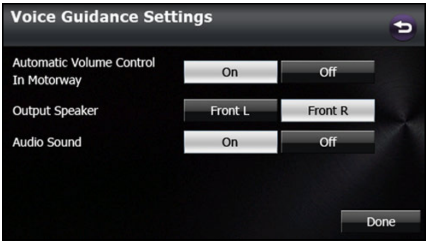


Settings

Voice Guidance: Set

Camera Screen SW: On / Off

3 Touch **On** or **Off** in Audio Sound.



Voice Guidance Settings

Automatic Volume Control In Motorway: On / Off

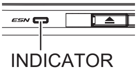
Output Speaker: Front L / Front R

Audio Sound: On / Off

4 Touch **Done**.

ESN (Eclipse Security Network) Setting

This receiver has a built-in ESN (ECLIPSE Security Network) function. ESN is a security system which renders the navigation and audio functions inoperable when the battery terminal is disconnected and reconnected. You can make the security indicator flash when the security system is in operation.



To operate ESN, register a music CD as the key CD for this receiver.

CHECK

- The flashing of the security indicator works to discourage theft.
- A DVD or MP3/WMA disc cannot be registered as the key CD.
- When setting the security on this receiver, register a music CD. Be sure to store the registered music CD somewhere safe.
- When setting the security, the audio is turned Off.

Unit Settings

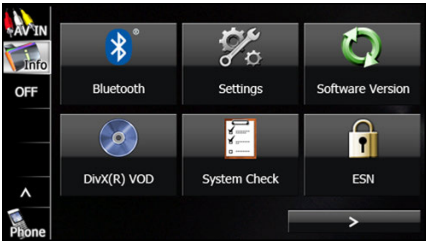
■ ESN setting screen display

1 Press AUDIO.

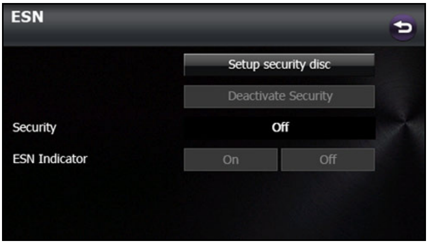
2 Touch Info.

- If Info is not displayed, touch ∨.

3 On the Info screen, touch ESN.



- The ESN setting screen is displayed.

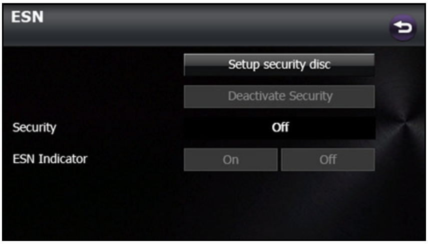


Security Off

■ Operation of ESN security

When ESN security is in operation, the navigation and audio functions of this receiver become inoperable when it is disconnected and subsequently reconnected to the battery terminal of the vehicle.

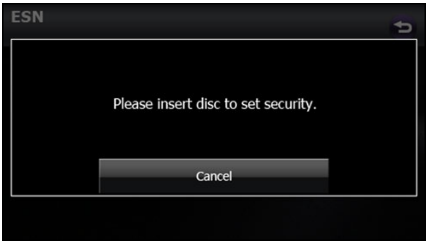
1 On the ESN setting screen, touch Setup security disc.



Security Off

2 "Please insert disc to set security." appears on the screen. Load a music CD into the disc insertion slot.

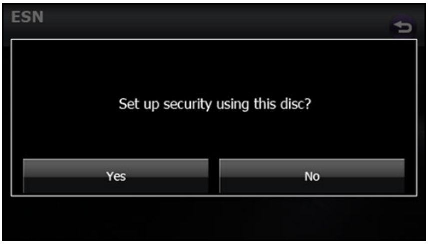
- For disc insertion, see "Loading/Unloading a Disc" on page 21.
- Touch Cancel to cancel the security setting and return to the previous screen.



Please insert disc to set security.

3 “Set up security using this disc?” appears on the screen. Touch Yes.

- The security system is now “On”.
- Touch No to cancel the security setting and return to the previous screen.



Set up security using this disc?

ATTENTION

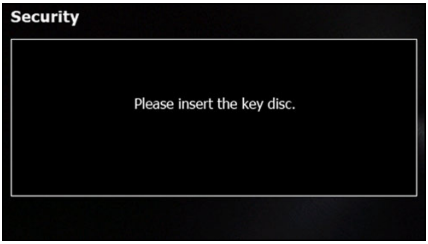
- You can display the current settings in security.
- The registered music CD is required when unlocking the security. It is recommended to make a note of the registered music CD to remind you of which music CD is registered.

■ Unlocking ESN security lock

When you disconnect and then reconnect the battery terminal, the Program reading screen and the Opening screen are displayed first, followed by the Security screen.

1 Insert the registered music CD in the disc insertion slot.

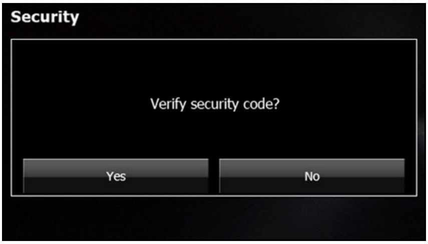
- For disc insertion, see “Loading/Unloading a Disc” on page 21.



Please insert the key disc.

2 “Verify security code?” appears on the screen. Touch Yes.

- This receiver verifies the inserted CD against the registered information, and unlocks the security on completion of the verification.
- Touch No to cancel the security unlocking and return to the previous screen.



Verify security code?

Unit Settings

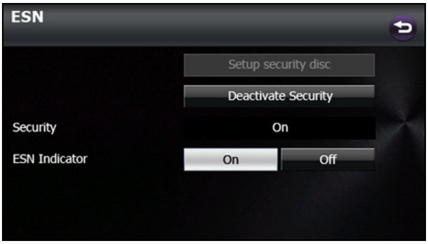
ATTENTION

- If the music CD cannot be verified, you can make a maximum of five attempts to unlock the security. When verification fails, the Customer enquiries screen is displayed.
- When the Customer enquiries screen is displayed, you can no longer operate this receiver. Please contact customer services.

■ Cancelling ESN security

To reapply the ESN security after cancelling, repeat the process of registering a music CD. See “Loading/Unloading a Disc” on page 21.

1 On the ESN setting screen, touch **Deactivate Security**.



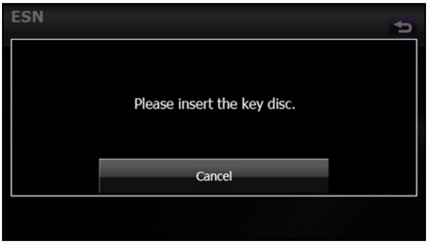
ESN

Security: On

ESN Indicator: On / Off

2 “Please insert the key disc.” appears on the screen. Load a music CD into the disc insertion slot.

- For disc insertion, see “Loading/Unloading a Disc” on page 21.
- Touch **Cancel** to cancel the security setting and return to the previous screen.

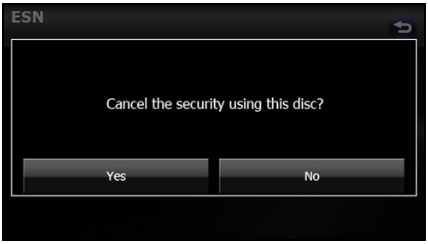


ESN

Please insert the key disc.

3 “Cancel the security using this disc?” appears on the screen. Touch **Yes**.

- The security system is now “Off”.
- Touch **No** to cancel the security setting and return to the previous screen.



ESN

Cancel the security using this disc?

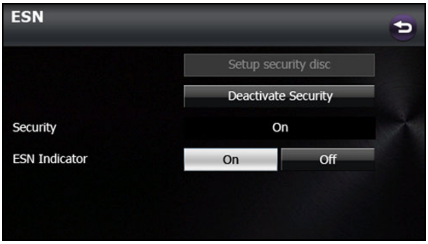
■ Setting display of security indicator

You can select whether to use the security indicator which flashes when ESN security is in operation.

CHECK

You cannot set the indicator unless you have registered a music CD in this receiver.

1 On the ESN setting screen, touch **On** in ESN Indicator.



ESN

Security: On

ESN Indicator: On / Off

Radio Antenna Setting

If your vehicle's radio antenna is an automatic antenna, the radio antenna will remain extended even when the radio is not in use. You can force the antenna to lower at these times.

However, when the antenna is lowered, it will not be possible to use the RDS (Radio Data System).

⚠ CAUTION

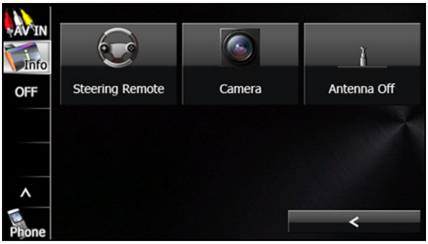
If the ignition switch is turned to OFF (LOCK) when the antenna is lowered, the antenna will remain lowered the next time the ignition switch is turned to ACC or ON. Touch Antenna On on the Info screen.

1 Touch Info.

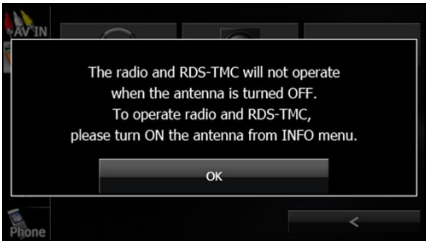
- If the Navigation screen is displayed, change to the Multi screen or Audio operations screen before performing this operation.
- If Info is not displayed, touch ∨.

2 Touch Antenna Off.

- If the Antenna switch is not displayed, touch > to change the page.
- If the radio antenna is lowered, touch Antenna On to raise the antenna.



3 Touch OK.


The radio and RDS-TMC will not operate when the antenna is turned OFF. To operate radio and RDS-TMC, please turn ON the antenna from INFO menu.

Unit Settings

Screen Adjustment and Setting

When Link to Day/Night View on the Settings screen is set to “Headlight” (See page 36), day view or night view is selected based on whether the lights (sidelights, tail lights, license plate light) are on or off, to make it easier to view the screen. When “Time” is set (See page 37), the view changes at the set time.

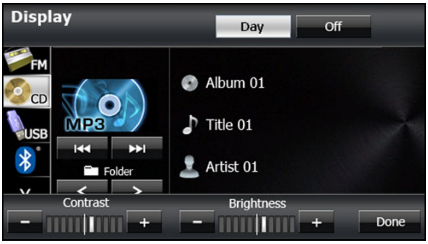
Also, when set to “None” (See page 37), you can manually switch to a day view or a night view screen at any time.

■ Displaying the picture quality adjustment screen

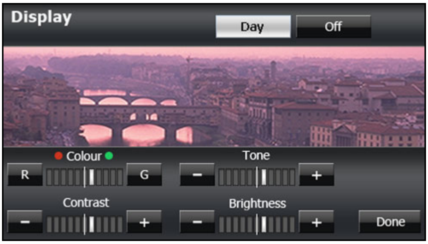
The picture quality adjustment screen has different adjustment items depending on whether it is the operations screen or video screen of the navigation or audio.

1 Press AUDIO for 1 second or more.

2 After completing the adjustment, touch Done.



- For the operations screen



- For the video screen

Changing to the night view or day view

1 Touch Night (Day) if the day (night) view is displayed on the image quality adjustment screen.

- The view changes between night view and day view each time you touch the screen.

ATTENTION

When Link to Day/Night View is set to “None” on the Settings screen, Day or Night is not displayed.

Closing the screen

1 On the picture quality adjustment screen, touch Off.

- To display the screen again, press MAP or AUDIO.

Adjusting the picture quality

You can independently adjust the day view and night view.

1 Display the day view or night view.

- For details on changing the view, see “Changing to the night view or day view” on page 46.

2 Adjust to the desired picture quality.

- Contrast:
  Touch + to increase contrast and touch - to decrease contrast.
- Brightness:
  Touch + to increase brightness and touch - to decrease brightness.
- Colour (only applies to the video screens):
  Touch G to strengthen green colours and touch R to strengthen red colours.
- Tone (only applies to the video screens):
  Touch + to darken colours and touch - to lighten colours.

Checking the Software Version

You can check the version of the navigation and audio software.

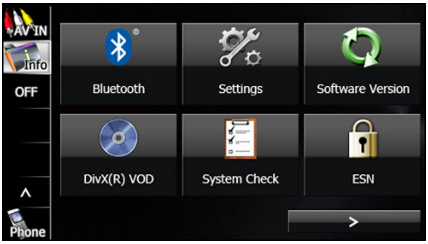
■ Displaying the Software Version screen

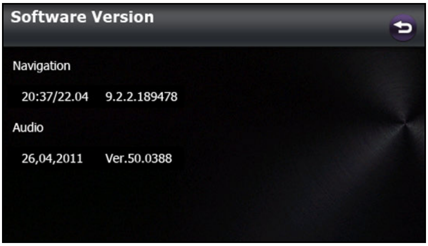
1 Touch Info.

- If the Navigation screen is displayed, change to the Multi screen or Audio operations screen before performing this operation.
- If Info is not displayed, touch ∨.

2 Touch Software Version.

- The Software Version screen appears.




Software Version

Navigation

20:37/22.04 9.2.2.189478

Audio

26,04,2011 Ver.50.0388

- Software Version screen

Unit Settings

Initialising Personal Data

You can delete the data items that you registered and return them to their factory default values.

■ Initialised personal data items

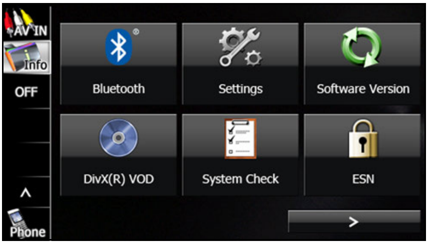
Item	Initialised data
Navigation	● Favourite ● Destination histories ● History ● Indication setting of facilities ● Route search results ● Travel trajectory data ● Shortcuts
Settings	● Clock setting ● Guide tone setting ● Skin pattern setting, Opening screen setting (including data registered in “Customised”) ● Screen settings ● Day/night view changeover setting ● Voice recognition setting (including song data and phone book data) ● Button Illumination Setting ● Voice Guidance Setting ● Camera Screen SW setting
General audio	● Volume setting ● Sound quality setting ● Screen setting
Radio	● AM/FM preset channels
Bluetooth audio	● Bluetooth audio registered data ● Settings and edited items related to Bluetooth audio
Handsfree	● Phone book data ● Outgoing call history and incoming call history ● Speed Dial data ● Bluetooth phone registered data ● Unread messages and read messages ● Reply Messages list ● Settings and edited items related to handsfree messages

■ Initialising personal data

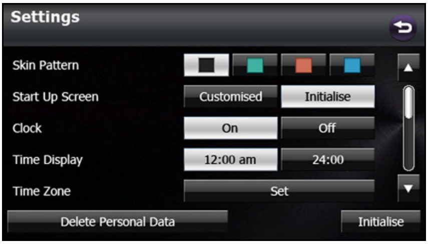
1 Touch Info.

- If the Navigation screen is displayed, change to the Multi screen or Audio operations screen before performing this operation.
- If Info is not displayed, touch ∨.

2 Touch Settings.

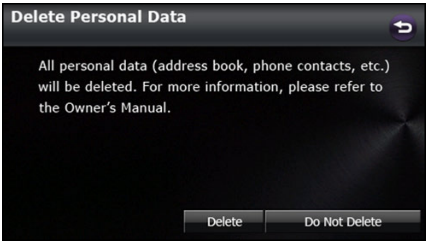


3 Touch Delete Personal Data.



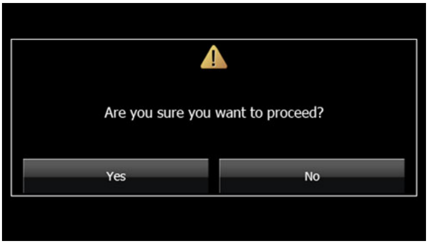
4 Touch Delete.

- Touch Do Not Delete to cancel the initialisation.



All personal data (address book, phone contacts, etc.) will be deleted. For more information, please refer to the Owner's Manual.

5 Touch Yes.



Are you sure you want to proceed?

ATTENTION

Once the information (data) is initialised (deleted), it cannot be restored. Be very careful when performing initialisation.

Bluetooth Handsfree Operation

Bluetooth Handsfree System

The Handsfree system allows you to make or receive a call without taking your hands off the steering wheel by connecting your mobile phone.

This system supports Bluetooth®. Bluetooth® is a wireless data system by which you can call without your mobile phone being connected with a cable or placed on a cable.

If your mobile phone does not support Bluetooth®, this system cannot function.

⚠ WARNING

While driving, do not use a mobile phone or connect a Bluetooth® phone.

⚠ CAUTION

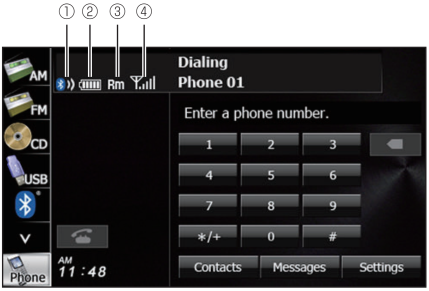
- Do not leave your mobile phone in the car. The indoor temperature may be high and damage the phone.
- When you dispose of your car, take care to delete all the personal data that is registered in your NAVIGATION system. You should delete the following handsfree data from the system;
  - Phone book data
  - Outgoing call history and incoming call history
  - Speed Dial data
  - Bluetooth phone registered data
  - Unread messages and read messages
  - Settings and edited items related to hands-free messages
- Do not leave a Bluetooth-connected phone inside the vehicle. (Direct sunlight may cause the temperature of the vehicle interior to rise very high.)
- When using a Bluetooth-connected phone, keep away from devices inside the vehicle. If you get too close to a device inside the vehicle, the sound or connection quality may drop.
- The frequency band used by these devices is the same band that is used by microwave ovens, wireless devices used in factory production lines for identifying moving objects (license required), special low output wireless devices (license not required), amateur radios (license required), and other industrial, scientific and medical devices. (The 3 types of wireless devices above are hereafter called “other wireless devices”.) When using a Bluetooth-connected phone, check whether “other wireless devices” are nearby. If the Bluetooth-connected phone causes harmful radio wave interference in “other wireless devices”, immediately move the phone to a different location to stop the wireless interference. The frequency band used by Bluetooth-connected phones is the 2.4 GHz band. The FH-SS modulation scheme is used. The estimated distance in which interference may occur is less than 10 m. The band used by Bluetooth-connected phones is the full band, which helps avoid interference with the band used by devices that identify moving objects.

CHECK

- Under the following conditions, the system may not function.
  - The mobile phone is turned off.
  - The current location is outside the communication area.
  - The mobile phone is not connected.
  - The mobile phone has a low battery.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by FUJITSU TEN LIMITED is under license. Other trademarks and trade names are those of their respective owners.
- Compatible Bluetooth Specifications: Bluetooth Specification Ver. 1.1 or higher (Ver. 2.0 + EDR or higher is recommended)
- Compatible Profiles:
  - HFP (Hands Free Profile) Ver.1.0 or later (Conformed Ver.1.5)
  - OPP (Object Push Profile) Ver.1.1 or later
  - SYNC (Synchronization Profile)
  - PBAP (Phone Book Access Profile)
  - MAP (Message Access Profile)
- Bluetooth hands-free feature is subject to mobile phone compatibility.
- Certain feature will be disabled when vehicle is in motion.
- Bluetooth hands-free performance can be influence by mobile phone network, handset and driving condition.

Bluetooth Handsfree Operation

About the Display



Dialing
Phone 01

Enter a phone number.

① Bluetooth signal icon

② Battery level indicator

③ Roaming area icon

④ Reception indicator

■ Bluetooth signal quality icon

Displays the Bluetooth connection status of a mobile phone.

- When a Bluetooth connection is established, “ᛒ” and reception level are displayed.

ATTENTION

- A Bluetooth communication antenna is embedded in the car display.

  If a Bluetooth-enabled mobile phone is used in the following locations or conditions, the Bluetooth connection status display may turn grey or Bluetooth connection may not be possible.

  - When the mobile phone is hidden from the display (when the mobile phone is behind or under a seat or in the glove box or console box).
  - When the mobile phone is touching or covered by a metal object to use a Bluetooth-enabled mobile phone, move the phone to a location where the blue display appears.

- When setting the mobile phone to power saving mode, the Bluetooth connection may be automatically disconnected. If this happens, switch off the power saving mode of the mobile phone.

■ Battery indicator

Displays the battery power remaining for the mobile phone.

- The battery indicator may not match the battery indicator of the mobile phone. Depending on the model, it may not be possible to display the battery power remaining.

■ Roaming area icon

Displayed when connected in the roaming area.

■ Reception indicator

Displays the reception level.

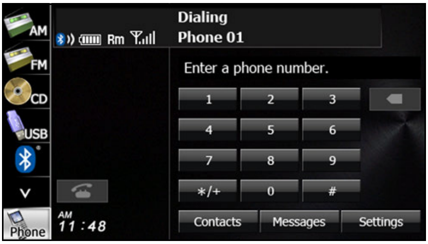
- When “No Service” is displayed, the location is either outside the service area or cannot be reached by the signal. In such situations, the mobile phone itself cannot be used. Move to a location where the “No Service” display is no longer shown.
- Observe the following point when performing hands-free operation with a mobile phone.
  - The reception level may not match the display of the mobile phone. Depending on the model, it may not be possible to display the reception level.

■ Displaying the handsfree screen

1 Press AUDIO.

2 Touch Phone.

- The handsfree screen appears.



- Handsfree screen

■ Registering a mobile phone

⚠ WARNING

Do not register a mobile phone while driving. Be sure to park the vehicle in a safe location and apply the parking brake before registering a mobile phone.

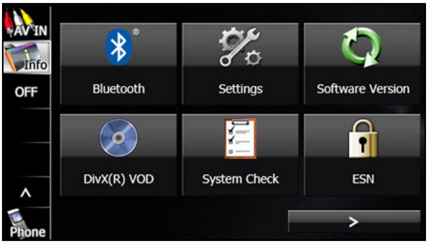
You can register mobile phones on this unit. Up to 5 mobile phones can be registered on the unit. The order of connection precedence is always 1 to 5. When a mobile phone is added or deleted, the order of connection precedence is updated.

1 Press AUDIO.

2 Touch Info.

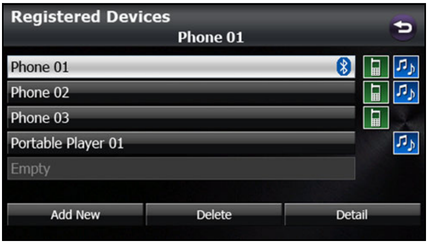
- If Info is not displayed, touch V.

3 Touch Bluetooth.



4 Touch Registered Devices.

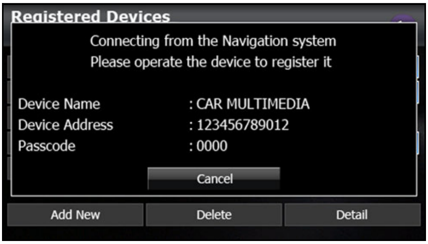
5 Touch Add New.



Bluetooth Handsfree Operation

6 Operate the mobile phone to enter the passcode (passkey) of the unit.

- The name of the unit is CAR MULTIMEDIA.
- The initial setting for the passcode (passkey) is 0000.
- Operate the mobile phone while the Registered Devices screen is displayed.


Registered Devices

Connecting from the Navigation system
Please operate the device to register it

Device Name : CAR MULTIMEDIA
Device Address : 123456789012
Passcode : 0000

- Registered Devices screen

7 When the registration is complete, “Connection Completed” appears.

- The mobile phone registration is complete.
- After the registration completed message is displayed, “Transfer the phonebook from your mobile?” appears. Touch **Yes** or **No**. For the procedure when you touch **Yes**, see step 4 in “Transferring the phone book data from a mobile phone” on page 66.

ATTENTION

- If the registration fails, “Connection failed” appears on the screen. If this happens, perform the registration operation again.
- For details of operations on the mobile phone, see the mobile phone's instruction manual.
- When processing a Bluetooth connection, the Bluetooth Audio may skip.

■ Deleting a mobile phone registration

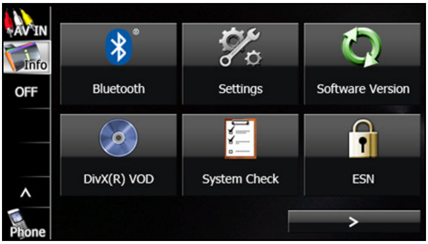
You can delete mobile phones that are registered on the unit.

1 Press AUDIO.

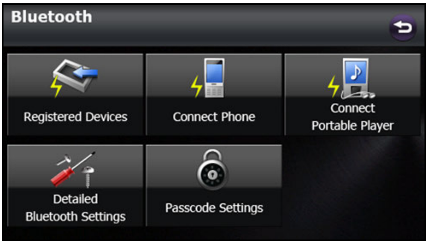
2 Touch **Info**.

- If **Info** is not displayed, touch **V**.

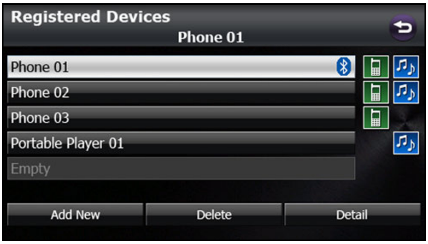
3 Touch **Bluetooth**.



4 Touch **Registered Devices**.



5 Select the mobile phone that you want to delete.



6 Touch Delete.

- "Are you sure you want to delete this device?" appears on the screen. Touch Yes or No.
- After touching Yes, when the deletion is complete, "Completed"appears.
- The mobile phone deletion is complete.

ATTENTION

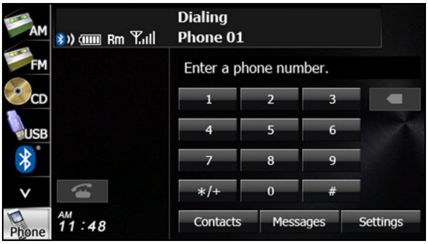
When a mobile phone registration is deleted, the outgoing call history, incoming call history and phone book data that are saved in the unit are also deleted.

■ Connecting a mobile phone

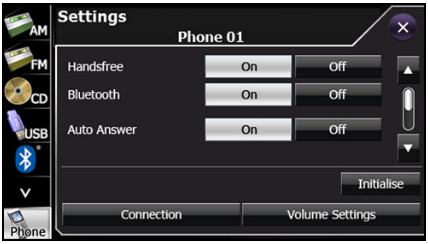
You can connect a mobile phone that is registered on the unit.

- Make the preparations necessary for connecting to the unit, for example by setting the mobile phone's Bluetooth standby to "On".
- For details of operations on the mobile phone, see the mobile phone's instruction manual.

1 On the handsfree screen, touch Settings.



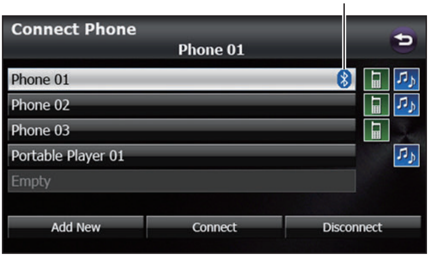
2 Touch Connection.



Bluetooth Handsfree Operation

3 Select the mobile phone that you want to connect.

- The Bluetooth mark is displayed for mobile phones with an active Bluetooth connection.



4 Touch Connect.

5 When the connection is complete, "Connection Completed" appears.

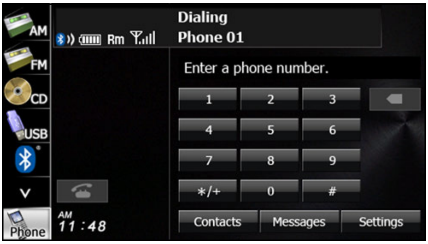
- The connection between the mobile phone and the unit is complete. The Bluetooth signal icon, battery level indicator, roaming area icon (only when in a roaming area), and reception indicator appear on the screen.

ATTENTION

- If the connection fails, "Connection failed" appears on the screen. If this happens, perform the connection operation again.
- Connection is not possible if no mobile phones are registered.
- On the Connect Phone screen, touch Add New to register a mobile phone.
- When processing a Bluetooth connection, the Bluetooth Audio may skip.

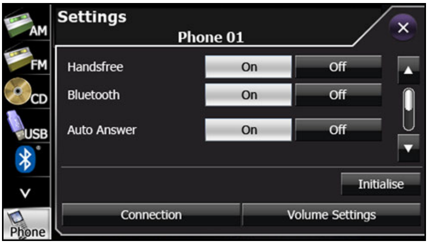
■ Cancelling a mobile phone connection

1 On the handsfree screen, touch Settings.

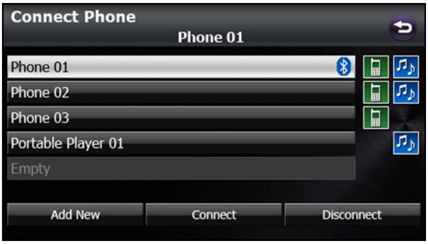


Enter a phone number.

2 Touch Connection.



3 Select the mobile phone with the connection that you want to cancel.



4 Touch Disconnect.

- "Another device already connected. Disconnect this device?" appears on the screen. Touch Yes or No.

5 After touching Yes, when the cancellation is complete, "Connection with the mobile telephone was disconnected." appears.

- The cancellation of the mobile phone connection is complete. The Bluetooth signal icon, battery level indicator, roaming area icon (only when in a roaming area), and reception indicator disappear from the screen.

ATTENTION

On the Connect Phone screen, touch Add New to register a mobile phone.

■ Making a call

⚠ WARNING

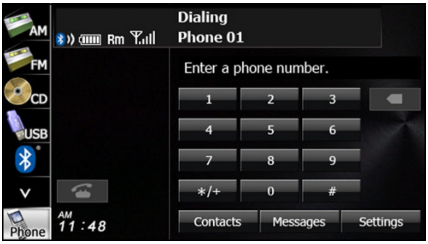
Do not make a call while driving. Be sure to park the vehicle in a safe location and apply the parking brake before making a call.

You can make calls from the unit by entering a telephone number, using a stored number (phone book or Speed Dial), or calling from the incoming (missed call) or outgoing call history.

Making a call by entering a telephone number

1 On the handsfree screen, touch 0 and 1 through 9 to enter the telephone number.

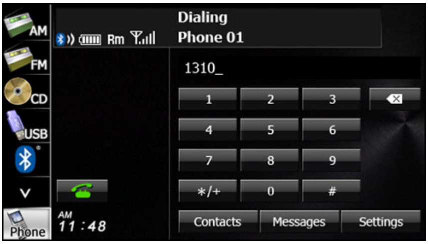
- You can enter telephone numbers of up to 24 digits.
- Touch ⌫ to delete 1 digit from the entered number. Touch for 1 second or more to delete the digits continuously.



Enter a phone number.

2 After entering the telephone number, touch ☎.

- A call is made to the entered telephone number.

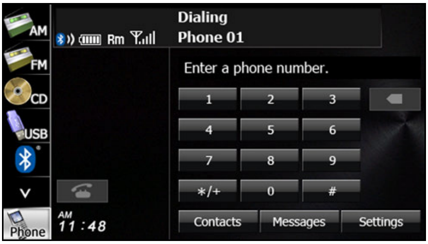


1310_

Bluetooth Handsfree Operation

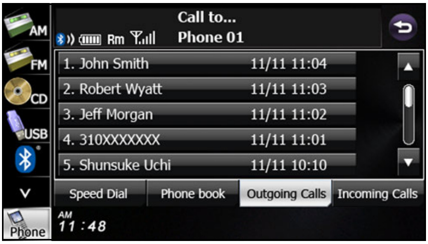
Calling from call history

1 On the handsfree screen, touch **Contacts**.



Enter a phone number.

2 To call from the incoming call history, touch **Incoming Calls**. To call from the outgoing call history, touch **Outgoing Calls**.



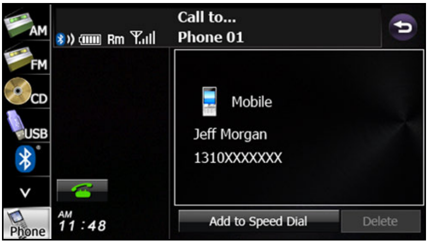
1. John Smith	11/11 11:04
2. Robert Wyatt	11/11 11:03
3. Jeff Morgan	11/11 11:02
4. 310XXXXXXX	11/11 11:01
5. Shunsuke Uchi	11/11 10:10

3 Select the name or telephone number to call from the history.

- Touch ▲ or ▼ to scroll the history list.

4 Touch ☎.

- A call is made to the telephone number that you selected from the history.



Mobile
Jeff Morgan
1310XXXXXXX

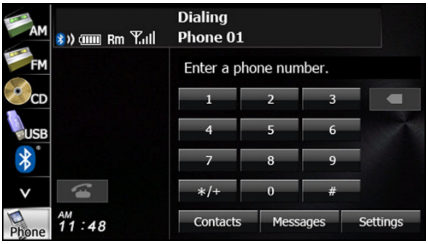
- Touch **Add to Speed Dial** to register the displayed history item in "Speed Dial". (See page 68)

ATTENTION

The incoming and outgoing call histories can each store 10 calls for each registered mobile phone. In the incoming call history, 5 missed calls and 5 other calls can be stored. When 10 calls are stored (5 missed incoming calls and 5 other calls), the oldest call is deleted from the history at the next call.

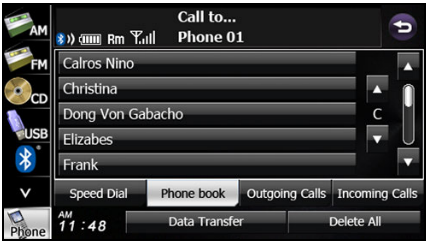
Calling from the phone book

1 On the handsfree screen, touch Contacts.



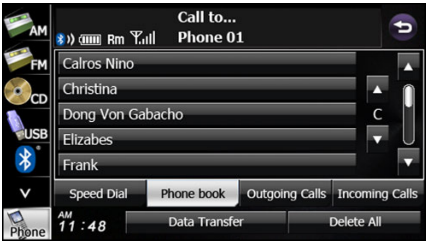
Enter a phone number.

2 Touch Phone book.

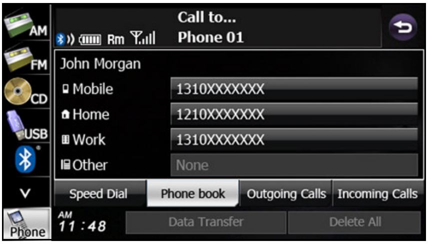


3 Select a person (name or telephone number) to call.

- Touch ▲ or ▼ on the scroll function to scroll the List Page of names or telephone numbers.
- Touch ▲ or ▼ on the index function to display in the list the names or telephone numbers that start with the selected letter or number.



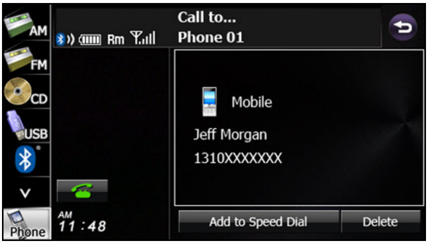
- Touch Data Transfer to transfer the mobile phone's phone book to the unit. (See page 66)
- Touch Delete All to delete all the list data in the phone book.
- If 2 or more telephone numbers are registered for the selected person (name or telephone number), the telephone number selection screen appears. Touch the telephone number that you want to call.



- Telephone number selection screen

4 Touch ☎.

- A call is made to the selected person's telephone number.

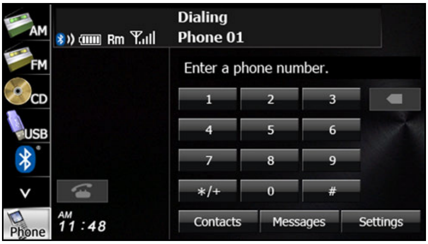


- Touch Add to Speed Dial to register the displayed item in “Speed Dial”. (See page 68)
- Touch Delete to delete the displayed item from each phone book.

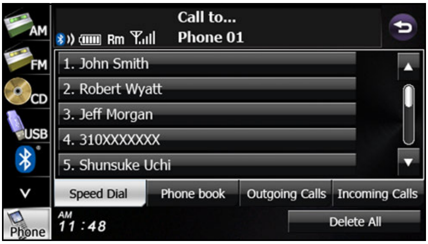
Bluetooth Handsfree Operation

Calling from Speed Dial

1 On the handsfree screen, touch **Contacts**.

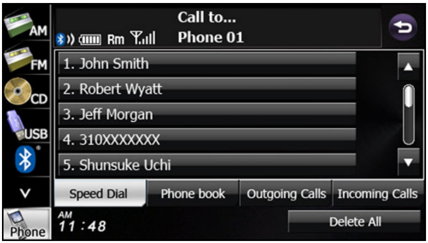


2 Touch **Speed Dial**.



3 Select a person (name or telephone number) to call.

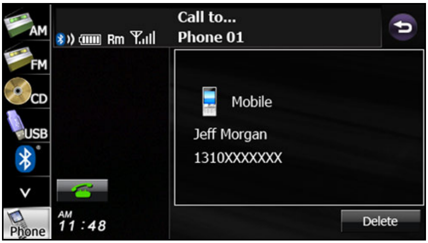
- Touch ▲ or ▼ to scroll the List Page of names or telephone numbers.



- Touch **Delete All** to delete all the list data in the Speed Dial.

4 Touch ☎.

- A call is made to the selected person's telephone number.



- Touch **Delete** to delete the displayed "Speed Dial" item.

ATTENTION

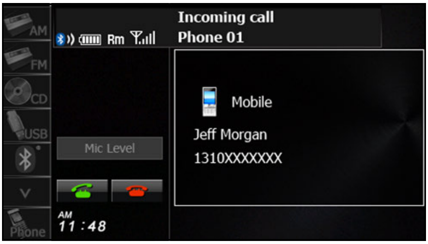
For details on "Speed Dial" registration, see "Registering a Speed Dial number" on page 68.

■ Receiving a call

You can receive incoming calls when any source mode is selected. When a call arrives, the Incoming call screen appears automatically.

1 When you hear the ringtone, touch ☎.

- You are connected and able to talk.
- Touch ☎ to hang up and refuse the incoming call.



Incoming call
Phone 01
Mobile
Jeff Morgan
1310XXXXXXX
AM 11 :48

- Incoming call screen

ATTENTION

You can also receiving calls automatically. See “Auto Answer setting” on page 64.

■ Operations during a call

You can perform the following operations on during a call.

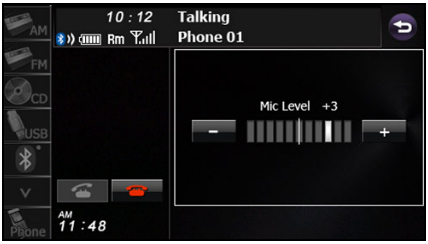
- Adjust the volume for phone calls
- End the call
- Enter numeric keys
- Perform call waiting

Adjust the volume for phone calls

1 On the Talking screen, touch Mic Level.

2 Adjust by touching + or -.

- +:
  Call volume up
  -:
  Call volume down
- Touch + for 1 second or more to raise the volume continuously.
  Touch - for 1 second or more to lower the volume continuously.



10 : 12
Talking
Phone 01
Mic Level +3
AM 11 :48

Bluetooth Handsfree Operation

Transferring a call (private mode ⇔ handsfree mode)

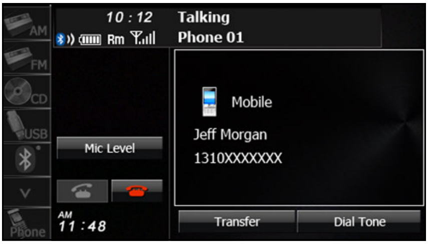
When using a Bluetooth mobile phone, you can transfer calls between the unit and the mobile phone.

The call is switched from a handsfree call to a mobile phone call, or from a mobile phone call to a handsfree call.

Operating with the screen

1 Touch **Transfer**.

- Touch **Transfer** again to switch to a handsfree call.



Operating with the mobile phone

You can transfer calls while making a call, while talking, and while a call is on hold.

- Switch from a mobile phone call to a handsfree call to enable touch switch operations.
- The transfer method and operations vary depending on the type of mobile phone. For details of operations on the mobile phone, see the instruction manual that is supplied with the mobile phone.

ATTENTION

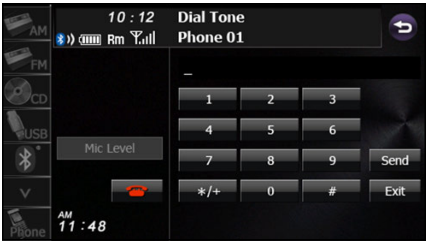
- Calls cannot be transferred while driving.
- If a call is transferred on the screen, the transfer may fail and cut off the sound of the call.

Ending a call

On the Talking screen, touch ☎ to end the call. You can also end the call by hanging up the mobile phone. When a call ends, the handsfree screen disappears.

Entering numeric keys

On the Talking screen for outgoing calls, touch **Dial Tone** to display the Dial Tone screen and enable numeric key input.



- **Send**:

  Send a dial tone that has already been registered in the phone book.

  Exit:

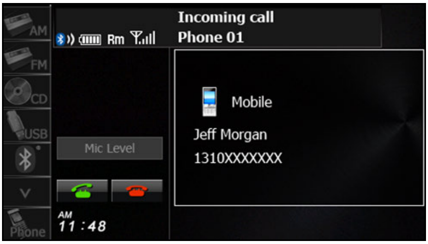
  Skip the tones.

Call waiting

If a call arrives from another phone while you are already talking, you can put the current call on temporary hold by using the Talking screen and receive the new incoming call.

1 When you hear the ringtone, touch ☎ on the Talking screen.

- You can put the current call on hold and connect to the new call.
- To end call waiting, touch ☎. When call waiting ends, the phone connects to the call that was put on hold and you can continue the previous call.
- During call waiting, touch ☎ again to switch between the callers.


Incoming call
Phone 01
Mobile
Jeff Morgan
1310XXXXXXX
AM 11 :48

ATTENTION

If a call waiting contract has not been setup for the mobile phone itself, you cannot use the call waiting function.

Setting and Editing Bluetooth Handsfree

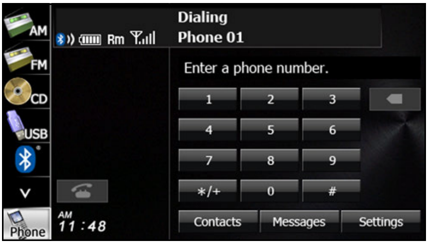
⚠ WARNING

Do not set or edit mobile phones while driving. Be sure to park the vehicle in a safe location before performing setting or editing operations.

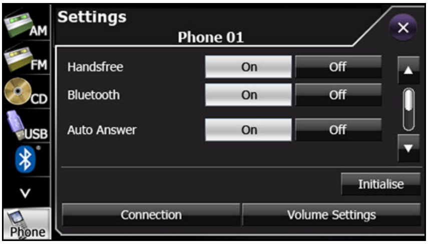
■ Handsfree settings

You can perform settings for handsfree operation on the phone Settings screen. You can perform settings individually for each registered mobile phone. For details on switching the mobile phone, see “Connecting a mobile phone” on page 55.

1 On the handsfree screen, touch Settings.

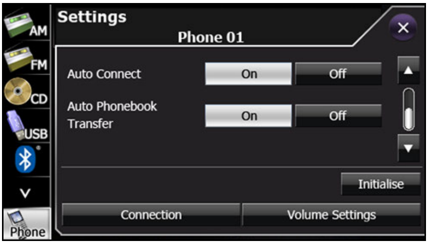

Dialing
Phone 01
Enter a phone number.
AM 11 :48

2 On the phone Settings screen, you can perform the following settings by touching the setting switches for each item.


Settings
Phone 01
Handsfree On Off
Bluetooth On Off
Auto Answer On Off

- Phone Settings screen (page 1)

Bluetooth Handsfree Operation



- Phone Settings screen (page 2)

Item	Function
Handsfree	Set the handsfree function to on or off.
Bluetooth	Set the Bluetooth function to on or off.
Auto Answer	Set automatic call acceptance.
Auto Connect	Set automatic connection between a registered mobile phone and the unit.
Auto Phonebook Transfer	Automatically transfer the phone book to the unit when a mobile phone is registered.
Initialise	Return the settings displayed on the phone Settings screen to their initial values.
Connection	Display the Connect Phone screen to register a mobile phone or perform connection settings. (See page 55)
Volume Settings	Display the Volume Settings screen to perform settings for the ringtone or call volume.

Handsfree setting

Set the handsfree function to on or off.

- When handsfree is set to “Off”, you cannot be sent a telephone number from a this unit.

1 Touch On or Off.

Bluetooth setting

Set the Bluetooth function to on or off.

1 Touch On or Off.

Auto Answer setting

Start the call automatically 5 seconds after the arrival of an incoming call.

1 Touch On or Off.

Auto Connect setting

Set automatic connection between a registered mobile phone and the unit.

1 Touch On or Off.

Auto Phonebook Transfer setting

Automatically transfer the phone book to the unit when a mobile phone is registered.

1 Touch On or Off.

Setting initialisation

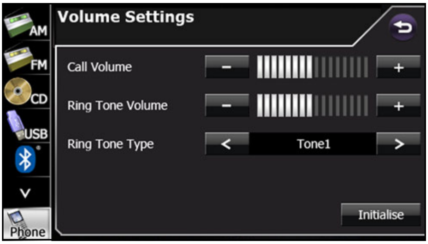
Touch Initialise to return the “Handsfree”, “Bluetooth”, “Auto Answer”, “Auto Connect” and “Auto Phonebook Transfer” settings to their initial values.

■ Volume setting (handsfree)

You can set the handsfree volume on the Volume Settings screen. You can perform settings individually for each registered mobile phone. For details on switching the mobile phone, see “Connecting a mobile phone” on page 55.

⚠ CAUTION

Be sure to set the volume of the audio at an appropriate level. Improper volume setting may result in hearing damage or a traffic accident.



Volume Settings

Call Volume

Ring Tone Volume

Ring Tone Type Tone1

Call Volume setting

You can adjust the call volume.

1 Adjust by touching + or - .

- + :
  Call volume up
  - :
  Call volume down
- Touch + for 1 second or more to raise the volume continuously.
  Touch - for 1 second or more to lower the volume continuously.

Ring Tone Volume setting

You can adjust the volume of the ringtone.

1 Adjust by touching + or - .

- + :
  Ringtone volume up
  - :
  Ringtone volume down
- Touch + for 1 second or more to raise the volume continuously.
  Touch - for 1 second or more to lower the volume continuously.

Ring Tone Type setting

You can set the ringtone.

1 Touch < or > .

- Tone 1 ⇔ Tone 2 ⇔ Tone 3 ⇔ Tone 1 ⇔ ...

Initialising the settings

Touch Initialise to return the sound settings (handsfree) to their initial values.

Bluetooth Handsfree Operation

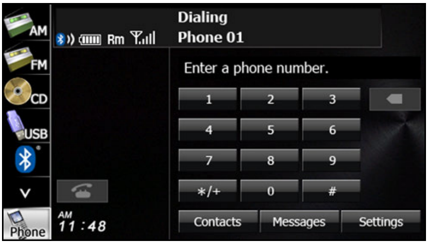
■ Editing the phone book

You can register telephone numbers in the phone book of the unit by transferring the phone book that is registered in the mobile phone.

Transferring the phone book data from a mobile phone

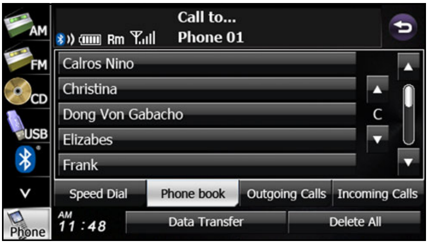
You can transfer the telephone numbers (phone book data) that are registered in the mobile phone to the unit. In the phone book of this unit, you can register up to 4 telephone numbers for each person in each registered mobile phone, and you can register data for up to 1000 persons.

1 On the handsfree screen, touch **Contacts**.



Enter a phone number.

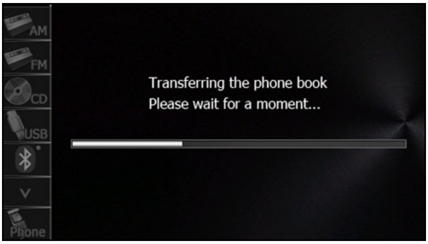
2 Touch **Phone book**.



3 Touch **Data Transfer**.

4 When the phone book transfer screen appears, operate the mobile phone to transfer the phone book data.

- Perform the transfer operation on the mobile phone while the phone book transfer screen is displayed.
- When the transfer is in progress, wait until the transfer completed message appears.
- When the transfer is complete, the transfer completed message appears.



Transferring the phone book
Please wait for a moment...

- Phone book transfer screen

ATTENTION

- Start the engine to prevent the battery from running out during transfer.
- This function cannot be used with mobile phones that do not support PBAP (Phone Book Access Profile) or OPP (Object Push Profile).
- Some mobile phones are not able to transfer the phone book data.
- The method of transferring the phone book data from the mobile phone varies depending on the mobile phone. For details, see the mobile phone's instruction manual.

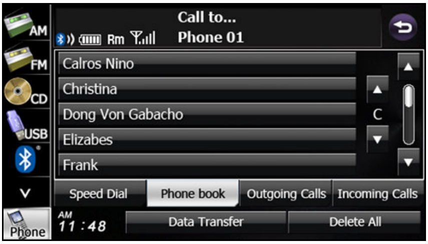
- When transferring the phone book data, the following restrictions apply to the data items.
  - If 5 or more telephone numbers are registered for 1 person in the phone book of the mobile phone, the top 4 telephone numbers are registered in the order “Mobile”, “Home”, “Work”, and “Other”. If the 4 entries have not been filled, the number is registered in the highest available slot.
  - Names are also transferred at the same time as the telephone numbers, but symbols may not be transferred by some models, and sometimes not all the characters may be transferred. Also, even if the data is transferred, it may not be displayed correctly.
  - Normally, a secret memory cannot be read. (Although it may be possible depending on the specifications of the mobile phone.)
  - Group names that are registered in the mobile phone are not transferred.
- In models where batch transfer is possible, the following applies when transferring the phone book data.
  - The time taken for the transfer depends on the number of telephone numbers and the size of the phone book data that are transferred. Depending on the data, it may take 30 minutes or longer.
  - You can change to another screen even when the phone book data transfer screen is displayed. If you do this, the transfer of the phone book data continues.
- Operations when phone book data transfer is in progress are dealt with as follows.
  - If there is an incoming call during phone book data transfer, one of the operations is prioritised depending on the circumstances. When the incoming call is prioritised, the incoming call is taken on the mobile phone. In this case, perform the transfer operation again after completing the call.
  - If the ignition switch is turned to OFF (LOCK) during the phone book data transfer, the transfer is cancelled. If this happens, start the engine and perform the transfer operation again.
- In the following cases, the phone book data that has already been transferred is saved in the phone book of the unit.
  - When the transfer ends partway because the memory capacity of the unit is reached.
  - When the transfer is cancelled due to some reason.
- The phone book of the unit cannot be transferred to a mobile phone.
- During phone book data transfer, the Bluetooth Audio may skip.

Deleting the phone book data

You can delete the phone book data by selecting 1 number from a phone book, or by deleting all the phone book data.

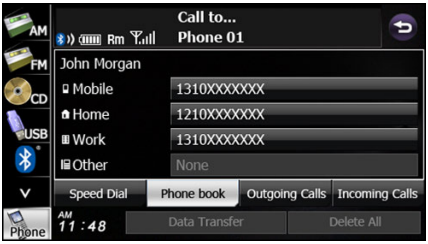
1 On the phone book screen, touch the data item that you want to delete.

- Touch Delete All to delete all the phone book data.



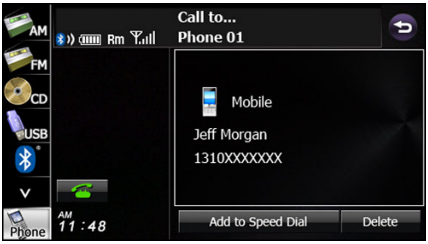
Bluetooth Handsfree Operation

- If 2 or more telephone numbers are registered for the selected person (name or telephone number), the telephone number selection screen appears. Touch the telephone number.



- Telephone number selection screen

2 Touch **Delete**.



3 Touch **Yes**.

ATTENTION

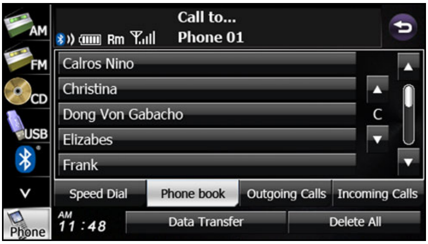
- When transferring the ownership of your vehicle, initialise your personal data. (See page 48)
- When “Auto Phonebook Transfer” setting is “On”, the phone book data will be automatically transferred if your mobile phone is reconnected even after deleting the phone book data.

■ Registering a Speed Dial number

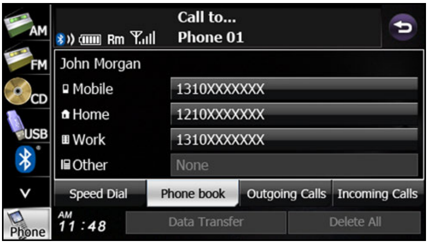
You can register telephone numbers from the phone book or call histories as Speed Dial numbers. You can register up to 5 telephone numbers for each mobile phone that is registered on the unit.

Registering a Speed Dial number from the phone book

1 On the phone book screen, touch the data item that you want to register.

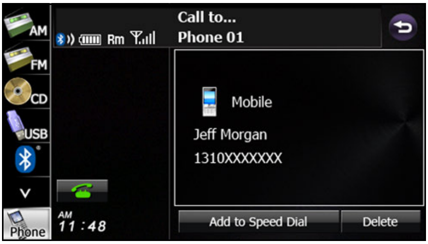


- If 2 or more telephone numbers are registered for the selected person (name or telephone number), the telephone number selection screen appears. Touch the telephone number that you want to register.



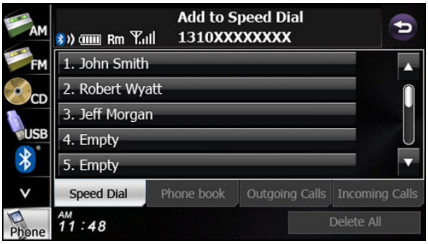
- Telephone number selection screen

2 Touch **Add to Speed Dial**.



3 Touch the number in the Speed Dial list where you want to register the telephone number.

- "Speed Dial Saved." appears and the Speed Dial registration is complete.

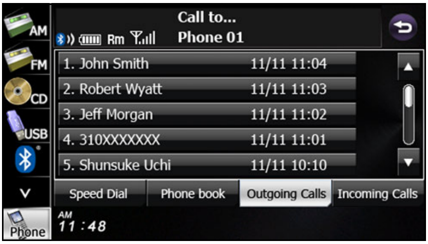


ATTENTION

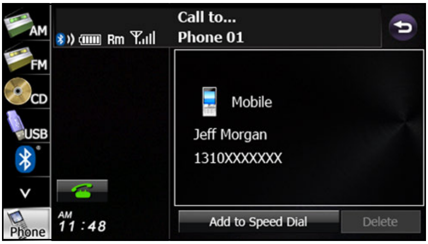
If Speed Dial data already exists for the number, "Are you sure you want to overwirte the entry?" appears. To overwrite the existing data, touch **Yes**.

Registering a Speed Dial number from a history

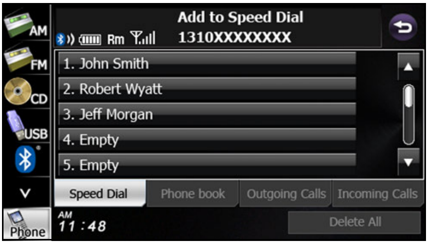
1 On the history screen, touch the data item that you want to register.


AM
FM
CD
USB
Rm
Call to...
Phone 01
1. John Smith 11/11 11:04
2. Robert Wyatt 11/11 11:03
3. Jeff Morgan 11/11 11:02
4. 310XXXXXXX 11/11 11:01
5. Shunsuke Uchi 11/11 10:10
Speed Dial
Phone book
Outgoing Calls
Incoming Calls
AM 11 :48
Phone

2 Touch **Add to Speed Dial**.



3 Touch the number in the Speed Dial list where you want to register the telephone number.



- "Speed Dial Saved." appears and the Speed Dial registration is complete.

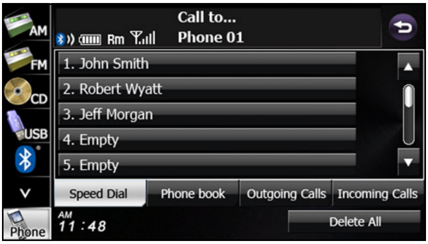
Bluetooth Handsfree Operation

ATTENTION

If Speed Dial data already exists for the number, “Are you sure you want to overwirte the entry?” appears. To overwrite the existing data, touch **Yes**.

Registering from “Empty” in the Speed Dial list

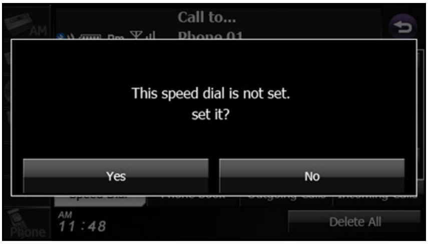
1 On the Speed Dial screen, touch the “Empty” item where you want to register the telephone number.



Call to...
Phone 01

1. John Smith
2. Robert Wyatt
3. Jeff Morgan
4. Empty
5. Empty

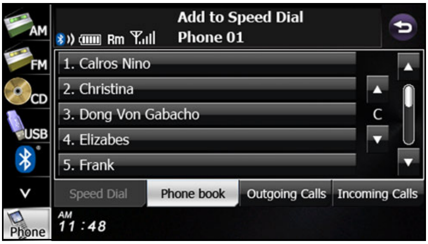
2 Touch **Yes**.



This speed dial is not set.
set it?

3 In the phone book or a call history, touch the data item that you want to register.

- If you touch a data item in the phone book that has 2 or more registered telephone numbers, the telephone number selection screen appears. Touch the telephone number that you want to register.
- “Speed Dial Saved.” appears and the Speed Dial registration is complete.



Add to Speed Dial
Phone 01

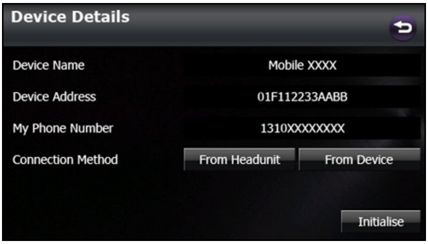
1. Calros Nino
2. Christina
3. Dong Von Gabacho
4. Elizabes
5. Frank

■ Displaying Device Details

In the Device Details screen, you can display and set information related to the mobile phones that are registered in the unit.

The following information items are displayed.

- Device Name
  This is the name of the mobile phone that is displayed on the unit and cannot be changed.
- Device Address
  This is the unique address of the device and cannot be changed.
- My Phone Number
  The telephone number of the mobile phone.
- Connection Method
  You can select “From Headunit” or “From Device” as the connection method.



Device Details

Device Name	Mobile XXXX
Device Address	01F112233AABB
My Phone Number	1310XXXXXXXX
Connection Method	From Headunit / From Device

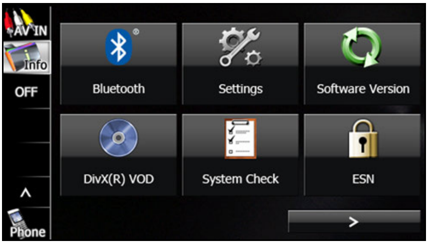
- Device Details screen

1 Press AUDIO.

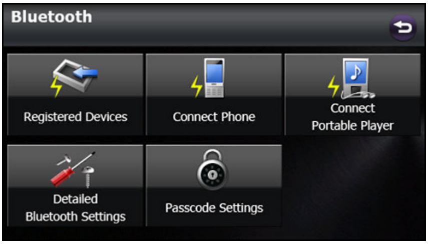
2 Touch Info.

- If Info is not displayed, touch ∨.

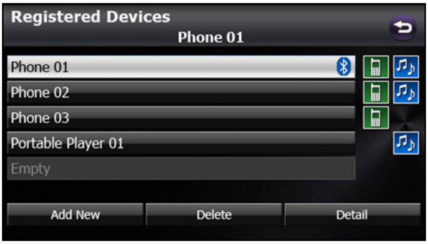
3 Touch Bluetooth.



4 Touch Registered Devices.



5 Touch the mobile phone for which to display the detailed information.



6 Touch Detail.

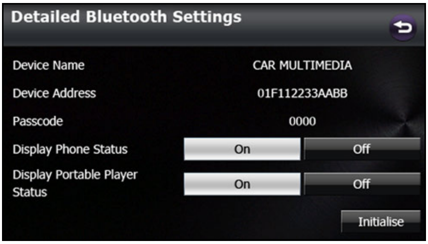
- The Device Details screen appears.

Bluetooth Handsfree Operation

■ Displaying Detailed Bluetooth Settings for the unit

In the Detailed Bluetooth Settings screen, you can display and set information related to Bluetooth devices that are registered on the unit.

The following information items are displayed.


Detailed Bluetooth Settings

Device Name CAR MULTIMEDIA
Device Address 01F112233AABB
Passcode 0000
Display Phone Status On Off
Display Portable Player Status On Off
Initialise

- Detailed Bluetooth Settings screen

- Device Name

  The name of the unit within the Bluetooth network.

- Device Address

  The unique address of the device that is registered on the unit.

- Passcode (passkey)

  A number for registering the mobile phone. You can change this to any number with 4 to 8 digits. (See page 73)

- Display Phone Status

  You can set whether or not to display the result of connecting via Bluetooth to a mobile phone when turning the ignition switch from OFF (LOCK) to ACC or ON.

- Display Portable Player Status

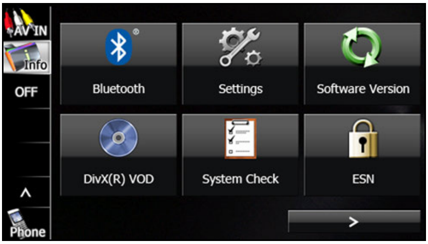
  You can set whether or not to display the result of connecting via Bluetooth to a portable player when turning the ignition switch from OFF (LOCK) to ACC or ON.

1 Press AUDIO.

2 Touch **Info**.

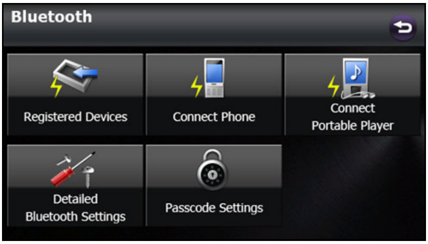
- If **Info** is not displayed, touch **∨**.

3 Touch **Bluetooth**.



4 Touch **Detailed Bluetooth Settings**.

- The Detailed Bluetooth Settings screen appears.



■ Changing the passcode (passkey)

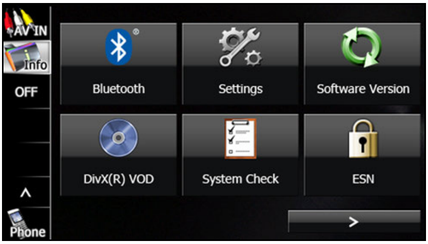
You can change the passcode (passkey) for mobile phone registration to any number with 4 to 8 digits.

1 Press AUDIO .

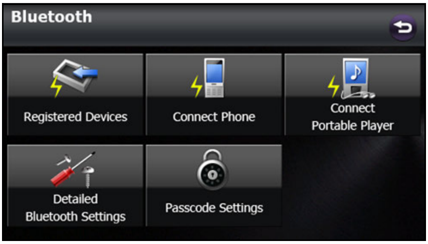
2 Touch Info .

- If Info is not displayed, touch ∨ .

3 Touch Bluetooth .

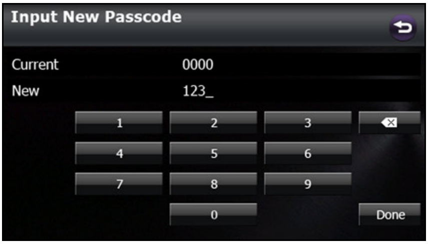


4 Touch Passcode Settings .



5 Enter a number by touching 1 digit at a time, and enter a number with 4 to 8 digits.

- If you make a mistake, touch ⌫ to delete 1 digit at a time. Touch for 1 second or more to delete the digits continuously.


Input New Passcode

Current 0000

New 123_

6 Touch Done .

Bluetooth Handsfree Operation

Using the messaging function

You can read messages that are received on the mobile phone or send messages that are created on the unit.

3 message types can be used on this unit: SMS (Short Message Service), MMS (Multimedia Messaging Service), and e-mail.

You can also check received messages through audio playback.

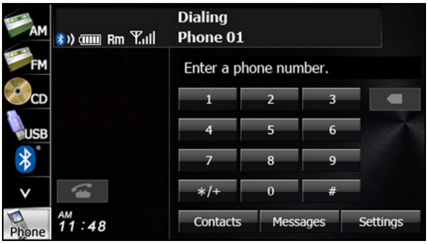
CHECK

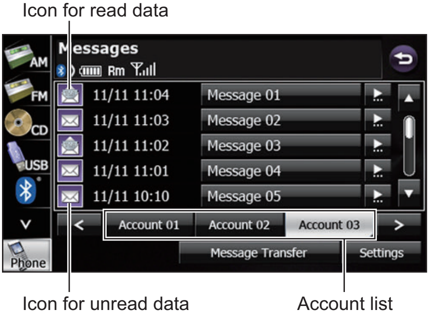
- Compatible Profiles:
  - HFP (Hands Free Profile) Ver.1.0 or later (Conformed Ver.1.5)
  - MAP (Message Access Profile)
- This function cannot be used with mobile phones that do not support HFP (Hands Free Profile) and MAP (Message Access Profile). For details, see the mobile phone's instruction manual.

■ Displaying the Messages screen

1 On the handsfree screen, touch **Messages**.

- The Messages screen appears.





11/11 11:04 Message 01
11/11 11:03 Message 02
11/11 11:02 Message 03
11/11 11:01 Message 04
11/11 10:10 Message 05

- Messages screen

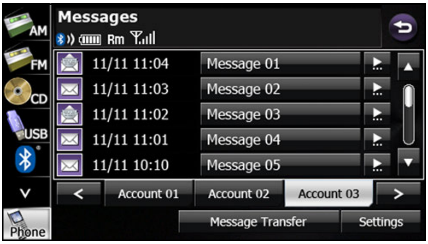
- Touch an account list to display the corresponding message list.
- Touch ▲ or ▼ to scroll the pages in the message list.
- Touch ▶ to scroll the addresses and title data. During or after scrolling, touch ◀ to return to the beginning of the data.
- **>**:
  Advance to the message list of the next account.
  <:
  Return to the message list of the previous account.
- **Message Transfer**:
  Start the transfer of messages from the mobile phone to update the message list.
- **Settings**:
  Use to perform various settings for the messaging function. (See page 79)
- **↩**:
  Return to the handsfree screen.

ATTENTION

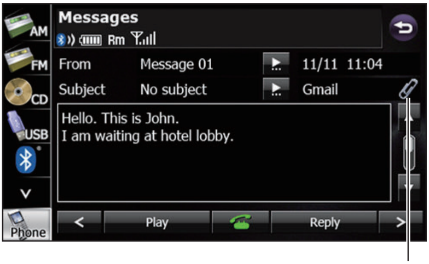
You cannot delete the messages that are received. When 50 messages are stored, the oldest messages is deleted from the account list.

■ Checking received messages

1 On the Messages screen, touch the message that you want to check.



11/11 11:04	Message 01
11/11 11:03	Message 02
11/11 11:02	Message 03
11/11 11:01	Message 04
11/11 10:10	Message 05

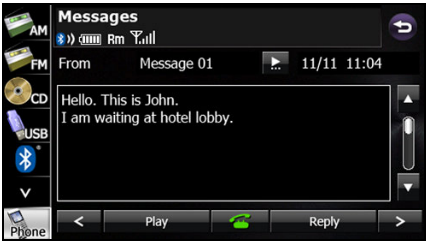


From Message 01 11/11 11:04
Subject No subject Gmail

Hello. This is John.
I am waiting at hotel lobby.

Attached file icon

- MMS and e-mail details screen



From Message 01 11/11 11:04

Hello. This is John.
I am waiting at hotel lobby.

- SMS details screen

- Touch ▲ or ▼ to scroll the pages in the message list.
- Touch ▶ to scroll the addresses and title data. During or after scrolling, touch ◀ to return to the beginning of the data.
- >:
  Advance to the next message.

  <:
  Return to the previous message.
- Play:
  Perform audio playback of the message.
- Reply:
  Display the message reply screen.
- ☎:
  If there is telephone number data in the address, you can touch ☎ to call the number.
- ↩:
  Return to the Messages screen.

ATTENTION

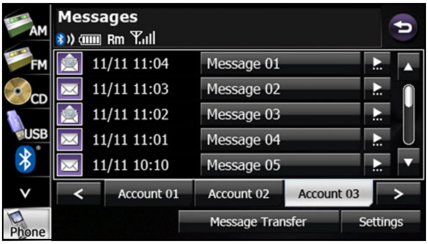
When a file is attached, an icon is displayed in the message details screen. The contents of the attached file are not displayed. Check them with the mobile phone.

Bluetooth Handsfree Operation

■ Replying to a message

You can select a reply destination from the Messages list and send a message that you created on the unit.

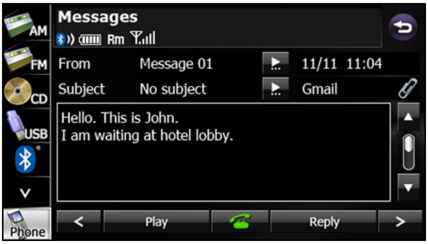
1 On the Messages screen, touch the message to which you want to reply.



Messages

11/11 11:04 Message 01
11/11 11:03 Message 02
11/11 11:02 Message 03
11/11 11:01 Message 04
11/11 10:10 Message 05

2 Touch **Reply**.

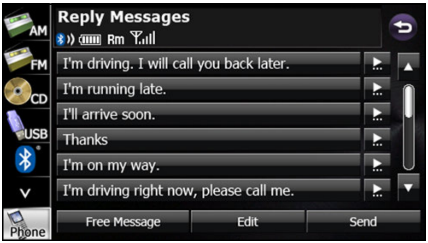


Messages

From Message 01 11/11 11:04
Subject No subject Gmail

Hello. This is John.
I am waiting at hotel lobby.

3 Touch the message that you want to use from the Reply Messages list.



Reply Messages

I'm driving. I will call you back later.
I'm running late.
I'll arrive soon.
Thanks
I'm on my way.
I'm driving right now, please call me.

- Touch ▲ or ▼ to scroll the pages of the Reply Messages list.
- **Edit**:
  Edit a registered reply message. (See page 77)
- **Free Message**:
  Create any message and use it as the reply. (See page 77)
- **⮌**:
  Return to the message details screen.

4 Touch **Send**.

- The message is sent.

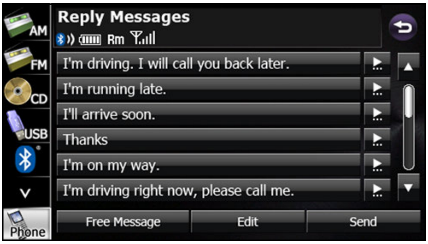
ATTENTION

18 messages are registered in Reply Messages in the initial setting.

Editing the Reply Messages list

You can edit the messages that are registered in the list.

1 On the Reply Messages screen, touch the message that you want to change.



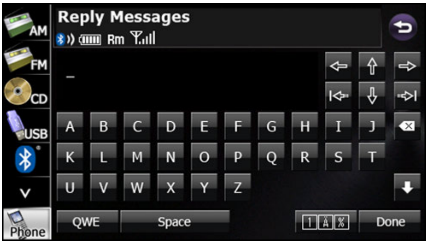
I'm driving. I will call you back later.
I'm running late.
I'll arrive soon.
Thanks
I'm on my way.
I'm driving right now, please call me.

2 Enter a message.

- Touch Edit.

3 Touch the keyboard and enter any message.

- For details on entering the characters, see “Entering characters” on page 78.



4 Touch Done.

- The message is registered.

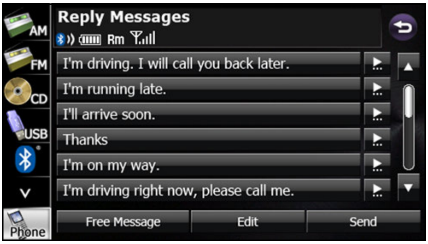
ATTENTION

You can enter up to 160 single-byte characters in a reply message.

Sending a Free Message

You can create any message and use it as the reply.

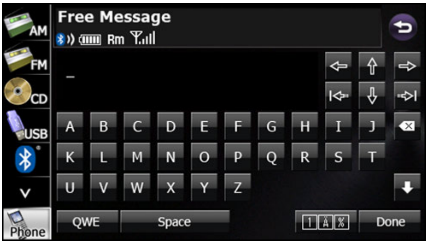
1 On the Reply Messages screen, touch Free Message.



I'm driving. I will call you back later.
I'm running late.
I'll arrive soon.
Thanks
I'm on my way.
I'm driving right now, please call me.

2 Enter a message.

- For details on entering the characters, see “Entering characters” on page 78.



3 Touch Send.

- The message is sent.

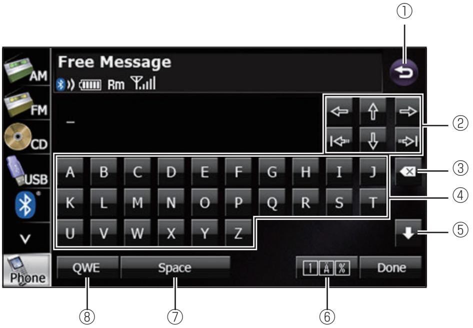
ATTENTION

You can enter up to 160 single-byte characters in a free message.

Bluetooth Handsfree Operation

Entering characters

Touch the following switches to enter characters.

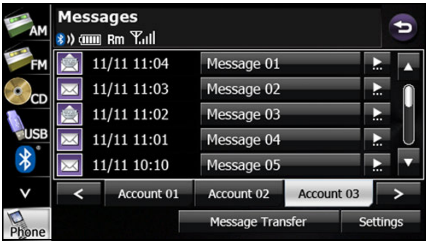


①	↩	Return to the previous screen.
②	⇦ ⇨ ⇧ ⇩	Move the cursor. (Previous, next, up, down)
	|⇦ ⇨|	Move the cursor. (Top, end)
③	⌫	Delete 1 character. ● Touch for 1 second or more to delete the characters continuously.
④	Input switches	Touch a switch to enter the corresponding character.
⑤	⇩/⇧	Switch between upper case and lower case characters.
	1/2 ▼/▲ 2/2	Scroll the pages. (Only in the 0-9-% character display)
⑥	1Ä%	Touch to change the characters in the following order: Latin characters → Umlaut → 0-9-% → Latin characters → ...
⑦	Space	Enter a blank space.
⑧	QWE	Switch between keyboard layouts. Alphabet layout → QWERTY layout → Alphabet layout → ...

■ Various message settings

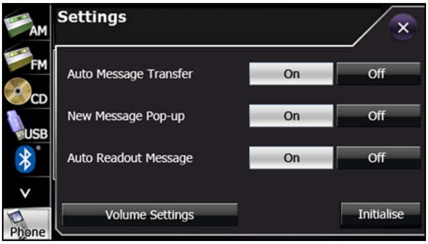
You can perform message settings on the Message Settings screen. You can perform message settings individually for each registered mobile phone. For details on switching the mobile phone, see “Connecting a mobile phone” on page 55.

1 On the Messages screen, touch **Settings**.



11/11 11:04 Message 01
11/11 11:03 Message 02
11/11 11:02 Message 03
11/11 11:01 Message 04
11/11 10:10 Message 05

2 On the message Settings screen, you can perform the following settings by touching the setting switches for each item.



Auto Message Transfer On Off
New Message Pop-up On Off
Auto Readout Message On Off

- Message Settings screen

- Touch **Initialise** to return the settings in the message Settings screen to their initial values.

Item	Function
Auto Message Transfer	Set messages to be transferred automatically.
New Message Pop-up	Set a new message pop-up to be displayed.
Auto Readout Message	Set messages to be read out automatically.
Volume Settings	Display the message volume setting screen to set the various volumes.

Auto Message Transfer setting

On the handsfree screen, touch **Messages** to transfer messages from the mobile phone automatically.

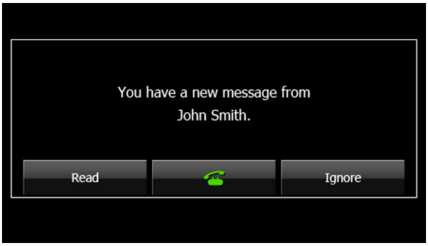
1 Touch **On** or **Off**.

Bluetooth Handsfree Operation

New Message Pop-up setting

You can set a new message pop-up to be displayed on the screen when a message is received.

1 Touch **On** or **Off**.



You have a new message from
John Smith.

- New Message Pop-up

- **Read**:
  Display the Messages screen.
- **☎**:
  If there is telephone number data in the address, you can touch **☎** to call the number.
- **Ignore**:
  Return to the previous screen.

Auto Readout Message setting

You can set messages to be played with audio playback when they are received.

1 Touch **On** or **Off**.

■ Setting the message volumes

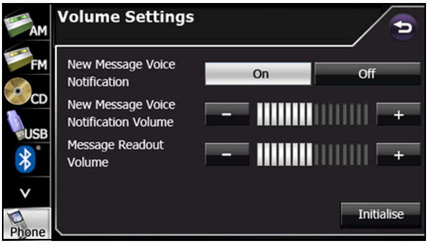
You can set the various message volumes on the Volume Settings screen. You can perform message settings individually for each registered mobile phone. For details on switching the mobile phone, see “Connecting a mobile phone” on page 55.

⚠ CAUTION

Be sure to set the volume of the audio at an appropriate level. Improper volume setting may result in hearing damage or a traffic accident.

1 On the message Settings screen, touch **Volume Settings**.

2 You can perform the following settings by touching the setting switches for each item.



Volume Settings

New Message Voice Notification: On / Off

New Message Voice Notification Volume

Message Readout Volume

- Volume Settings screen

- Touch **Initialise** to return the settings in the Volume Settings screen to their initial values.

ATTENTION

MMS messaging function can not display the picture on the audio screen, only message characters.

New Message Voice Notification setting

You can set a voice notification for when a new message is received.

1 Touch On or Off.

New Message Voice Notification Volume setting

You can adjust the volume of the new message voice notification.

1 Touch - or +.

- + (right side):
  Volume up
  - (left side):
  Volume down
- Touch + for 1 second or more to raise the volume continuously.
  Touch - for 1 second or more to lower the volume continuously.

Message Readout Volume setting

You can adjust the volume of the message readout.

1 Touch - or +.

- + (right side):
  Volume up
  - (left side):
  Volume down
- Touch + for 1 second or more to raise the volume continuously.
  Touch - for 1 second or more to lower the volume continuously.

■ About the messaging function

- Supported message standards:
  SMS (Short Message Service)
  MMS (Multimedia Messaging Service)
  E-mail
- Maximum number of address characters:
  256 single-byte characters
- Maximum number of subject characters:
  256 single-byte characters
- Maximum number of message characters:
  160 single-byte characters
- Maximum receivable message size:
  50 KB or less

Information on Warnings and Safety

The navigation system uses a built-in GPS receiver to guide you to your destination. This software does not transmit the GPS position of your vehicle, and cannot be used to track the vehicle.

Do not look at the navigation screen if it is not safe to do so. If the driver is operating the navigation system, we strongly recommend operating the software before you start driving. Program the route before leaving, and stop your vehicle in a safe place if you need to change the route.

Follow all road signs and road conditions. If you deviate from the recommended route while driving, the software updates the route according to your current position.

For details, see “End-User License Agreement” on page 154.

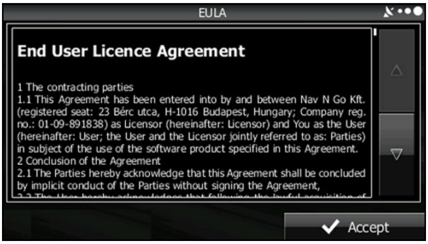
Before Using the Navigation System

This software is designed for optimum performance when used for car navigation. It does not need a stylus for operation. You can easily use buttons and maps on the screen by touching them with the tip of your finger.

When you start the navigation software for the first time, the initial settings screen is automatically displayed. Follow the steps below to use the initial settings screen.

Navigation settings

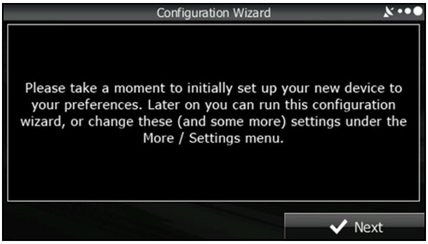
1 Confirm the end-user license agreement. Touch **Accept** to continue.



End User Licence Agreement

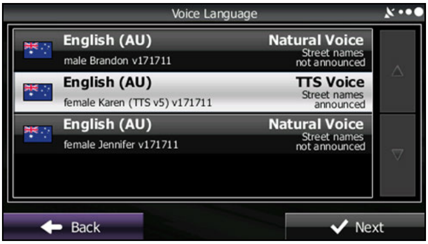
1 The contracting parties
1.1 This Agreement has been entered into by and between Nav N Go Kft. (registered seat: 23 Bérc utca, H-1016 Budapest, Hungary; Company reg. no.: 01-09-891838) as Licensor (hereinafter: Licensor) and You as the User (hereinafter: User; the User and the Licensor jointly referred to as: Parties) in subject of the use of the software product specified in this Agreement.
2 Conclusion of the Agreement
2.1 The Parties hereby acknowledge that this Agreement shall be concluded by implicit conduct of the Parties without signing the Agreement,

2 The Setup Wizard starts. Touch **Next** to continue.



Please take a moment to initially set up your new device to your preferences. Later on you can run this configuration wizard, or change these (and some more) settings under the More / Settings menu.

3 Select the language and narrator you want to use for voice guidance messages. Touch **Next** to continue. You can change this at any time from Sound and Warnings settings. (See page 144)



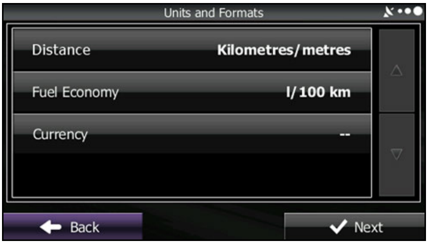
English (AU) — Natural Voice
male Brandon v171711 — Street names not announced

English (AU) — TTS Voice
female Karen (TTS v5) v171711 — Street names announced

English (AU) — Natural Voice
female Jennifer v171711 — Street names not announced

- When the TTS Voice mode is selected, the voice control navigation and street guidance can be used. These functions cannot be used when the Natural Voice mode is selected.

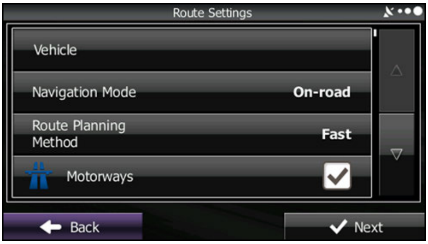
4 Change the unit settings if necessary. Touch **Next** to continue. You can change this at any time from Units and Formats. (See page 151)



Distance: Kilometres/metres
Fuel Economy: l/100 km
Currency: --

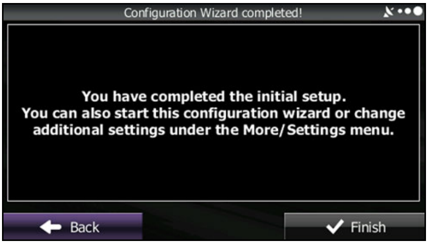
Before Using the Navigation System

5 Change the initial route plan settings if necessary. Touch Next to continue. You can change this at any time from Route Settings. (See page 148)



Navigation Mode On-road
Route Planning Method Fast
Motorways ☑

6 This completes the initial setup. Touch Finish to continue. After setting up, you can run the Setup Wizard at any time from the Settings menu. (See page 143)



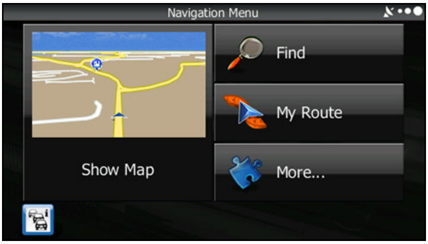
You have completed the initial setup.
You can also start this configuration wizard or change additional settings under the More/Settings menu.

ATTENTION

After the initial setup, the navigation menu is displayed and you can start using the software.

Navigation Menu

When you touch Menu on the navigation screen or the multi screen, the navigation menu (main menu) appears. You can access all of the software's functions from this menu.



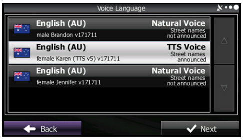
The following options are available.

- Touch Find, and then select which method to use to reach your destination by entering the address, selecting a favourite spot, selecting a position on the map, or selecting from the destination list. You can also select recent destinations from Smart History, or enter coordinates into the system.
- When you touch My Route, each point on the route, or a path log on the map is displayed for the entire journey. You can also perform various route related functions such as editing or cancelling the route, setting the route departure point, selecting a different route, avoiding a part of the route, performing a navigation simulation, or adding an entry to the destination list.
- When you touch More, you can set the navigation software operating method, start the tutorial, show a demo route simulation, or start various other auxiliary applications.
- Touch Show Map to start navigation on the map. The button itself shows the current position, recommended route, and reduces the surrounding area to display on the map being used. Touch the button to display the previous screen mode (Navigation screen or Multi screen).
- Touch to open the Traffic Summary screen.

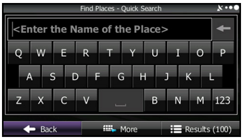
On-screen Buttons and Other Switches

To use this software, you normally have to touch the buttons on the touch screen.

You only need to confirm selections and changes when the application needs to be restarted, when an important setting is changed, or when a section of the user's data/settings may be lost. Other than that, when using the button selected content is saved immediately without requiring confirmation, and the new setting is applied.

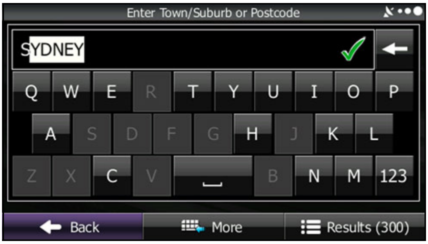
Type	Example	Explanation	Use
Button	Find	Touch to start a function, open a new screen, and save settings.	Touch once.
Button with numbers displayed	Viewpoint Normal	Current fields or settings are displayed on the button. Touch this button to change the value. After changing, the value you enter is displayed on the button.	Touch once.
Icon	Distance 926 km	Displays status information.	Some icons can also be used as buttons. Touch once.
List	 Voice Language English (AU) Natural Voice male Brandon v171711 Street names not announced English (AU) TTS Voice female Karen (TTS v5) v171711 Street names announced English (AU) Natural Voice female Jennifer v171711 Street names not announced Back Next	If there are multiple options available, the selection items are displayed as a list.	To view the list, touch and slide your finger up and down. Because the scrolling speed changes depending on the speed of the slide, you can reach the end of the list, with just a small, quick flick of your finger. Also, when using the △/▽ buttons, touch the number you want to move through the pages.
Radio button	●/○	When there are only a few selection items, you can use the radio buttons instead of a list. Where only one value can be selected.	Touch this button to select the new value.
Check Box	☑/☐	If there are only two choices available, you can enable or disable the function by entering a check mark.	Touch to turn the switch On or Off.

Before Using the Navigation System

Type	Example	Explanation	Use
Virtual keyboard		Keyboard for entering text and numbers.	Each key represents a button on the touch screen.

■ Using the keyboard

This navigation system has been designed to keep the entry of text and numbers to a minimum. However, you can enter text and numbers when necessary by using the full-screen keyboard. You can select the keyboard layout from English, numbers and so on.



Operation	Explanation
Switch keyboard layouts, for example from English to numbers	Touch **More** and select another keyboard layout from the list.
Correcting entered values using the keyboard	Touch ← to delete characters entered by mistake. Touch & hold (touch the screen and do not remove your finger) to delete a part or all of the entered text.
Enter a space between first names and family names, or between address display names	Touch ⎵ at the bottom centre of the screen.
Entering numbers and symbols	Touch 123 to switch to the numbers keyboard. Touch QWE to switch to the symbols keyboard.
Confirm keyboard input (confirm the displayed search results)	Touch ✓.
Set keyboard input (confirm search results list)	Touch **Results**.
Set keyboard input (save entry)	Touch **Done**.
Cancel keyboard input (return to main screen)	Touch **Back**.

ATTENTION

Even if a candidate term is displayed when the keyboard screen appears, you can touch the keyboard and input a new term directly.

■ Screen operations other than single touch

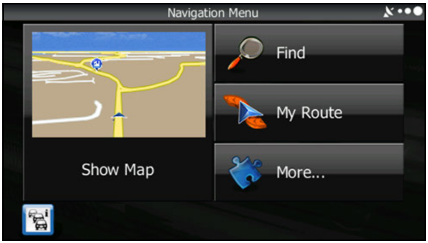
Normally, you only need to touch the screen once (single touch) to perform an operation. However, you can make use of convenient functions by combining different touch operations on the touch screen. The following touch combinations are available.

Operation	How to
Screen Touch & Hold	You can call additional functions by performing touch & hold (touch the screen and do not remove your finger) with the next button. ● On the List and Menu screens, touch & hold Back to display the Map screen. ● On the Map screen, touch & hold any of the ⬅, ➡, ⬆, ⬇, ➕, or ➖ buttons to rotate, tilt, enlarge, or reduce the map. ● On the keyboard screen, touch & hold ⬅ to quickly delete multiple characters. ● On long lists, touch & hold △ or ▽ to scroll through the page.
Gesturing (drag & drop)	You may need to drag & drop in the following cases. ● Scrolling a list: To view the list, touch and slide your finger up and down. Because the scrolling speed changes depending on the speed of the slide, you can reach the end of the list, with just a small, quick flick of your finger. ● Moving the map in map display mode: Touch the map and move it in the direction you want.

Map Screen

■ Navigating on the Map

In the navigation menu startup screen, the currently active map is reduced and displayed in Show Map.



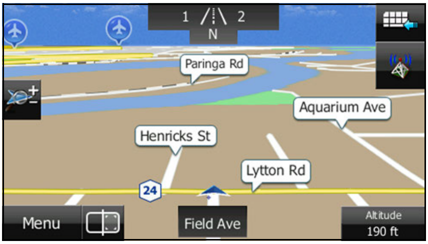
To enlarge the map, touch Show Map to open the Map screen.

This map shows the current position (shown as the vehicle marked as a blue arrow), recommended routes (orange lines), and the immediate surrounding area.

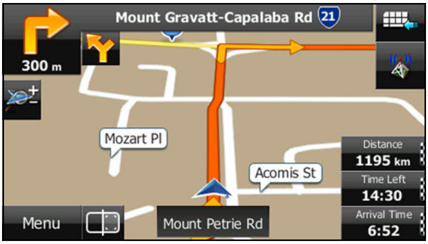
When GPS positioning is not active, the vehicle marker is clear. The latest confirmed position is displayed.

Before Using the Navigation System

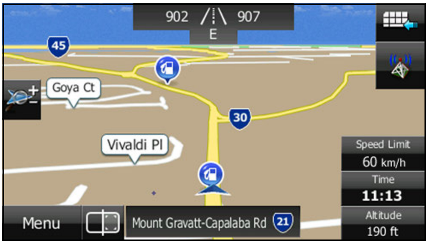
Coloured spots are displayed on the circle around the satellite icon in the top left corner. The more spots there are on the circle, the higher the accuracy of the GPS positioning.

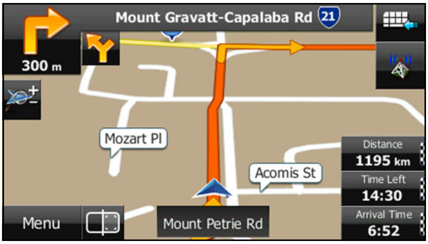


When GPS positioning is active, the vehicle marker is displayed in full-colour, and the current position is shown.



Buttons and data fields are displayed on the screen, and you can perform navigation. During navigation, route information is displayed on the screen.





The data fields display differs when no destination is set during navigation (no orange line is displayed). When performing navigation, the number of the data fields displayed on the screen is three. Up to three data fields can be displayed when no destination is set (no orange line is displayed).

Default data fields when no destination is set while driving (you can change the values in fields by using touch & hold):

Field	Explanation
Speed	Shows your current speed given by the GPS receiver.
Speed Limit	When information is available on the map, displays the speed limit for the current road.
Time	Displays the current time corrected using the time zone offset. Accurate time is acquired from the GPS satellite, while time zone information is acquired from the map. You can also make manual settings in Units and Formats. (Only for the Menu screen, the current time is shown in the upper left corner of the screen.)
Altitude	Shows the altitude of the road currently being driven and measured by the GPS receiver. (There may be a maximum ±50 m of differences depending on the reception status of GPS satellites.)

Default data fields when performing navigation (you can change the values in fields by using touch & hold):

Field	Explanation
Speed	Shows your current speed given by the GPS receiver.
Speed Limit	When information is available on the map, displays the speed limit for the current road.
Time	Displays the current time corrected using the time zone offset. Accurate time is acquired from the GPS satellite, while time zone information is acquired from the map. You can also make manual settings in Units and Formats. (Only for the Menu screen, the current time is shown in the upper left corner of the screen.)
Altitude	Shows the altitude of the road currently being driven and measured by the GPS receiver. (There may be a maximum ±50 m of differences depending on the reception status of GPS satellites.)
Distance*	Displays the distance on the route to the final destination.
Time Left	Displays the time left until arrival at the final destination based on the information available for the remainder of the journey. This is calculated according to prior traffic data or traffic patterns whenever available. If a TMC receiver is connected to the main unit and is receiving data, any traffic jams along the route are also factored into calculations. However, the accuracy of these calculations varies greatly.
Arrival Time*	Displays the estimated arrival time at the final destination based on the information available for the remainder of the journey. This is calculated according to prior traffic data or traffic patterns whenever available. If a TMC receiver is connected to the main unit and is receiving data, any traffic jams along the route are also factored into calculations. However, the accuracy of these calculations varies greatly.

* Time and distance to the destination cannot be displayed when your vehicle is located in the place other than roads and motorways. After the vehicle returns to a road or motorway, time and distance are displayed.

Before Using the Navigation System

■ Position marker

Vehicle Marker and Lock-on-Road

If GPS positioning is available, the current position is shown using the vehicle marker.

- When any vehicle is selected, the vehicle marker may not display an accurate GPS position and direction of travel. If there is a road nearby, the GPS positioning error is corrected based on the shortest distance to the road to, and the direction of the icon is adjusted to match the direction of the road.

Selected map location (cursor)

Use one of the following methods to mark a map location.

- Touch the map during navigation.
- Touch the map when the destination you want is displayed in the search results.
- Touch the map in “Map Search”. (See page 124)

After selecting a map location, a cursor is displayed at the point selected on the map. The cursor is displayed as a red point ( ) and can be checked at all zoom levels.

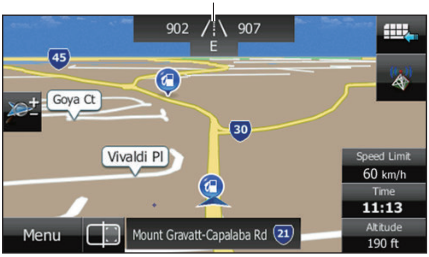
You can use the cursor's position as the route's destination, search for locations around the cursor, and save the position in the destination list.

■ Map objects

Direction display

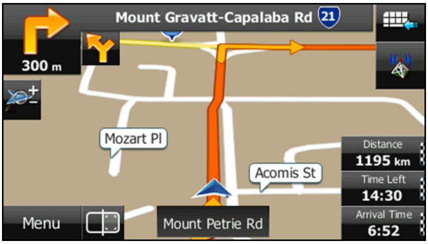
If no destination is set while driving, the direction is shown on the screen in heads-up display.

Each letter indicates a direction: N (North), NE (North East), E (East), SE (South East), S (South), SW (South West), W (West), and NW (North West). However, this is not displayed while driving on an motorway.



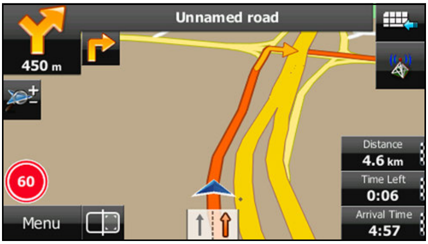
Advanced confirmation of route changes and next road

During navigation, information on the next route event (the next change in the route), as well as the next city or town, is displayed at the top of the Map screen.



The next change in the route is displayed in the field at the top left corner of the screen. Displays the type of route event (right or left turn, roundabout, motorway interchange, and so on) and the distance from the current position.

When the next route change approaches, the type of route change is displayed as a small icon next to the main icon. Only the next route change is displayed.

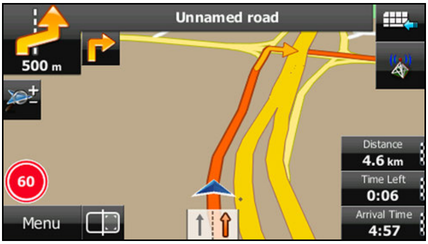


Most of these icons can be understood intuitively. The following table shows the most frequently displayed route events. The symbol design is the same in each field.

Icon	Explanation
↰	Turn left
↱	Turn right
↶	U-turn
⑂	Keep right at the fork in the road.
↰	Turn left & sharp curve.
↱	Turn right & sharp curve.
↖	Stay in the left lane.
↗	Stay in the right lane.
↑	Go straight ahead at the intersection.
⊤	Turn left at the T junction.
③	Go left at the roundabout. Third exit (next change in direction).
⟲	Join the roundabout (the route change after the next change).
⇈	Join the motorway.
⇱	Leave the motorway.
⛴	Board the ferry.
⛴	Disembark from the ferry.
⚑	You are half way to your destination.
🏁	You have arrived at your destination.

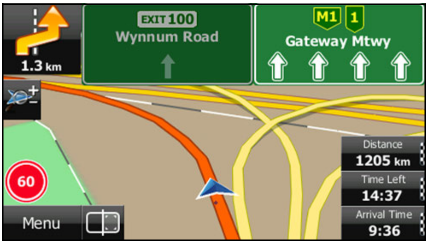
Lane information & signs

When using route guidance on roads with two or more lanes, it is important that you drive in the correct lane. When lane information is available on the Map, the lane and direction are indicated below the map with small arrows. The lane that you should drive in is highlighted.



When detailed information is available, the arrows are removed and signs are displayed. Signs are displayed at the top of the map. The colour and design of the signs is the same as signs actually found at the side of the road or overhead signs. These signs show the district and the route number for the lane direction.

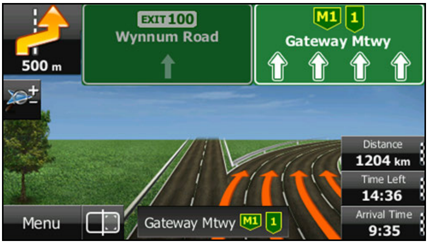
All signs are displayed in the same manner even when driving without using the navigation system. During navigation, only the sign that shows the lane in which you should drive is highlighted, the other signs are toned down.



Before Using the Navigation System

Junction display

When approaching a motorway exit or a complicated intersection, the map switches to a 3D display if the necessary information can be displayed. An arrow indicates the lane in which you should drive. Signs are also displayed if the information is available.



Types of 3D objects

The following 3D object types are supported.

Type	Explanation
3D Undulations	On a 2D map, the changes in topography or undulations in the ground are displayed; and when using 3D this data is used to create a route map image during navigation. On a 3D map, hills and mountains are displayed in the background, whilst on a 2D map they are expressed using changes in colour and shading.
Elevated Roads	Complicated intersections and three dimensional road objects (such as overpasses or overhead bridges) are displayed in 3D.
3D Landmark	3D landmarks are realistic 3D representations of the most important landmarks in major cities, and 3D city maps contain block representations of buildings in the downtown areas of major cities. 3D landmarks are unique drawings representing the true look of buildings, while in 3D city maps, buildings are generated by the software from a database containing their shapes and sizes. Besides making the map view more attractive, these 3D features also help the user navigate in the complicated street network of large cities by providing easily recognisable reference points to the eye.

Items displayed during route navigation

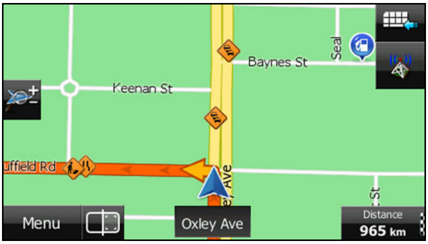
The route is displayed using the following methods.

Symbol	Name	Explanation
▲	Current GPS position and departure point	Current location of the user displayed on the map ● When you select a vehicle in route search, and if there is a road nearby, the position of the icon is corrected based on the nearest road. When the GPS position is available, the route usually starts from the current position. If there is no GPS position available, the last confirmed available GPS position is used as the departure point.
⚑	Waypoint (midway point)	The midway point target point before arrival at the target destination.
🏁	Destination (final point)	The final destination on the route.
	Route colour	Displays using colours that are easy to understand and that stand out in daytime or nighttime colour mode.
	Roads excluded from navigation	Select whether or not to exclude a road from navigation. (See page 148)However, if it is impossible to avoid a road that has been excluded, that road is displayed in a different colour from the original route.
	Roads affected by traffic conditions	Any section of the road may be affected depending on the received traffic conditions. Roads affected by traffic conditions are displayed in a different colour, and a small icon representing the type of traffic condition is displayed at the side of the route.

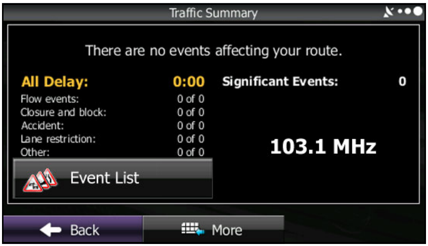
Before Using the Navigation System

Traffic condition

Road sections affected by traffic conditions are displayed in a different colour on the map, and a small icon representing the type of traffic condition is displayed above the road. You can change the items displayed by setting the Traffic. (See page 147)



To check traffic conditions outside the display, touch . The Traffic Summary screen is displayed.

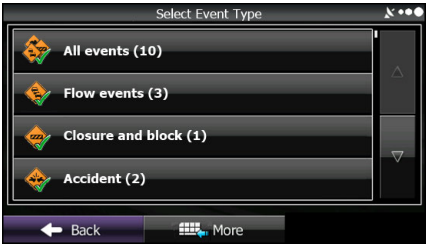

Traffic Summary

There are no events affecting your route.

All Delay:	0:00	**Significant Events:**	0
Flow events:	0 of 0		
Closure and block:	0 of 0		
Accident:	0 of 0		
Lane restriction:	0 of 0		
Other:	0 of 0		

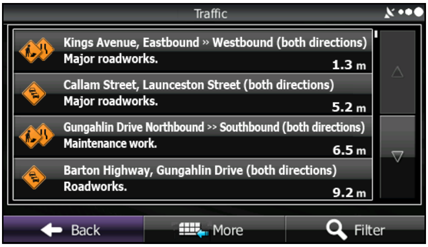
103.1 MHz

Touch Event List to open the following Event List screen.


Select Event Type

All events (10)
Flow events (3)
Closure and block (1)
Accident (2)

On this screen, you can select one entry from the list to view list of the traffic conditions for that section of the road.


Traffic

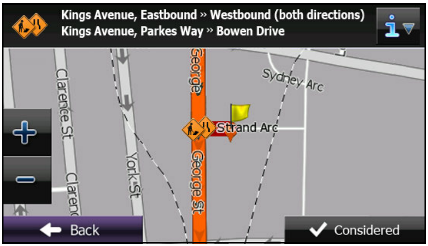
Kings Avenue, Eastbound » Westbound (both directions)
Major roadworks. 1.3 m

Callam Street, Launceston Street (both directions)
Major roadworks. 5.2 m

Gunghalin Drive Northbound >> Southbound (both directions)
Maintenance work. 6.5 m

Barton Highway, Gungahlin Drive (both directions)
Roadworks. 9.2 m

On this screen, you can select one entry from the list to view full details of the traffic conditions for that section of the road.


Kings Avenue, Eastbound » Westbound (both directions)
Kings Avenue, Parkes Way » Bowen Drive
Clarence St
George
Sydney Arc
Strand Arc
York St
George St
Clarenc
Back
Considered

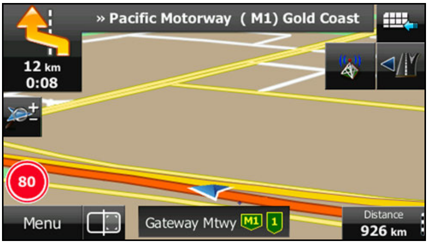
Touch i to open another screen displaying information on the selected map position.

Motorway Services

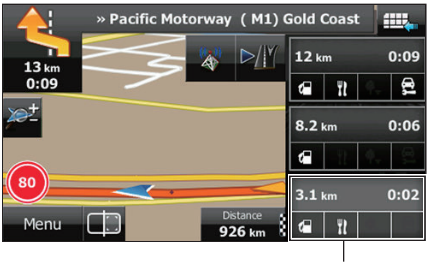
When driving on the motorway, this displays information on the next three motorway service areas. By default, petrol stations, restaurants, rest rooms, and mechanics are displayed. You can change the items displayed by setting the Visual Guidance. (See page 150)

When information is available for the motorway service area, is displayed.

Touch to display the motorway service area information (distance, time needed, and services provided).

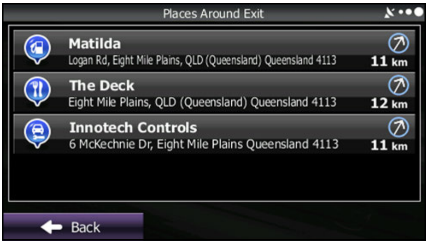


When you touch motorway service information, a list is displayed.



Motorway service area information

Select one from the list to display more details. You can check it on the map and set it as a waypoint or as a destination.



Matilda Logan Rd, Eight Mile Plains, QLD (Queensland) Queensland 4113 11 km

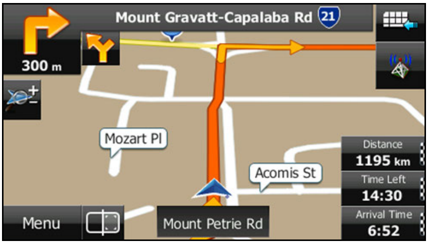
The Deck Eight Mile Plains, QLD (Queensland) Queensland 4113 12 km

Innotech Controls 6 McKechnie Dr, Eight Mile Plains Queensland 4113 11 km

Smart zoom display

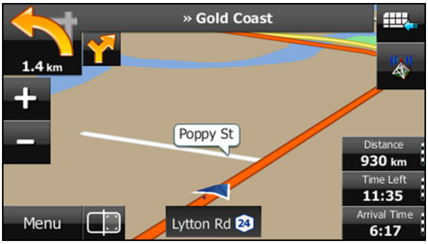
When the navigation screen is set to auto zoom, this function is turned on.

Touch to display the control button.

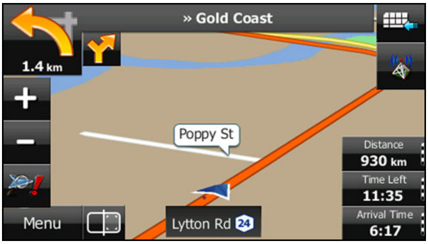


Touch + to enlarge the display, and touch − to reduce the display. When expanding or reducing, the smart zoom function is switched off, and is displayed. Touch to turn on the smart zoom function.

If no operations are made for about 6 seconds, the previous screen is displayed.



- Smart Zoom On

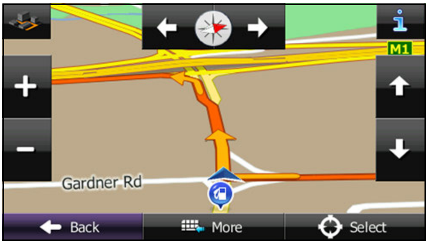


- Smart Zoom Off

Before Using the Navigation System

Map operations

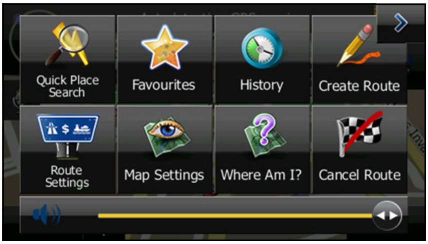
You can touch a position on the map, and then check that position during navigation. The map's current position tracking function stops (the car marker (a blue arrow by default) is not fixed in position on the screen), and the control buttons are displayed allowing you to change the map display.



Operation	Button	Explanation
Using drag & drop to move the map	No buttons	You can move the map in any direction you want by touching and holding the map, and moving your finger in the direction you want to move the map.
Zoom in/Zoom out	+/−	Change the area of the map displayed on the screen. Road names and other characters are always displayed in the correct direction and at the same font size, and you only need to check necessary roads and icons. In 3D mode, the map cannot be reduced endlessly. The map changes to 2D mode if you zoom out beyond the defined amount. The display changes slowly if you tap the button, or changes in a smooth, continuous motion if you touch & hold the button.
Tilt up/Tilt down	↑/↓	In 3D mode, you can change the vertical display angle of the map. The display changes slowly if you tap the button, or changes in a smooth, continuous motion if you touch & hold the button.
Rotate left/ Rotate right	←/→	Changes the horizontal display angle of the map. The display changes slowly if you tap the button, or changes in a smooth, continuous motion if you touch & hold the button.
2D or 3D display	▨/▨	Touch this button to switch the map display mode between a 3D bird's-eye view and a flat 2D view.
Compass in 2D or 3D map display mode	▲/◤	The compass direction indicates North. Touch this button to change to a North Up display, and then touch it again to return to the direction previously displayed.
Point information	i	Touch this button to open another screen displaying information on the selected map position (cursor).
Return to normal navigation	Back	Touch this button to return the map to the current GPS position. Auto map rotation is also enabled. The map operation buttons are hidden, and navigation restarts.
Additional functions	More	Touch this button to display the additional functions list. For example, saving the cursor to the destination list, and searching the area around the cursor.
Selecting a destination	Select	Touch this button to select the cursor as a new destination. The route is researched automatically.

■ Quick menu

Frequently used buttons and functions used during navigation are all displayed on the Quick menu. Touch ▦ to open directly from the Map screen.



The menu closes if no operations are performed for a few seconds, or if you touch ›.

Touch another button to open a new screen displaying the option you selected.

You can assign functions to shortcuts from the Menu screen. See the following items for more details.

The following explains the buttons and functions displayed on this screen.

Button	Explanation	Primary Location
›	Touch this button to return to the Map screen.	N/A
Guidance volume slider	Adjusts the guidance volume. This adjusts all volumes in the guidance volume adjustment application.	More / Settings / Sound and Warnings / Volume / Master slider (See page 144)
Quick Place Search	Touch this button to search around a point on the route, or your current position (when a route search has not been performed).	Find / Find Places / Quick Search (See page 113)
Favourites	Touch this button to select an item from the destination list.	Find / Favourite (See page 125)
History	Touch this button to select previously set destinations from the history list.	Find / History (See page 126)
Create Route / Edit Route	Touch this button to change the route.	My Route / Create (Edit) Route (See page 131)
Route Settings	Touch this button to change route related settings.	More / Settings / Route Settings (See page 148)
Map Settings	Touch this button to change map related settings.	More / Settings / Map Settings (See page 149)
Where Am I?	Touch this button to display a special screen with a button that searches for information on your current position and determines the nearest emergency assistance or road-side assistance. See the following section for more details.	N/A

Before Using the Navigation System

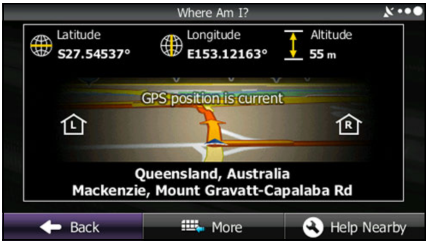
Button	Explanation	Primary Location
Cancel Route	Touch this button to clear the route and cancel navigation. This button is available when only one destination is set.	My Route / Cancel Route (See page 133)
Remove Next Waypoint	Touch this button to remove the next waypoint from the route. When multiple destinations are set, the previous waypoint is displayed. This button is available when only two or more destinations are set.	N/A

In Settings, you can change the Quick menu buttons to use other functions. (See page 146) The following functions are available.

Button	Explanation	Primary Location
Overview	Reduces the scale of the 2D map to display the entire route.	My Route / Overview (See page 129)
Visual Guidance	Opens the Visual Guidance settings screen.	More / Settings / Visual Guidance (See page 150)
Traffic	Opens the Traffic Summary screen.	Touch the navigation menu or the Map screen's road icons.
Avoid	Avoids part of the recommended route.	My Route / Avoidances
Trip Monitor	Opens the trip monitor screen from which you can manage your saved trip logs and path logs.	More / Trip Monitor (See page 142)
Itinerary	Opens a list of changes in the route (distances).	Touch the top of the Map screen during navigation.
Save Route	The route being navigated is saved to be used later.	My Route / More / Save Route
Load Route	Changes to a saved, previously navigated route.	My Route / More / Load Route
Find Places	Searches for your favourite spots using a variety of methods.	Find / Find Places (See page 113)
Simulate Navigation	The Map screen opens and a simulation of the route being navigated starts.	My Route / More / Simulate Navigation (See page 136)
GPS Info	Opens the GPS information screen showing satellite positions and signal strength.	Touch the top of the Map screen if there is no GPS reception.

■ Check current position (Where Am I?)

You can open this function from the Quick menu. The button on this screen searches for information on the current position (if there is no GPS reception it uses the last confirmed position) and recommended spots in the area, and displays them on the screen.



Where Am I?

Latitude S27.54537°

Longitude E153.12163°

Altitude 55 m

GPS position is current

Queensland, Australia

Mackenzie, Mount Gravatt-Capalaba Rd

This screen provides the following information.

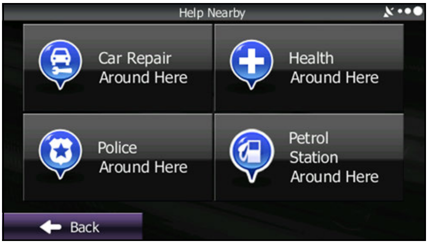
- 🌐, 🌐:
  Latitude/Longitude (Current positional coordinates use the WGS84 land survey system)
- ↕:
  Altitude (Advanced information acquired by the GPS receiver - may not be accurate)
- L:
  Address of current position on left
- R:
  Address of current position on right
- The latest location information is displayed in the centre of the screen, or the time after the latest information was acquired is displayed.
- A detailed address (when available) for the current position is displayed at the bottom of the screen.

The following functions are also available on this screen.

Touch More to save the current position in the destination list.

You can also search for nearby help around the current position. Touch Help Nearby to open a new screen and perform a quick search.

Before Using the Navigation System



You can search for the following services around your current position or the latest confirmed position.

- **Car Repair Around Here**:
  Vehicle repairs / Road-side assistance services
- **Health Around Here**:
  Hospitals / Emergency services
- **Police Around Here**:
  Police stations
- **Petrol Station Around Here**:
  Petrol stations

Touch a button and then select an item from the list to display the route navigation to the location.

Navigation

You can select one of the following methods to perform navigation.

- To start navigation right away, select a destination and set the route for standard navigation.
- You can search for a route regardless of the current GPS position (or if there is no GPS reception). To do this, turn off the GPS receiver, touch the flag icon for the current position, and set a new departure point using My Route / Edit Route.

You can create a route plan even if you have multiple destinations. Select the destination. When selecting the next destination, if it is added to the route currently being created, a multiple destination route is created. There is no limit on the number of destinations you can set.

Select route destination

You can use any of the following methods to select the destination.

- Enter all or part of the address. For example: Instead of entering the address, you can just enter the name of the street or intersection.
- Enter the address by using the Postcode. (See page 110) This allows you to search for the street name quickly, even if you have not selected a district name.
- Use one of your pre-entered favourite spots as the destination. (See page 113)
- Use the Find on Map function to select a destination. (See page 124)
- Use the list of previously saved destinations. (See page 125)
- You can select a destination from the history of previous destinations. (See pages 126, 127)

■ Enter all or part of the address

Entering part of the address is the quickest way to select the destination for your route.

You can specify the address by entering the following items on the same screen.

- An accurate address, such as the street number
- City/town centre
- Intersection
- Street name
- Enter any of the items above, and then search using the Postcode (See page 110)

Navigation

Entering an address

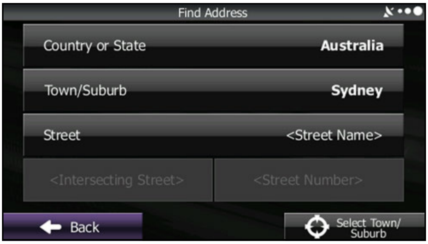
Follow the steps below to enter an address as the destination.

1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 On the navigation menu, touch **Find**.

3 Touch **Find Address**.

4 By default, the country and district for your current position are displayed. If necessary, touch **Country or State** and then enter the first few letters of the country name. You can then select the country from the list displayed.


Find Address

Country or State: Australia

Town/Suburb: Sydney

Street: <Street Name>

<Intersecting Street>

<Street Number>

5 If necessary, select the city/town again.

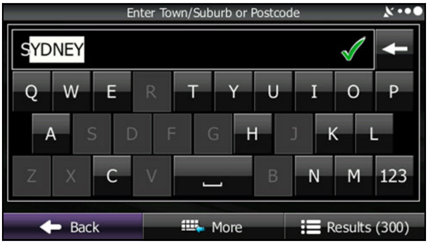
① Touch **Town/suburb**.

② Use the keyboard to enter the start of the city/town.

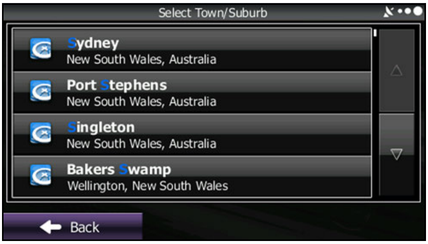
- For the keyboard, see “Using the keyboard” on page 86.

③ Follow the steps below to find the city/town you entered.

- The most likely city/town names are displayed in the entry field. Touch ✓ to use the name displayed.
- If the name you want is not automatically entered, enter a few more letters from the name until it is displayed in the list (touch **Results** to open the results list before the search results are automatically displayed). Select the city/town from the list.


Enter Town/Suburb or Postcode

SYDNEY


Select Town/Suburb

Sydney
New South Wales, Australia

Port Stephens
New South Wales, Australia

Singleton
New South Wales, Australia

Bakers Swamp
Wellington, New South Wales

6 Enter the street name as follows.

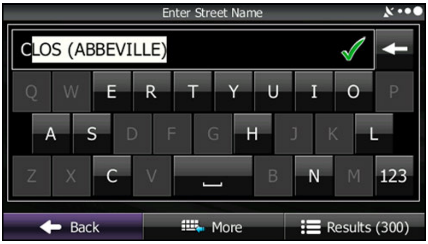
① Touch Street.

② Use the keyboard to enter the start of the street name.

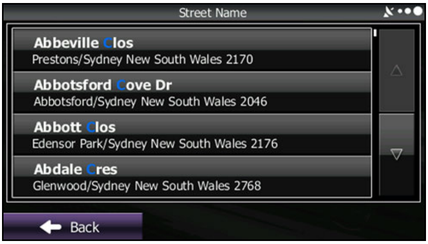
- For the keyboard, see "Using the keyboard" on page 86.

③ Find the street name to enter as follows.

- The most likely street name is displayed in the entry field. Touch ✓ to use the name displayed.
- If the name you want is not automatically entered, enter a few more letters from the name until it is displayed in the list (touch Results to open the results list before the search results are automatically displayed). Select the street from the list.



CLOS (ABBEVILLE)



Abbeville Clos
Prestons/Sydney New South Wales 2170
Abbotsford Cove Dr
Abbotsford/Sydney New South Wales 2046
Abbott Clos
Edensor Park/Sydney New South Wales 2176
Abdale Cres
Glenwood/Sydney New South Wales 2768

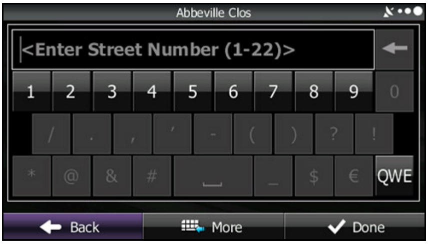
7 Enter the street number as follows.

① Touch Street Number.

② Enter the street number with the keyboard.(Enter the number(s), and then touch QWE.)

- For the keyboard, see "Using the keyboard" on page 86.

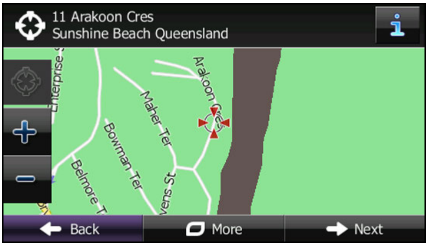
③ Touch Done to finish entering the address.(If the street number is not found, the centre of the street is selected as the destination.)



<Enter Street Number (1-22)>

8

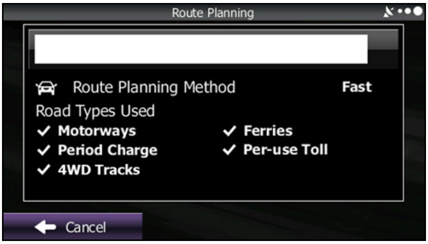
The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor (✛) is displayed at the new position. Touch Next to set the destination, or touch Back to select another destination.



11 Arakoon Cres
Sunshine Beach Queensland

Navigation

9 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the “Go!” button, guidance begins automatically after 10 seconds even if you do not touch the button.)

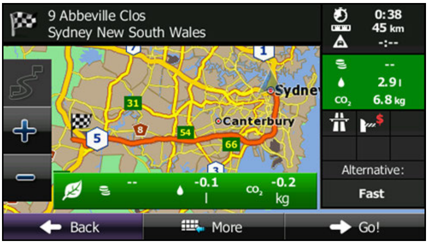


Route Planning

Route Planning Method: Fast

Road Types Used

- ✓ Motorways
- ✓ Period Charge
- ✓ 4WD Tracks
- ✓ Ferries
- ✓ Per-use Toll



ATTENTION

If the destination will be used frequently, you can save it to the destination list as follows before touching Next. Touch More, and then touch Add to Favourites. Enter a name for the destination you want to save, and then touch Done. You are automatically returned to the map with the destination set. Start driving following the navigation.

Entering the centre of the street as the destination

If you do not know the street number, you can navigate by setting the centre of the street as the destination.

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 On the navigation menu, touch Find.

3 Touch Find Address.

4 If necessary, change the country and district as mentioned above. (See page 102)

5 Enter the street name as follows.

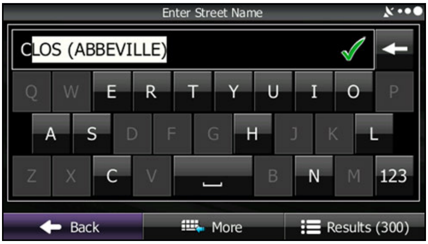
① Touch **Street**.

② Use the keyboard to enter the start of the street name.

- For the keyboard, see "Using the keyboard" on page 86.

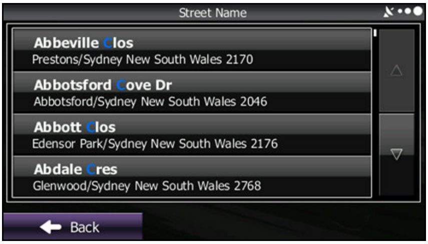
③ Find the street name to enter as follows.

- The most likely street name is displayed in the entry field. Touch ✓ to use the name displayed.
- If the name you want is not automatically entered, enter a few more letters from the name until it is displayed in the list (touch **Results** to open the results list before the search results are automatically displayed). Select the street from the list.



Enter Street Name

CLOS (ABBEVILLE)



Street Name

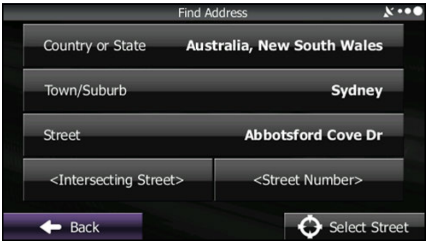
Abbeville Clos
Prestons/Sydney New South Wales 2170

Abbotsford Cove Dr
Abbotsford/Sydney New South Wales 2046

Abbott Clos
Edensor Park/Sydney New South Wales 2176

Abdale Cres
Glenwood/Sydney New South Wales 2768

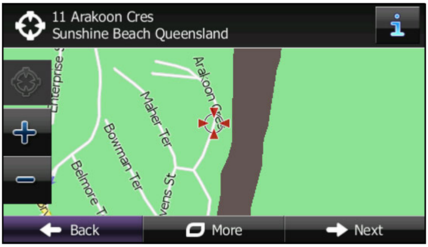
6 Touch **Select Street** without entering an address. The centre of the street is selected as the destination.



Find Address

Country or State	**Australia, New South Wales**
Town/Suburb	**Sydney**
Street	**Abbotsford Cove Dr**

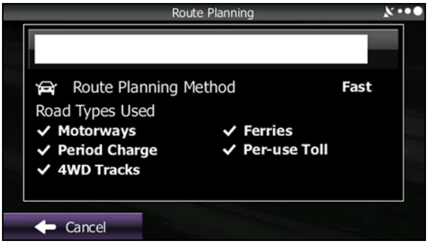
7 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.



11 Arakoon Cres
Sunshine Beach Queensland

Navigation

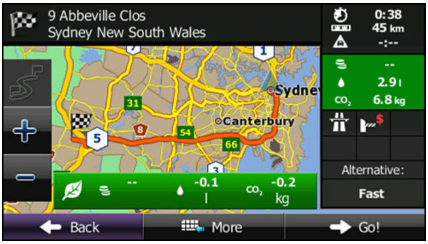
8 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method Fast

Road Types Used

✓ Motorways
✓ Period Charge
✓ 4WD Tracks
✓ Ferries
✓ Per-use Toll



9 Abbeville Clos
Sydney New South Wales

0:38
45 km
-:--
--
2.9 l
6.8 kg
Alternative:
Fast
-- -0.1 l -0.2 kg

Selecting an intersection as the destination

Follow the steps below to enter an intersection as the destination.

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 On the navigation menu, touch Find.

3 Touch Find Address.

4 If necessary, change the country and district as mentioned above. (See page 102)

5 Enter the street name as follows.

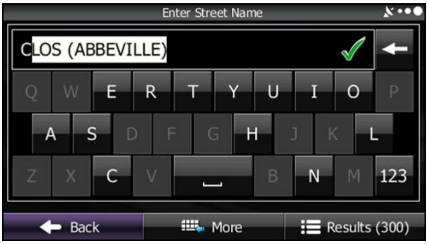
① Touch Street.

② Use the keyboard to enter the start of the street name.

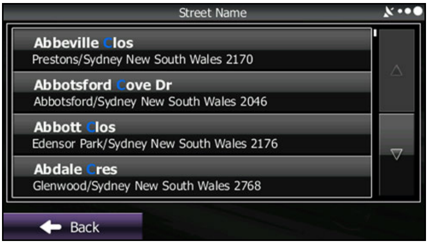
- For the keyboard, see “Using the keyboard” on page 86.

③ Find the street name to enter as follows.

- The most likely street name is displayed in the entry field. Touch ✓ to use the name displayed.
- If the name you want is not automatically entered, enter a few more letters from the name until it is displayed in the list (touch Results to open the results list before the search results are automatically displayed). Select the street from the list.



CLOS (ABBEVILLE)



Abbeville Clos
Prestons/Sydney New South Wales 2170

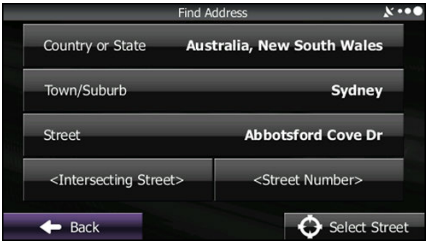
Abbotsford Cove Dr
Abbotsford/Sydney New South Wales 2046

Abbott Clos
Edensor Park/Sydney New South Wales 2176

Abdale Cres
Glenwood/Sydney New South Wales 2768

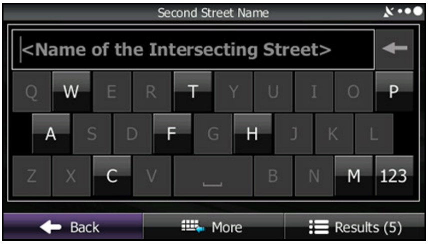
6 Enter the intersection name as follows.

- Touch Intersecting Street.

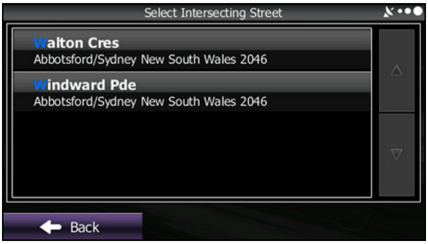


Country or State: Australia, New South Wales
Town/Suburb: Sydney
Street: Abbotsford Cove Dr

- If there are only a few roads at the intersection, the list is displayed immediately.
- If the road is a long way off, the keyboard screen is displayed. Use the keyboard to enter the start of the intersection name. (For the keyboard, see “Using the keyboard” on page 86.) A list is automatically displayed when the entered road name matches and can be displayed on one screen. Select from the list.



<Name of the Intersecting Street>

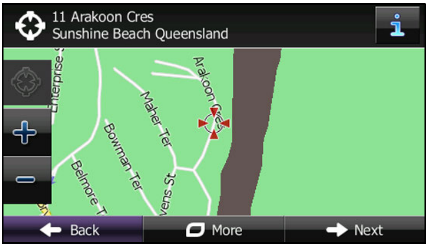


Walton Cres
Abbotsford/Sydney New South Wales 2046

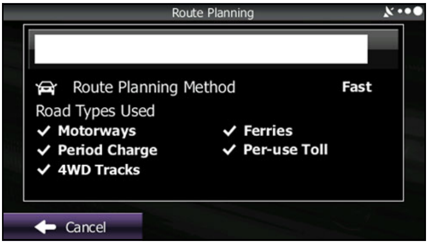
Windward Pde
Abbotsford/Sydney New South Wales 2046

Navigation

7 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.



8 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)

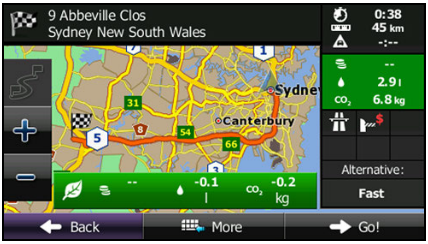


Route Planning

Route Planning Method Fast

Road Types Used

✓ Motorways	✓ Ferries
✓ Period Charge	✓ Per-use Toll
✓ 4WD Tracks	



Selecting a city/town centre as the destination

The centre of the city/town is not the geographical centre of the city/town, but a location set by the cartographer. In towns and villages, this is usually the most important intersection, while in larger cities it is selected from multiple important intersections.

1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 On the navigation menu, touch **Find**.

3 Touch **Find Address**.

4 If necessary, change the country and district as mentioned above. (See page 102)

5 Select the city/town as follows.

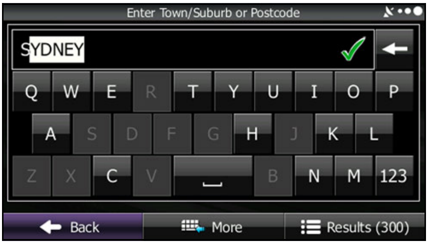
① Touch **Town/suburb**.

② Use the keyboard to enter the start of the city/town.

- For the keyboard, see “Using the keyboard” on page 86.

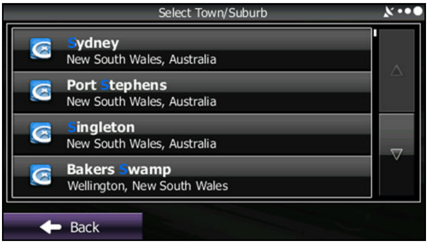
③ Follow the steps below to find the city/town you entered.

- The most likely city/town names are displayed in the entry field. Touch ✓ to use the name displayed.
- If the name you want is not automatically entered, enter a few more letters from the name until it is displayed in the list (touch **Results** to open the results list before the search results are automatically displayed). Select the city/town from the list.



Enter Town/Suburb or Postcode

SYDNEY



Select Town/Suburb

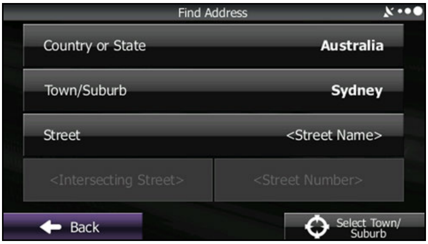
Sydney
New South Wales, Australia

Port Stephens
New South Wales, Australia

Singleton
New South Wales, Australia

Bakers Swamp
Wellington, New South Wales

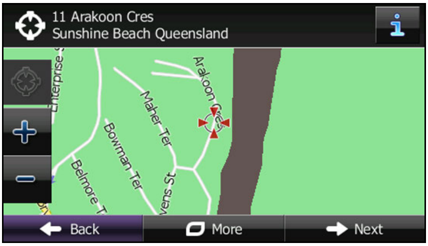
6 Touch **Select Town/suburb** without entering the street name. Set the city/town centre displayed as the route's destination.



Find Address

Country or State: Australia
Town/Suburb: Sydney
Street: <Street Name>
<Intersecting Street>
<Street Number>

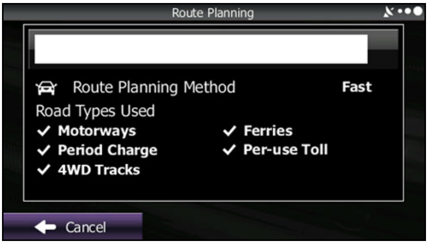
7 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor (⊕) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.



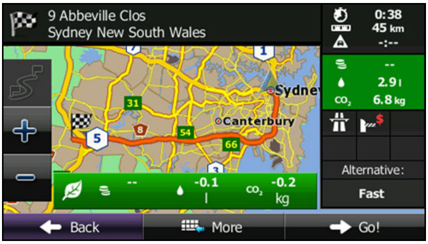
11 Arakoon Cres
Sunshine Beach Queensland

Navigation

8 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method Fast
Road Types Used
✓ Motorways
✓ Period Charge
✓ 4WD Tracks
✓ Ferries
✓ Per-use Toll



Using a Postcode

By entering the Postcode, you can perform the address search mentioned above, even if you do not know the district name. The following is an example of entering an accurate address.

1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 On the navigation menu, touch **Find**.

3 Touch **Find Address**.

4 If necessary, change the country as mentioned above. (See page 102)

5 Enter the city/town by using the Postcode.

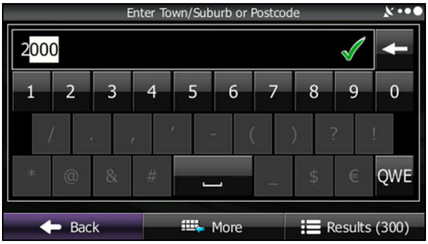
① Touch **Town/suburb**.

② Touch 123 to open the number pad.

③ Start entering the Postcode.

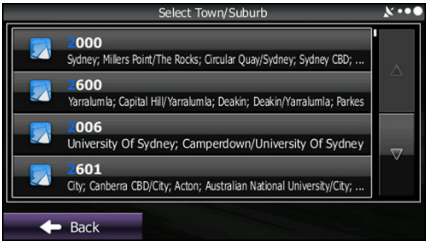
④ Follow the steps below to find the city/town you entered.

- The most likely Postcode is displayed in the entry field. Touch ✓ to use the name displayed.
- If the Postcode you want to enter is not displayed, touch **Results** to open the search results list. Select the Postcode from the list.



Enter Town/Suburb or Postcode

2000



Select Town/Suburb

2000
Sydney; Millers Point/The Rocks; Circular Quay/Sydney; Sydney CBD; ...

2600
Yarralumla; Capital Hill/Yarralumla; Deakin; Deakin/Yarralumla; Parkes

2006
University Of Sydney; Camperdown/University Of Sydney

2601
City; Canberra CBD/City; Acton; Australian National University/City; ...

6 Enter the street name as follows.

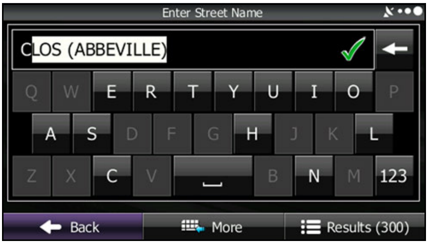
① Touch **Street**.

② Use the keyboard to enter the start of the street name.

- For the keyboard, see “Using the keyboard” on page 86.

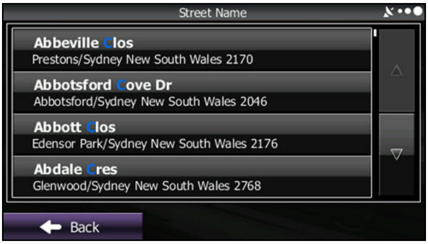
③ Find the street name to enter as follows.

- The most likely street name is displayed in the entry field. Touch ✓ to use the name displayed.
- If the name you want is not automatically entered, enter a few more letters from the name until it is displayed in the list (touch **Results** to open the results list before the search results are automatically displayed). Select the street from the list.



Enter Street Name

CLOS (ABBEVILLE)



Street Name

Abbeville Clos
Prestons/Sydney New South Wales 2170

Abbotsford Cove Dr
Abbotsford/Sydney New South Wales 2046

Abbott Clos
Edensor Park/Sydney New South Wales 2176

Abdale Cres
Glenwood/Sydney New South Wales 2768

Navigation

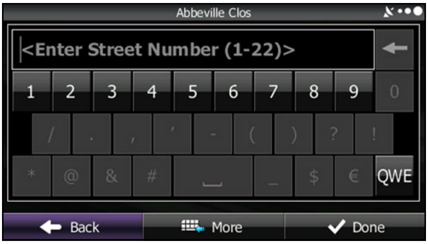
7 Enter the street number as follows.

① Touch Street Number.

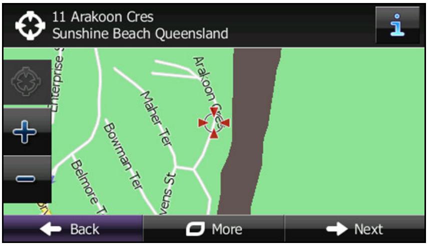
② Enter the street number with the keyboard.(Enter the number(s), and then touch QWE.)

- For the keyboard, see “Using the keyboard” on page 86.

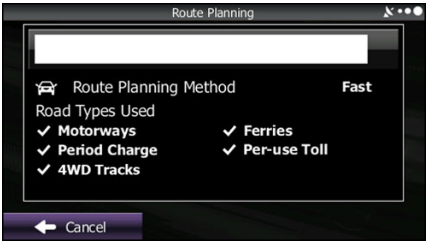
③ Touch Done to finish entering the address.(If the street number is not found, the centre of the street is selected as the destination.)



8 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch Next to set the destination, or touch Back to select another destination.



9 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the “Go!” button, guidance begins automatically after 10 seconds even if you do not touch the button.)



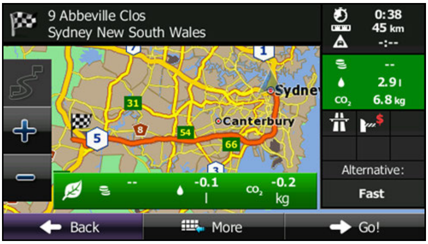
Route Planning Method Fast

Road Types Used

✓ Motorways ✓ Ferries

✓ Period Charge ✓ Per-use Toll

✓ 4WD Tracks



Hints for quick address entry

- When entering a city/town name or a street name:
  - Only characters that can be displayed in the search results are shown on the keyboard. Other characters are greyed out.
  - While entering text, the most likely search result is always displayed in the text entry field. If the search result is correct, touch ✓ to select it.
  - If you touch Results after entering two characters, items that contain those two characters are displayed in the list.
- You can find intersections easily by using the following method.
  - First, when searching for an uncommon road name, you only need to enter the first few letters to acquire the name.
  - When one street name is shorter than the other, the shorter one is searched for first. This shortens the search time for the road with the longer name.
- You can search by road category as well as road name. When the same word is included in names such as the street, road, and main street, by entering the first character for the type of road, you can quickly bring up the search results. For example, if you are searching for “Pine Avenue” and you enter “Pi A”, roads such as “Pine Street” or “Pickwick Road” are not displayed.
- You can also search by using the Postcode. If the Postcode only contains a few characters, you can search more quickly than when entering the city/town name.

■ Selecting the destination from your favourite spots (POI: Point Of Interest)

You can select your destination from the favourite spots that have already been saved in the software.

You can use the same screen to find a spot using the following various methods.

- Using the quick search function, you can quickly search for spots around the name.
- Using the preset search function, you can search for the most popular spots with a few quick touches.
- Search using spot categories.
- Search using spot names.

You can also search for special services from the “Where Am I?” screen.

Navigation

Performing a quick search for favourite spots

Using the quick search function, you can quickly search for spots by name. You can use the following search items.

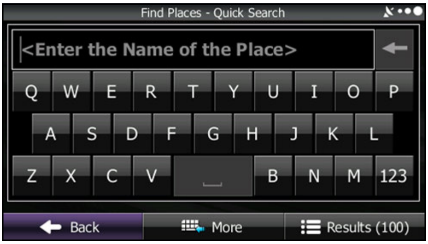
- ● Around the recommended route (when a recommended route is available)
- ● Around the current location (when no destination is set)

1 Follow the steps below to start a quick search.

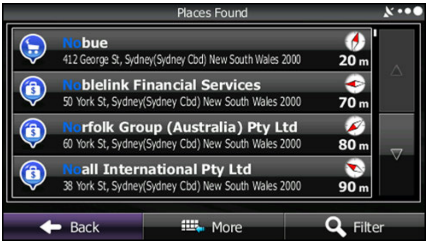
- ● If the Map screen is displayed, touch ⌨ and then touch **Quick Place Search**.
- ● If the navigation menu is displayed, touch **Find**, **Find Places**, and then touch **Quick Search Along Route**.

2 Use the keyboard to enter the start of the spot name.

- ● For the keyboard, see “Using the keyboard” on page 86.

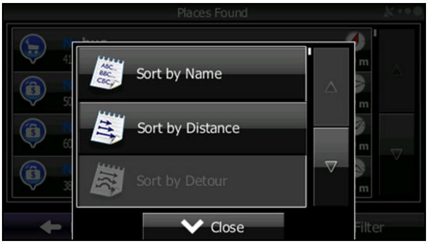


3 Touch **Results** after entering the first few characters to open a list of spot names that include the characters you entered.



Nobue
412 George St, Sydney(Sydney Cbd) New South Wales 2000 20 m
Noblelink Financial Services
50 York St, Sydney(Sydney Cbd) New South Wales 2000 70 m
Norfolk Group (Australia) Pty Ltd
60 York St, Sydney(Sydney Cbd) New South Wales 2000 80 m
Noall International Pty Ltd
38 York St, Sydney(Sydney Cbd) New South Wales 2000 90 m

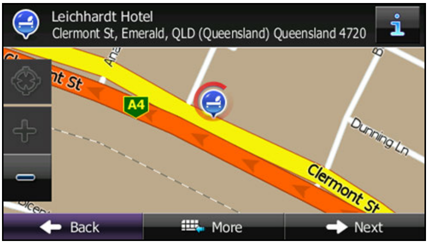
4 (Optional) You can display spots on the list in name order, in order of the distance from the current position or previously confirmed position, or in order of necessary detour distance (during navigation). If you want to change the order in which entries are presented in the list, touch **More** and select the style that you want. Also, you can display all of the spots on the list on the map.



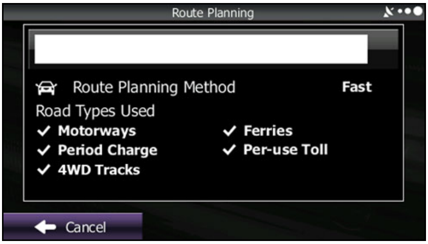
5 Find the item you want on the list, and then touch that item. The map is displayed in full-screen mode with the selected point at the centre. The name and address of the spot are displayed at the top of the screen.

6 (Optional) Touch i to display details about the selected spot. Touch **Back** to return to the map.

7 If necessary, you can touch another point on the map to change the destination. The cursor () is displayed at the new position. Touch Next to set the destination, or touch Back to select another destination.



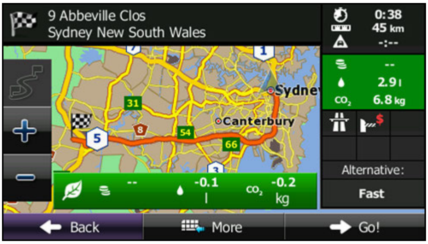
8 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method **Fast**

Road Types Used

- ✓ **Motorways**
- ✓ **Period Charge**
- ✓ **4WD Tracks**
- ✓ **Ferries**
- ✓ **Per-use Toll**



Searching for favourite spots using a preset category

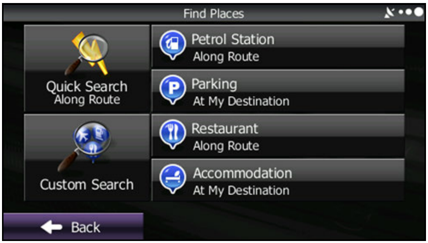
By using the preset search function, you can quickly selected popular spots.

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 On the navigation menu, touch Find.

3 Touch Find Places.

4 Display preset search categories as follows.


Find Places
Quick Search Along Route
Custom Search
Petrol Station Along Route
Parking At My Destination
Restaurant Along Route
Accommodation At My Destination
Back

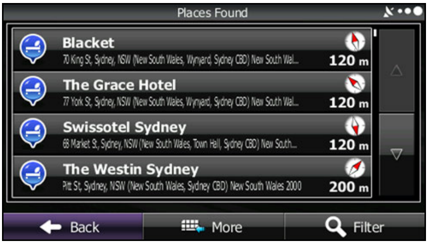
● Petrol Station Along Route:

- Searches for petrol stations along the route during route navigation.
- Searches around the current position if navigation is not being performed (if no destination is set).
- Searches the area around the last confirmed position if the current position is unavailable (no GPS signal).

Navigation

- Parking At My Destination :
  - Searches for parking lots at the destination during route navigation.
  - Searches around the current position if navigation is not being performed (if no destination is set).
  - Searches the area around the last confirmed position if the current position is unavailable (no GPS signal).
- Restaurant Along Route :
  - Searches for restaurants along the route during route navigation.
  - Searches around the current position if navigation is not being performed (if no destination is set).
  - Searches the area around the last confirmed position if the current position is unavailable (no GPS signal).
- Accommodation At My Destination :
  - Searches for accommodation at the destination during route navigation.
  - Searches around the current position if navigation is not being performed (if no destination is set).
  - Searches the area around the last confirmed position if the current position is unavailable (no GPS signal).

5 Touch the Favourites Quick Search button to display a basic list of spots.



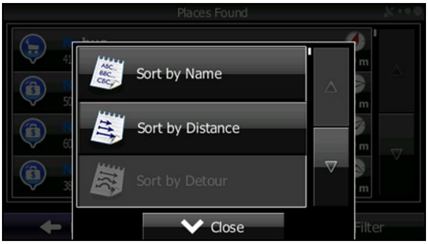
Blacket
70 King St, Sydney, NSW (New South Wales, Wynyard, Sydney CBD) New South Wal...
120 m

The Grace Hotel
77 York St, Sydney, NSW (New South Wales, Wynyard, Sydney CBD) New South Wal...
120 m

Swissotel Sydney
68 Market St., Sydney, NSW (New South Wales, Town Hall, Sydney CBD) New South...
120 m

The Westin Sydney
Pitt St, Sydney, NSW (New South Wales, Sydney CBD) New South Wales 2000
200 m

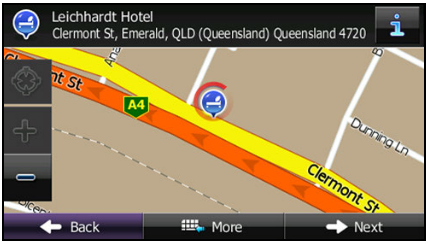
6 (Optional) You can display spots on the list in name order, in order of the distance from the current position or previously confirmed position, or in order of necessary detour distance (during navigation). If you want to change the order in which entries are presented in the list, touch More and select the style that you want. Also, you can display all of the spots on the list on the map.



7 Find the item you want on the list, and then touch that item. The map is displayed in full-screen mode with the selected point at the centre. The name and address of the spot are displayed at the top of the screen.

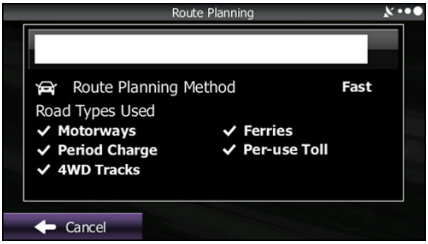
8 (Optional) Touch i to display details about the selected spot. Touch Back to return to the map.

9 If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.



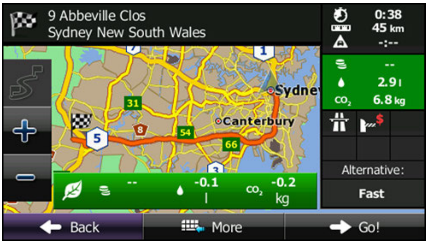
Leichhardt Hotel
Clermont St, Emerald, QLD (Queensland) Queensland 4720

10 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the “Go!” button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning

Route Planning Method Fast
Road Types Used
✓ Motorways ✓ Ferries
✓ Period Charge ✓ Per-use Toll
✓ 4WD Tracks



9 Abbeville Clos
Sydney New South Wales

0:38
45 km
-:--
--
2.9 l
6.8 kg
Alternative:
Fast
-- -0.1 l -0.2 kg

Searching for a favourite spot by category

You can search for favourite spots by category or sub-category.

1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 On the navigation menu, touch **Find**.

3 Touch **Find Places**.

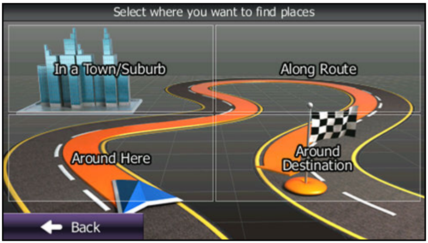
4 Touch **Custom Search**.

5 Select the spot area you want to search for as follows.

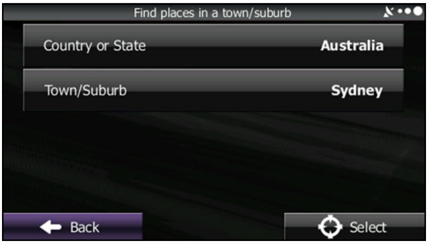
- Touch **Around Here** or **Around Last Known Position** to search around your current position, or the latest confirmed position.
- Touch **In a Town/suburb** to search for city/town spots.
- Touch **Around Destination** to search for spots at the destination during route navigation.

Navigation

- Touch **Along Route** to search along the route being navigated, rather than around an optional point. This is useful when you want to search for a petrol station or restaurant and so on along the route taking the smallest detour to get there.



- If you select **In a Town/suburb**, you can select a city/town displayed by the search.

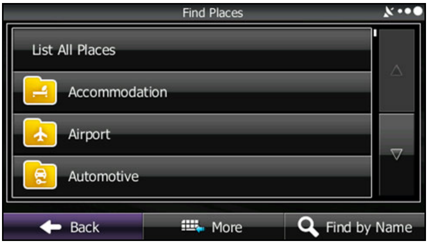


Country or State Australia

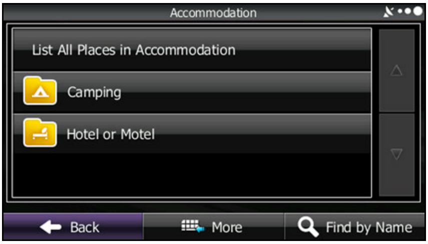
Town/Suburb Sydney

- See “Entering an address” on page 102 for information about how to select a “Country or State” or “Town/suburb”.

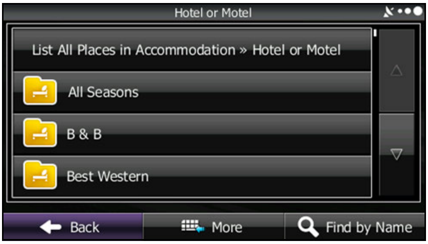
6 By selecting a main category (such as accommodations), or by touching **List All Places**, the entire list of spots around the position you selected or along the route is displayed.



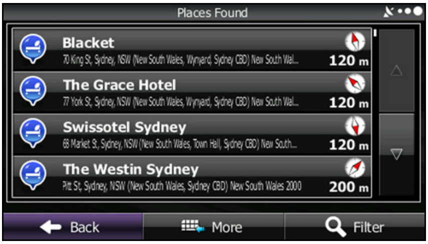
7 By selecting a sub-category (such as hotels or motels) from the main category, or by touching **List All Places**, the entire list of spots around the position you selected or along the route is displayed.



8 Brand names of services may also be displayed depending on the sub-category of the selected spot. By selecting a brand name, or by touching **List All Places**, the entire list of spots around the position you selected or along the route is displayed.



9 The final search results are displayed as a list.



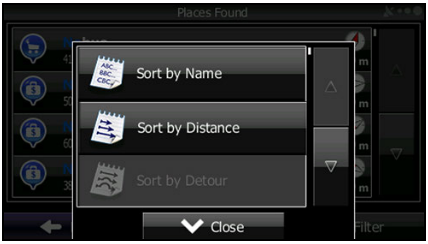
Blacket
70 King St, Sydney, NSW (New South Wales, Wynyard, Sydney CBD) New South Wal... 120 m

The Grace Hotel
77 York St, Sydney, NSW (New South Wales, Wynyard, Sydney CBD) New South Wal... 120 m

Swissotel Sydney
68 Market St, Sydney, NSW (New South Wales, Town Hall, Sydney CBD) New South... 120 m

The Westin Sydney
Pitt St, Sydney, NSW (New South Wales, Sydney CBD) New South Wales 2000 200 m

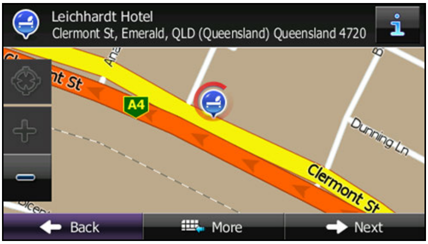
10 (Optional) You can display spots on the list in name order, in order of the distance from the current position or previously confirmed position, or in order of necessary detour distance (during navigation). If you want to change the order in which entries are presented in the list, touch More and select the style that you want. Also, you can display all of the spots on the list on the map.



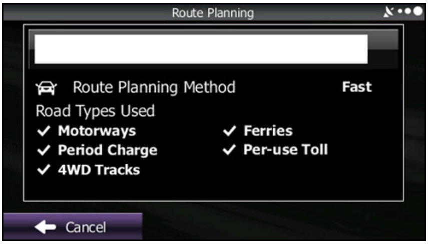
11 Find the item you want on the list, and then touch that item. The map is displayed in full-screen mode with the selected point at the centre. The name and address of the spot are displayed at the top of the screen.

12 (Optional) Touch i to display details about the selected spot. Touch Back to return to the map.

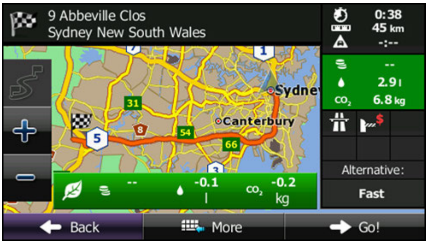
13 If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch Next to set the destination, or touch Back to select another destination.



14 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method Fast
Road Types Used
✓ Motorways
✓ Ferries
✓ Period Charge
✓ Per-use Toll
✓ 4WD Tracks



Navigation

Searching for a favourite spot by name

You can search for a favourite spot by name. You can search the entire spot database or select a category/sub-category for another location or for the route being navigated.

1. If the Map screen is displayed, touch Menu to return to the navigation menu.

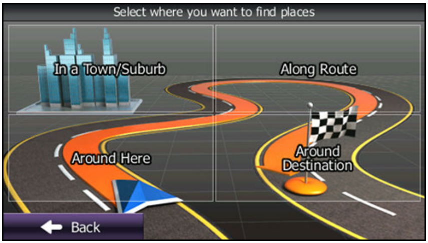
2. On the navigation menu, touch Find.

3. Touch Find Places.

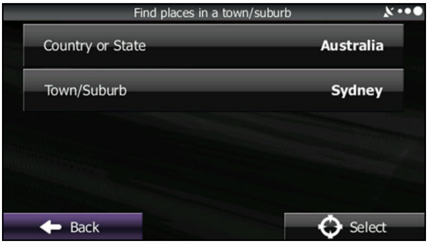
4. Touch Custom Search.

5. Select the spot area you want to search for as follows.

- Touch Around Here or Around Last Known Position to search around your current position, or the latest confirmed position.
- Touch In a Town/suburb to search for city/town spots.
- Touch Around Destination to search for spots at the destination during route navigation.
- Touch Along Route to search along the route being navigated, rather than around an optional point. This is useful when you want to search for a petrol station or restaurant and so on along the route taking the smallest detour to get there.



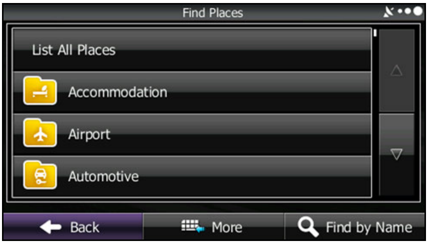
- If you select In a Town/suburb, you can select a city/town displayed by the search.



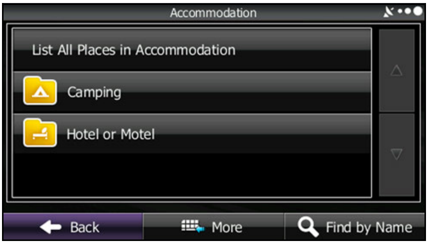
Country or State Australia
Town/Suburb Sydney

- See “Entering an address” on page 102 for information about how to select a “Country or State” or “Town/suburb”.

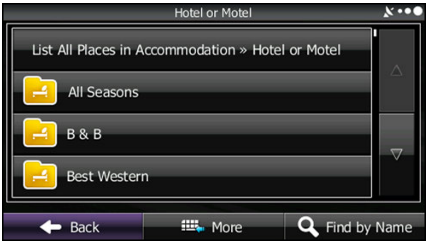
6. By selecting a main category (such as accommodations), or by touching Find by Name, you can search all spots.



7 By selecting a sub-category (such as hotels or motels) from the main category, or by touching **Find by Name**, you can search in the main category you selected.

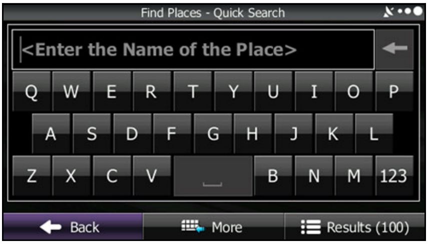


8 Touch **Find by Name** to search a sub-category of the selected spot.

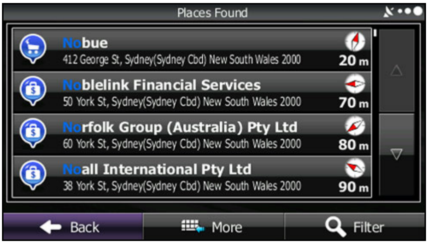


9 Use the keyboard to enter the start of the spot name.

- For the keyboard, see “Using the keyboard” on page 86.



10 Touch **Results** after entering the first few characters to open a list of spot names that include the characters you entered.

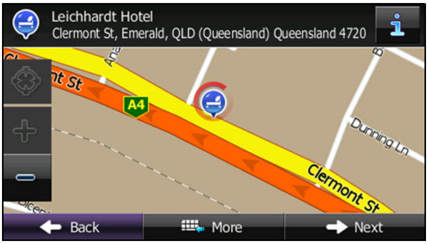


Nobue 412 George St, Sydney(Sydney Cbd) New South Wales 2000 20 m
Noblelink Financial Services 50 York St, Sydney(Sydney Cbd) New South Wales 2000 70 m
Norfolk Group (Australia) Pty Ltd 60 York St, Sydney(Sydney Cbd) New South Wales 2000 80 m
Noall International Pty Ltd 38 York St, Sydney(Sydney Cbd) New South Wales 2000 90 m

11 Find the item you want on the list, and then touch that item. The map is displayed in full-screen mode with the selected point at the centre. The name and address of the spot are displayed at the top of the screen.

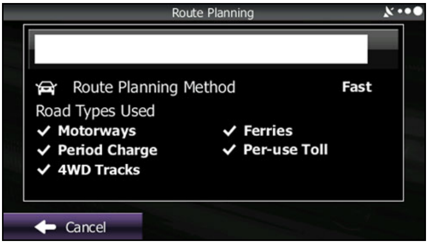
12 (Optional) Touch ℹ to display details about the selected spot. Touch **Back** to return to the map.

13 If necessary, you can touch another point on the map to change the destination. The cursor (📍) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.

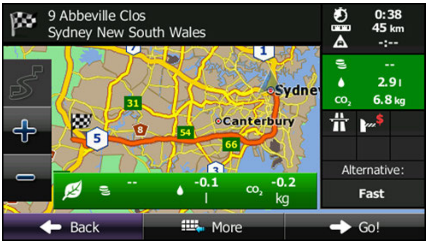

Leichhardt Hotel
Clermont St, Emerald, QLD (Queensland) Queensland 4720

Navigation

14 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



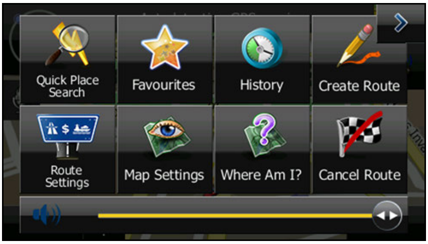
Route Planning Method Fast
Road Types Used
✓ Motorways
✓ Period Charge
✓ 4WD Tracks
✓ Ferries
✓ Per-use Toll



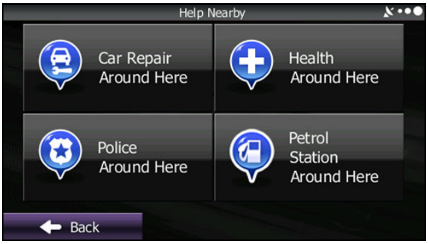
Using "Where Am I?" to select the closest assistance service

You can search for the closest assistance service by using the "Where Am I?" screen.

1 Touch ▦ on the Map screen to open the Quick menu.



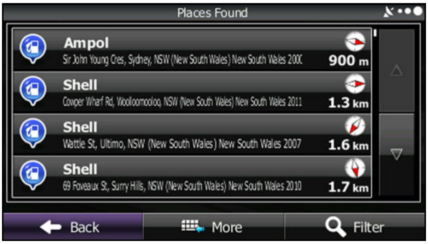
2 Touch **Where Am I?**, and then touch **Help Nearby**.



3 The preset search categories are displayed. This button searches for everything around your current position (or the latest confirmed position if it is unavailable).

- **Car Repair Around Here**:
  Vehicle repairs / Road-side assistance services
- **Health Around Here**:
  Hospitals / Emergency services
- **Police Around Here**:
  Police stations
- **Petrol Station Around Here**:
  Petrol stations

4 Touch any of the quick search buttons to display a basic list for the service you selected.



Ampol
Sir John Young Cres, Sydney, NSW (New South Wales) New South Wales 200
900 m

Shell
Cowper Wharf Rd, Woolloomooloo, NSW (New South Wales) New South Wales 2011
1.3 km

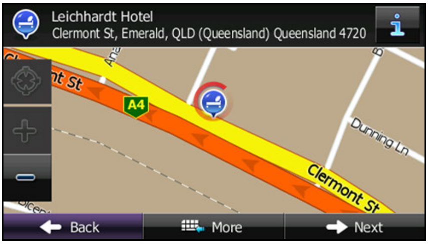
Shell
Wattle St, Ultimo, NSW (New South Wales) New South Wales 2007
1.6 km

Shell
69 Foveaux St, Surry Hills, NSW (New South Wales) New South Wales 2010
1.7 km

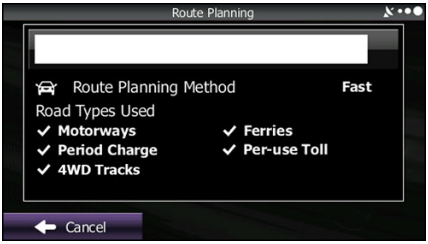
5 Find the item you want on the list, and then touch that item. The map is displayed in full-screen mode with the selected point at the centre. The name and address of the spot are displayed at the top of the screen.

6 (Optional) Touch **i** to display details about the selected spot. Touch **Back** to return to the map.

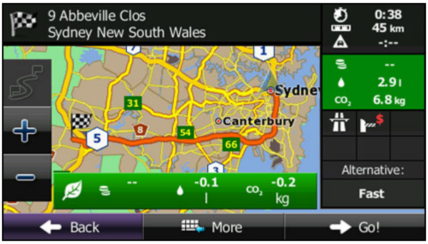
7 If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.


Leichhardt Hotel
Clermont St, Emerald, QLD (Queensland) Queensland 4720

8 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method Fast
Road Types Used
✓ Motorways ✓ Ferries
✓ Period Charge ✓ Per-use Toll
✓ 4WD Tracks


9 Abbeville Clos
Sydney New South Wales

0:38
45 km
-:--
--
2.9 l
6.8 kg
-- -0.1 l -0.2 kg
Alternative:
Fast

Navigation

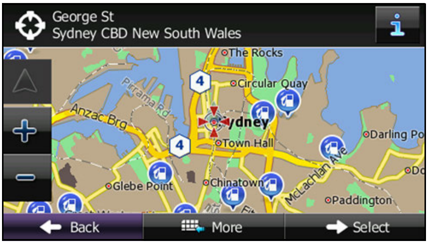
■ Selecting a map position as the destination

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 On the navigation menu, touch Find.

3 Touch Find on Map.

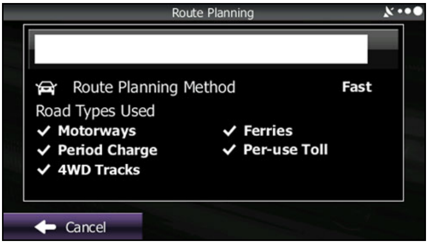
4 Search for the destination on the map as follows. Move or enlarge/reduce the map as necessary.



5 Touch the position you want to select as the destination. The cursor () is displayed.

6 Touch Select to select the cursor as the destination.

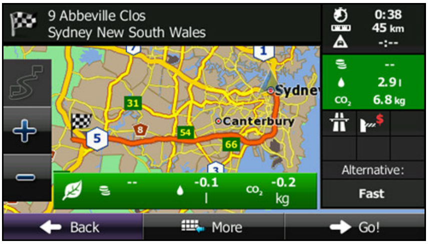
7 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)


Route Planning

Route Planning Method Fast

Road Types Used

✓ Motorways ✓ Ferries
✓ Period Charge ✓ Per-use Toll
✓ 4WD Tracks



■ Selecting the destination from the destination list

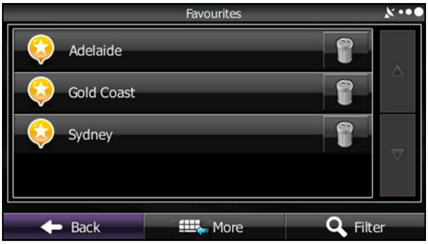
You can set a position that has been saved in the destination list as the destination.

See "Editing the Destination List (Route Editing)" on page 133 for more details on registering a position to the destination list.

1 Display the destination list as follows.

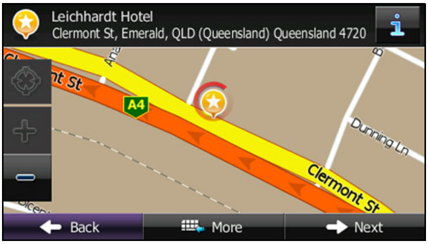
- If the Map screen is displayed, touch and then touch **Favourites**. (Only when registered to the Quick Menu.)
- If the navigation menu screen is displayed, touch **Favourites** and then touch **Find**.

2 The destination list is displayed.

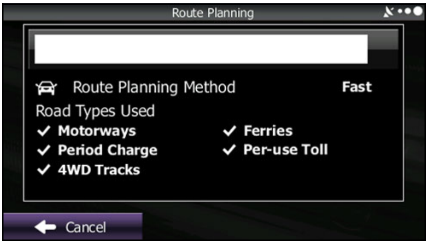


3 Touch the position you want to select as the destination. If necessary, you can scroll through the list, or touch **Filter** and enter a few letters from the item name to search the list.

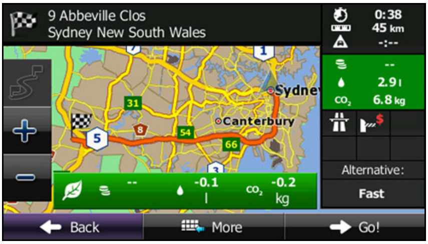
4 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor () is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.


Leichhardt Hotel
Clermont St, Emerald, QLD (Queensland) Queensland 4720

5 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method Fast
Road Types Used
✓ Motorways ✓ Ferries
✓ Period Charge ✓ Per-use Toll
✓ 4WD Tracks

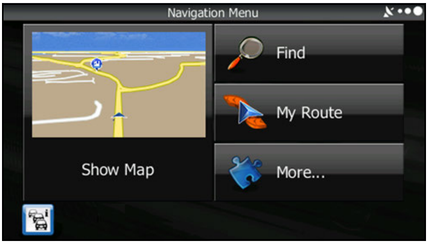

9 Abbeville Clos
Sydney New South Wales

Navigation

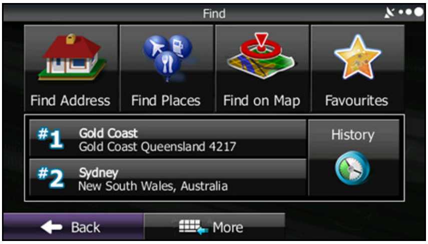
■ Selecting a frequently used destination (Smart History)

Destinations that have been set previously are displayed in the History list. The two most recent destinations are displayed on the destination menu allowing you to select them easily. Smart History uses conditions such as the current time, date, and position, and displays a position in response to the user's navigation habits. The more you use the navigation system, the more accurate the anticipated destination becomes.

1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

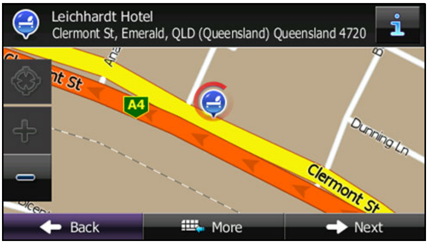


2 Touch **Find** on the navigation menu.

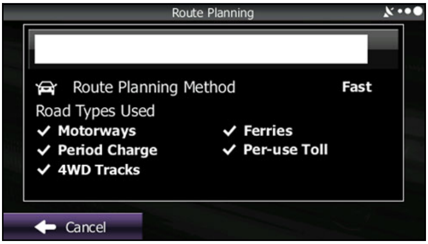


3 Touch destination #1 or #2 in the History field.

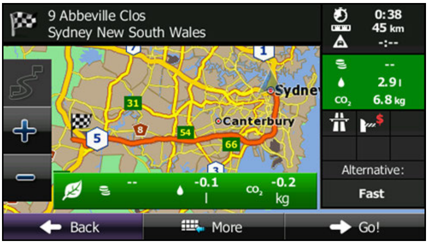
4 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor ( ) is displayed at the new position. Touch **Next** to set the destination, or touch **Back** to select another destination.



5 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch **More** to change the route plan, or touch **Go!** to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning Method Fast
Road Types Used
✓ Motorways ✓ Ferries
✓ Period Charge ✓ Per-use Toll
✓ 4WD Tracks



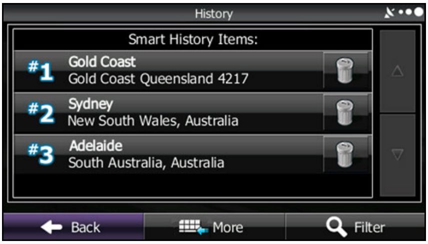
■ Selecting a recent destination from History

Destinations that have been set previously are displayed in the History list.

1 Use the History function as follows.

- If the Map screen is displayed, touch and then touch History.
- If the navigation menu screen is displayed, touch Find and then touch History.

2 A list of recently entered destinations is displayed. A History search displays three destination on the top page based on previously entered routes (destinations with the highest likelihood of use). Other destinations are displayed based on the time they were entered in the past. If necessary, scroll through the list to display older entries and select the destination.



History

Smart History Items:

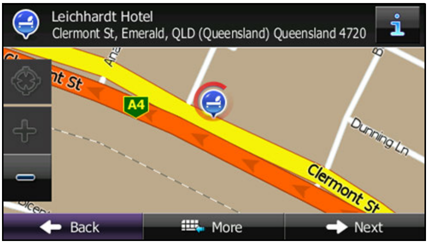
#1 Gold Coast
Gold Coast Queensland 4217

#2 Sydney
New South Wales, Australia

#3 Adelaide
South Australia, Australia

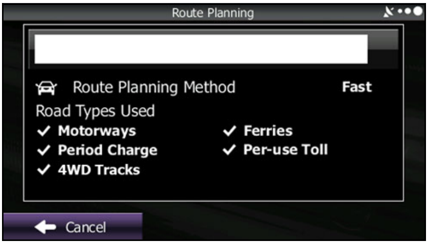
3 Select a destination from the list.

4 The map is displayed in full-screen mode with the selected point at the centre. If necessary, you can touch another point on the map to change the destination. The cursor () is displayed at the new position. Touch Next to set the destination, or touch Back to select another destination.



Leichhardt Hotel
Clermont St, Emerald, QLD (Queensland) Queensland 4720

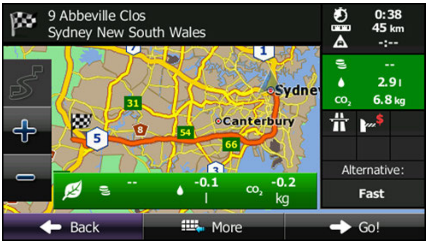
5 After a summary of the route plan is displayed, the entire route is displayed on the map. The route is researched automatically. Touch More to change the route plan, or touch Go! to start navigation. (When the countdown is displayed in the "Go!" button, guidance begins automatically after 10 seconds even if you do not touch the button.)



Route Planning

Route Planning Method Fast

Road Types Used
✓ Motorways ✓ Ferries
✓ Period Charge ✓ Per-use Toll
✓ 4WD Tracks



9 Abbeville Clos
Sydney New South Wales

Navigation

■ Creating a route from the destination list (route creator)

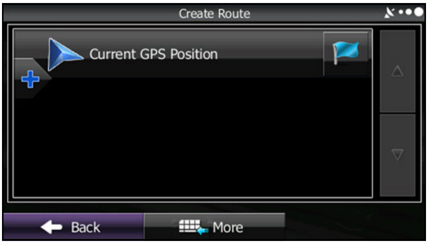
You can create a route for each destination in the saved routes menu.

1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 Touch **My Route** on the navigation menu.

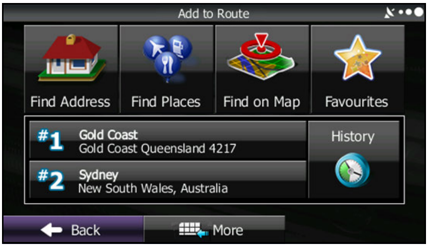
3 Touch **Create Route**.

4 Only one row showing the route's start point (current position displayed) is displayed in the route point list.

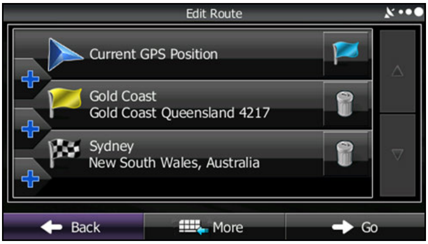


5 Touch + to select a destination.

6 When the destination menu is displayed, select the route's destination using the same method as described previously.



7 After selecting a new destination, you are returned to the list.



8 To add another destination, touch + at the point where you want to add a new route point to the list, and repeat the steps above.

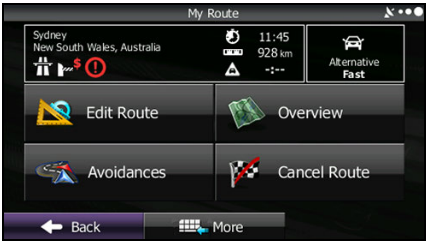
Displaying the Entire Route on the Map

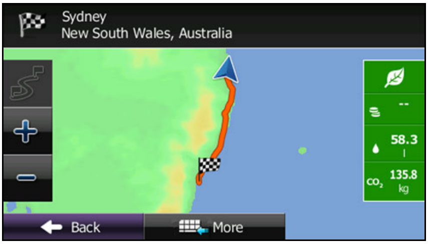
You can easily display an overview of the entire route currently being navigated. Follow the steps below to use the initial settings screen.

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 Touch My Route on the navigation menu.

3 Touch Overview. The entire route currently being navigated is displayed on the map along with detailed information and buttons.





Confirming Route Settings and Calling Route Related Functions

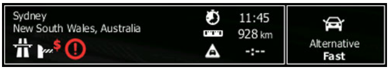
You can check a variety of route settings recommended by the software.

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 Touch My Route on the navigation menu.

3 The following information items are displayed.

- Destination Name/Address
- Displays detailed information (4WD tracks, toll roads, and so on) on the warning icons (depending on conditions) for the current route.
- Total time for route
- Total distance for route
- Estimated delay times calculated from traffic conditions on the route
- Route planning method ("Priority to time" and so on)



Navigation

4 The following options are displayed on the screen (see the next section for more detailed information).

- Touch Edit Route to add or delete a destination, or change the order for the destinations. You can set the route departure point, excluding the current position. This is useful for creating a route in advance and saving it for later use.
- Touch Overview to display the entire route on the map. (See page 129)
- Touch Avoidances to avoid a section of the route. (See page 130)
- Touch Cancel Route to delete the route currently being navigated. (See page 133)
- Touch More to display a list of various options such as selecting another route, changing the route settings, running a simulation of the route, saving the route being navigated, and reading a previously saved route.
- Touch Back to return to the navigation menu.

■ Setting the avoidance route

The Avoidances feature allows you to remove any of the roads or special sections on the planned route.

- Avoid Special Sections:
  Avoid Special Sections allows you to remove any special road types (e.g. motorways or ferries) from your route. This feature is only available if there are special sections along the planned route.
- Avoid Route Ahead:
  The Avoid Route Ahead option skips a predefined length of the planned route (500m, 1000m, etc.) right ahead of the current position.
- Avoid Specific Road:
  Avoid Specific Road allows you to skip a specific road from your calculated route.
- Restore Original Route:
  Touch “Restore Original Route” to delete the avoid route being navigated.

In each case, the result of the selected avoidance is shown on the map with an indication of additional or saved time and distance. The user can review and confirm the avoidance on this screen.

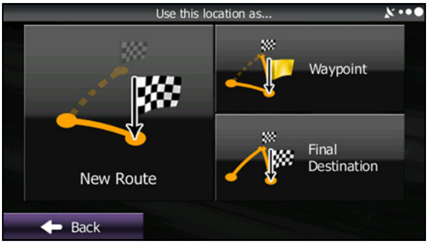
Note that avoidances are not permanent: they are only applied for the active route.

Changing the Route

When navigation has already begun, you can change the route being navigated by using one of the following methods. The methods are explained in the following section.

■ Selecting a new destination after the route has been set: new route, waypoint, and final destination

If a recommended route is already available, and a new destination has been selected using the method described in the previous section, the start new route, add a new waypoint (midway point), and add the destination you selected as the final destination buttons are displayed.



- Touch **New Route** to create a new route at the position you selected. Previous destinations and waypoints are deleted.
- Touch **Waypoint** to add the position you selected as a new waypoint for the current route. Other destinations for the route are already enabled. Note: Waypoints are set so that the optimum route is maintained between destinations. You can use the route editing function to set the position for waypoints on the route.
- Touch **Final Destination** to add the destination you selected as the final destination for the current route. Other destinations for the route are already enabled. Up to now, the position marked as the final destination becomes the final waypoint.

■ Setting a new starting point for the route

In standard navigation, all routes are created from the current position. You can turn off the GPS so that you can study a route that is not currently being driven, run a simulation, and check the time or distance for the route. This way, you can set a start point for the route without using the current GPS position.

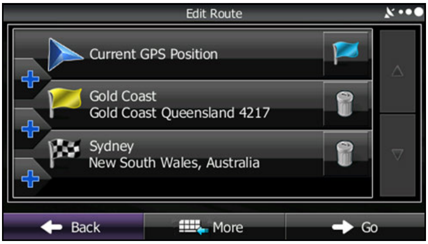
1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

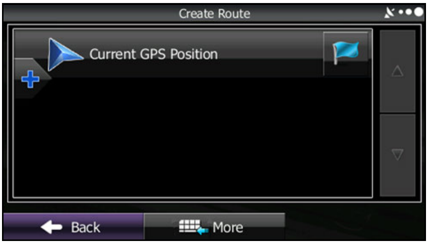
2 Touch **My Route** on the navigation menu.

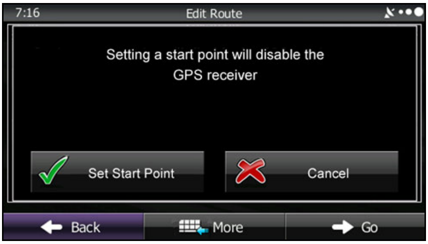
3 If a route is already available, touch **Edit Route**. If a route has already started, touch **Create Route**.

Navigation

4 The first row shows the start position (displays the current position) for the route. When you touch ⚑, if a warning message is displayed, select which operation to perform.

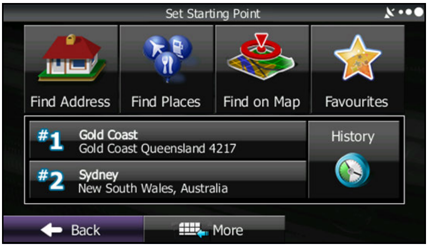






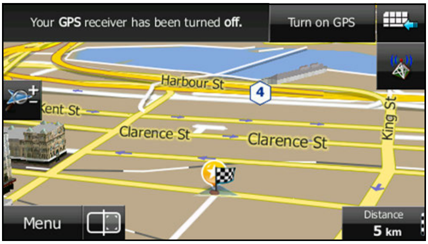
Setting a start point will disable the GPS receiver

5 When the destination menu is displayed, select the route's start point by using the same method as selecting the destination.



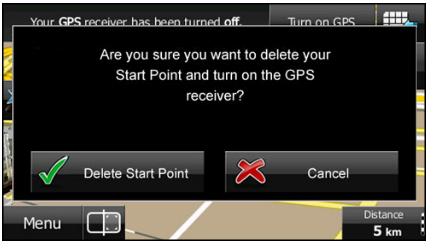
6 Set the new start point, and then touch Go!.

7 The vehicle marker goes clear on the map, indicating that there is no GPS reception. If a route is already being navigated, it is recalculated using the position selected at that time.



Your GPS receiver has been turned off.

8 To return to standard navigation, touch Turn on GPS, and if a warning message is displayed, select which operation to perform.



Your GPS receiver has been turned off.

Are you sure you want to delete your Start Point and turn on the GPS receiver?

■ Editing the Destination List (Route Editing)

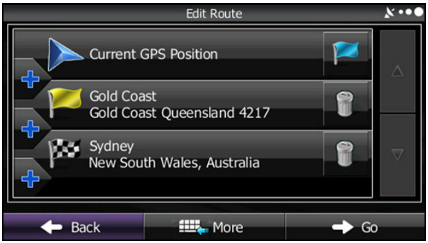
You can change the destination list and edit the route. You can add or delete destinations, change the start point, or change the order of the list.

1. If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2. Touch **My Route** on the navigation menu.

3. Touch **Edit Route**.

4. The following options are available.



- Touch ➕ to add a new destination.
- Touch 🗑 to delete a destination.
- Touch ⚑ to change the start point of the route.
- Touch **More** to change the display order of the list. You can also manually select the optimum route in the application.

■ Pausing Route Navigation

You do not need to pause a route currently being navigated. When you start driving again, the software automatically restarts audio navigation from the current position.

■ Cancelling Route Navigation

Perform one of the following procedures to cancel a route that is currently being navigated.

- If the Map screen is displayed, touch ▦ and then touch **Cancel Route**. (If waypoints are set on the route, you need to touch **Remove Next Waypoint** until all waypoints have been deleted.)
- On the navigation menu, touch **My Route**, and then touch **Cancel Route**. The route being navigated is deleted, including all waypoints.

Navigation

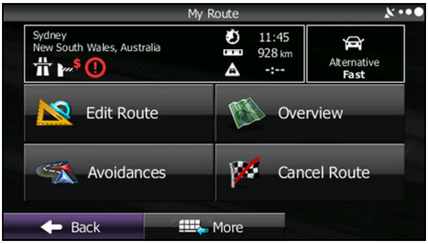
■ Changing the Method for Searching for a Route (Other Routes, etc.)

Change the Route settings to perform a new search for the route being navigated using a different method. (See page 148) You can even search again by comparing different routes. Follow the steps below to use the initial settings screen.

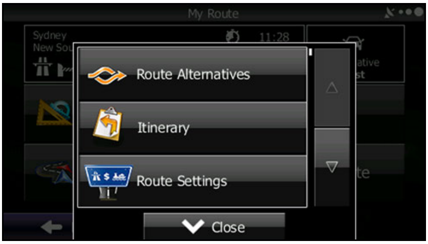
1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 Touch **My Route** on the navigation menu.

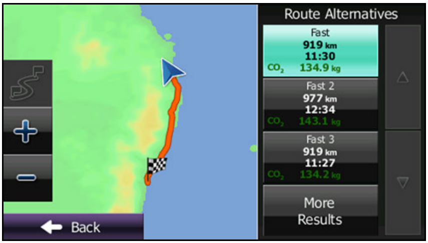
3 Touch **More**.



4 Touch **Route Alternatives**.



5 Using the current search method, three routes are displayed in order of recommendation. Touch **More Results** to search using a different method. Also, if only a short distance is being navigated or only a few search candidates are found, each search method displays only one route.



● **Fast**:
Searches all roads for the quickest route following the speed limits of the roads.

● **Short**:
Searches for the shortest distance in all possible routes.

● **Green**:
Searches for the route that conserves the most energy, taking into account the merits of "Fast" and "Short".

● **Easy**:
Searches for a route that is easiest to drive, with few right and left turns. Using this option, the program allows you to avoid combinations of smaller roads and to take the motorway.

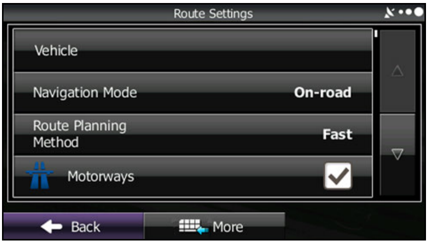
6 Touch **Back** to return to the previous screen. The route is searched again using the selected method. The new recommended route is indicated by an orange line.

■ Changing the Road Categories used for the Route Search

You can use the following method to search the current route again using different road categories. This can also be changed in Settings. (See page 148)

1 On the Map screen, touch , and then Route Settings.

2 Touch one of the road categories displayed in the list to change the route. If necessary, scroll the list to view all road categories. The following items are available (the order differs depending on the type of vehicle selected).



Route Settings

Vehicle

Navigation Mode On-road

Route Planning Method Fast

Motorways ☑

- Vehicle:
  Sets various factors to take into account when performing a search, such as fuel consumption, vehicle model, fuel costs, and maximum speeds on normal roads and motorways.
- Navigation Mode:
  You can change between On-road and Off-road.

  Set to On-road to perform normal navigation, or set to Off-road to navigate using the straightest possible route to the destination.
- Route Planning Method:
  By changing the route search method, you can search for the optimum route for a variety of situations and types of vehicle. See the following items for more details.
- Motorways:
  Select whether or not to use the motorway when creating the route.
- Period Charge:
  Select whether or not to use toll roads (Period Charge) when creating the route.
- Per-use Toll:
  Select whether or not to use toll roads (Per-use Toll) when creating the route.
- Ferries:
  Select whether or not to use ferries when creating the route. (However, ferries might not always be selected for the route.) However, information on temporary service ferries may not be displayed on the map. There may be a fee for using the ferry.
- 4WD Tracks:
  Select whether or not to use 4WD tracks when creating the route.
- Calculate Green Alternative:
  Select whether or not to consider energy efficiency when creating the route.

3 Touch Back to set the changes. The route is searched again, and the new recommended route is indicated by an orange line.

Saving a Position to the Destination List

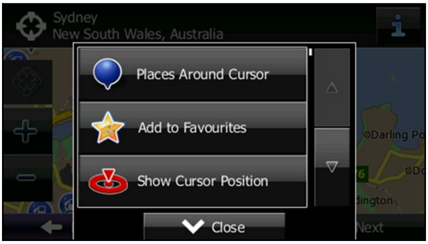
The destination list is a list of frequently used destinations. You can add any destination to this list. See “Selecting the destination from the destination list” on page 125 for more details on searching for a route using a destination from the destination list.

Navigation

1 Select a destination.

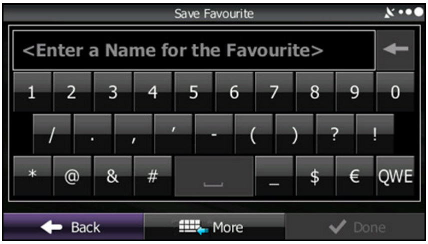
2 When the map is displayed in full-screen mode with the selected point at the centre, touch **More**.

3 Touch **Add to Favourites**.



4 (Optional) You can use the keyboard to change the initial display name in the destination list. Touch **123** to enter numbers or symbols.

- For the keyboard, see “Using the keyboard” on page 86.



5 Touch **Done** to save the position as a new entry on the destination list.

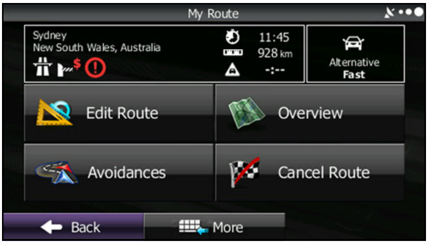
Displaying a Simulation of the Route

You can run a simulation of the route currently being navigated. Follow the steps below to use the initial settings screen.

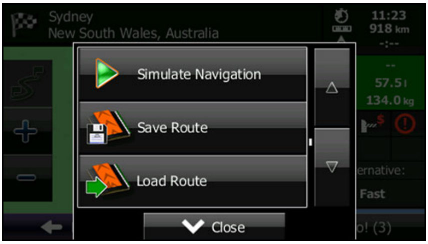
1 If the Map screen is displayed, touch **Menu** to return to the navigation menu.

2 Touch **My Route** on the navigation menu.

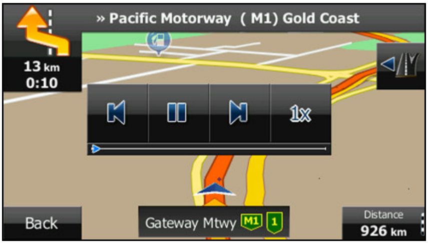
3 Touch **More**.



4 Scroll down through the list, and then touch **Simulate Navigation**. The simulation begins from the start point and works through the entire route at the recommended speed.



5 (Optional) You can use the following buttons during the simulation (although the control buttons disappear after a few seconds, you can touch the map to show them again).



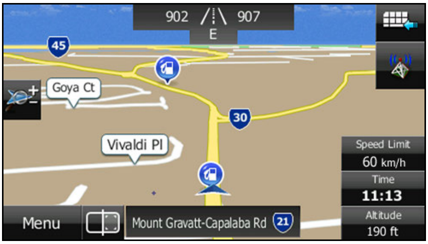
- ⏮: Returns to the previous route event (the previous change in the route)
- ⏭: Pauses the simulation.
- ⏸: Goes to the next route event (the next change in the route)
- 1x: Changes the speed of the simulation. You can select from speeds of x4, x8, or x16. Touch again to return to normal speed.

6 Touch **Back** to stop the simulation.

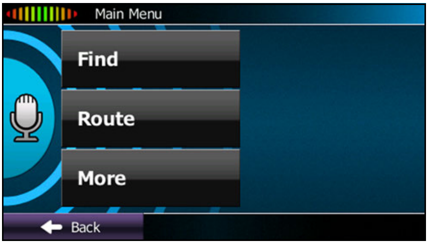
Voice Control Navigation

By using the voice control system (voice input microphone and switch), you can set the destination by giving voice commands. This enables you to use functions that are usually inoperable while driving.

1 By using the voice recognition trigger or voice recognition switch you can use voice commands to operate the navigation. (See page 274)



2 When using voice commands to operate the navigation, a command list is displayed. Voice a command after the “beep”. From then on, you can give voice commands that are displayed on the command list to set the destination in the same manner.



- Voice control navigation can be interrupted by touching the microphone icon on the screen. When the icon is touched, the screen background colour changes (green ↔ blue). To resume navigation voice control, touch the microphone icon again.

  The differences in background colours are explained below.

  - **Command standby screen (green):**

    This is the voice control command standby screen. When this screen is displayed, you can speak a command to perform navigation control. You can also perform control by directly touching the commands that are displayed on the screen.

Navigation

- **Manual mode screen (blue):**

  This screen appears when voice control is interrupted. You can perform control by directly touching the commands that are displayed on the screen.

- **Talkback screen (yellow):**

  This screen appears while the talkback voice is being played when a command is recognised.

- **Command recognition failed screen (red):**

  This screen appears when command recognition failed.

Reference Data

The following pages explain the software's various features and menu screens.

Feature

■ Smart Zoom

Smart zoom offers a large improvement over standard zoom functions.

- **While driving the route:** When approaching an intersection, the screen is enlarged and the viewpoint raised so that you can easily see which way to drive at the next intersection. After navigating the intersection, the screen is reduced and the angle lowered to check the road in front.
- **When driving without route navigation:** The screen is enlarged as you slow down and reduced as you speed up.

■ Switching between Day and Night Screens

For the Map screen and menu screen, the colours differ between day and night.

- During daytime, the screen's colours are the same as those of a printed map, and the menu is brighter.
- At night, the screen uses dark colours for large objects and reduces the overall brightness of the screen.

The screen's colour scheme differs between day and night. Using the current time and GPS position, you can also switch automatically between day and night screen settings just before sunrise (at dawn) and just after sunset (at dusk).

■ Screen Design in Tunnels

When you enter a tunnel, the map colours change. All buildings disappear, and large objects with nothing between roads (lakes, seas, forests, and so on) turn black.

However, roads are displayed as they are whether the screen is currently using day or night settings.

When you exit the tunnel, the original colour scheme is restored.

■ Route Search/Search Again

You can search for routes to suit your preferences.

Route search methods:

- Fast :
  Searches all roads for the quickest route following the speed limits of the roads.
- Green :
  Searches for the route that conserves the most energy, taking into account the merits of “Fast” and “Short”.
- Short :
  Searches for the shortest distance in all possible routes.
- Easy :
  Searches for a route that is easiest to drive, with few right and left turns. Using this option, the program allows you to avoid combinations of smaller roads and to take the motorway.

Reference Data

Search for a route by using or avoiding certain road categories:

- Motorways
- Period Charge
- Per-use Toll
- Ferries
- 4WD Tracks
- Calculate Green Alternative

When data is available, a route is searched for based on prior statistical data relating to the day, week, and time. (See page 141)

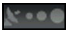
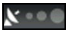
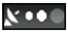
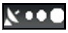
The route may change drastically when real-time traffic conditions are factored in.

If you leave the route that was searched for based on your current position, and new information is received regarding traffic conditions for the recommended route, the software automatically searches for another route.

See “Route Settings” on page 148 for detailed information on Route settings.

■ GPS Positioning Quality Indicator

The GPS reception quality icon at the top right of the menu screen indicates the current accuracy of positional information.

Icon	Explanation
	The software is not connected to the GPS receiver. Cannot perform GPS navigation. Products with a built-in GPS receiver are always connected. This icon is not normally displayed for those products.
	Although the software is connected to the GPS receiver, the signal is too weak to measure the GPS. Cannot perform GPS navigation.
	Only a few satellites are transmitting. Positional information is available, but altitude (elevation above sea level) cannot be calculated. GPS navigation is possible, but large positional errors may occur.
	Elevation above sea level is available, and measurements can be performed in 3D. GPS navigation is available.

■ Online Road Information Saved in Route Search

The recommended route between two points is not always the same. Even when offline, statistics on traffic information (prior traffic data or traffic patterns) are gathered in the main unit, and when data is available, a route is searched for taking into account statistics relating to the day, week, and time. Additionally, real-time traffic information (TMC) is also available, allowing you to avoid traffic jams due to temporary road closures or accidents. This has an impact on any function for which data is available.

Smart route using traffic information in saved statistics

When statistical information is included in map data, the information can be taken into account when searching for a route. This function is normally useful for avoiding traffic jams that usually occur on regular weekdays, however errors may occur if a national holiday and so on falls on a regular weekday. In situations like that, you can turn off Smart route from Traffic settings. (See page 147)

Real-time traffic information (TMC)

Unlike the statistical traffic information TMC (Traffic Message Channel) offers real-time traffic conditions. This can help you to avoid traffic jams that could not be anticipated due to road closures or accidents.

TMC uses a dedicated FM Radio Data System (RDS) to broadcast real-time traffic and weather reports.

The default settings use traffic information when searching for a route.

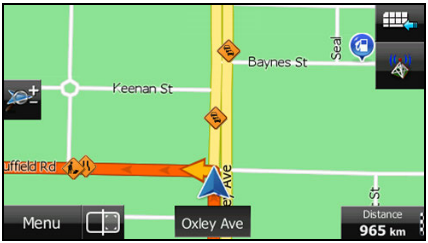
The TMC receiver necessary to receive traffic condition reports is built-in to some products, but not for others. Contact your nearest dealer.

If traffic data normally broadcast in your region can be accessed, this received information is automatically taken into account. This does not need to be manually set. FM radio stations broadcasting TMC data are searched for automatically, and decoded information is immediately used to search for routes. If traffic information that might affect the current route is received, a warning is displayed indicating that the route will be searched for again, and navigation continues using a new optimal route taking into account the latest traffic conditions.

By delaying the timing before applying a route that has been searched again, the user can check the route and fine-tune the details creating the optimal search results. You can set this from Traffic settings. (See page 147)

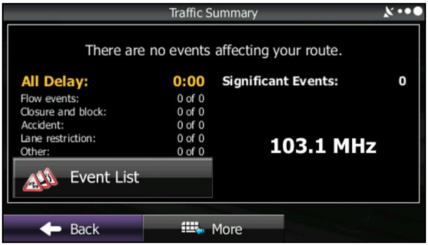
When traffic information is being received, a special icon (◆) is displayed on the map. When there is no traffic information available for the route, this icon indicates the status of the traffic information receiver, and when information is received, the type of upcoming traffic information is displayed.

Road sections affected by traffic conditions are displayed in a different colour on the map, and a small icon representing the type of traffic condition is displayed above the road.



Touch ▲ to display the Traffic Summary screen.

Reference Data



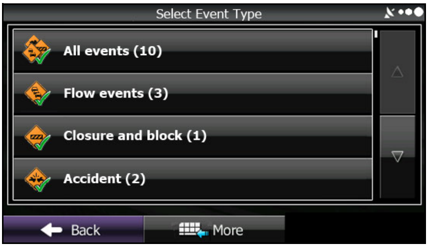
There are no events affecting your route.

All Delay: 0:00
Flow events: 0 of 0
Closure and block: 0 of 0
Accident: 0 of 0
Lane restriction: 0 of 0
Other: 0 of 0

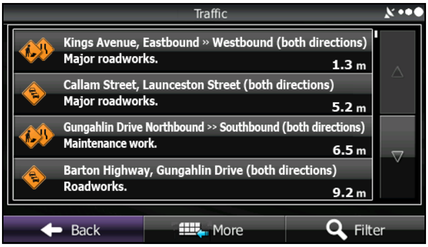
Significant Events: 0

103.1 MHz

Touch Event List to check the traffic information that has been received.



On this screen, you can select one entry from the list to view list of the traffic conditions for that section of the road.



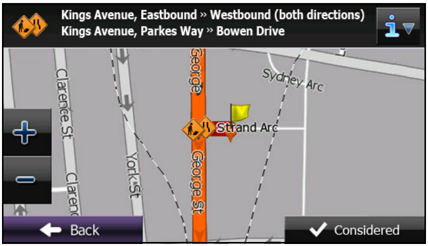
Kings Avenue, Eastbound » Westbound (both directions)
Major roadworks. 1.3 m

Callam Street, Launceston Street (both directions)
Major roadworks. 5.2 m

Gungahlin Drive Northbound » Southbound (both directions)
Maintenance work. 6.5 m

Barton Highway, Gungahlin Drive (both directions)
Roadworks. 9.2 m

On this screen, you can select one entry from the list to view full details of the traffic conditions for that section of the road.


Kings Avenue, Eastbound » Westbound (both directions)
Kings Avenue, Parkes Way » Bowen Drive
Clarence St
York St
George St
Sydney Arc
Strand Arc
Back
Considered

Touch i to open another screen displaying information on the selected map position.

ATTENTION

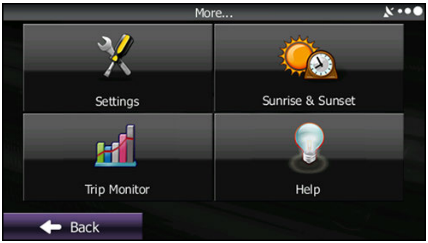
- ● This function is only available when TMC is installed in the product being used.
- ● The TMC service is not available for all regions. There are also times when it may not be available in your country or district. For more information on availability, contact your nearest dealer.

“More” Menu

Various options are available from the “Others” menu. Touch More on the navigation menu.

1 If the Map screen is displayed, touch Menu to return to the navigation menu.

2 Touch More on the navigation menu.



- ● **Settings**:
  Configures programs and changes operational patterns for the software. Performs functions such as fine tuning route search options, changing the Map screen design, turning warnings on or off, and launching the Setup Wizard.
- ● **Sunrise & Sunset**:
  You can check global sunrise and sunset times. Places a mark on the map to show the user's current position and route points. Touch the Details button to check accurate sunrise and sunset times for all points along the route (current position, all waypoints, final destination).

- **Trip Monitor**:

  Displays a list of all trip logs, whether they are saved by the user upon reaching the destination or whether they are saved automatically. By touching an item from the trip that is displayed, you can check trip data, speeds, and more detailed contents. When a path log has been saved, you can display it on the map in the colour selected. You can use the path log for other purposes by exporting it as a GPX file.

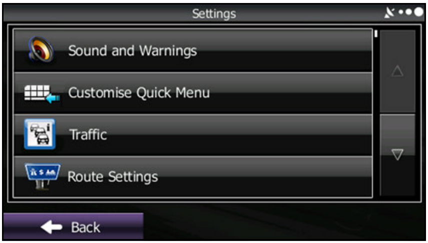
- **Help**:

  Displays a tutorial allowing for a quick grasp of the software's functions, and starts a demonstration showing a sample route simulation to check the navigation functions. The About section displays product information. Here you can view the software and database user license agreements, search for the contents license, and check the software ID. You can check statistical data for program use.

Settings Menu

Configures programs and changes operational patterns for the software. On the navigation menu, touch **More**, and then touch **Settings**.

The Settings menu contains a variety of options. Touch ▽ or scroll the list with your finger to view the entire list.



- **Sound and Warnings**:

  Performs volume adjustment or changes the voice guidance language. Also enables various warnings and warning settings. (See page 144)

- **Customise Quick Menu**:

  Allows you to set Quick menu items to suit your needs. Touch the button you want to change, and then select another function from the list. (See page 97)

- **Traffic**:

  The recommended route between two points is not always the same. Even when offline, statistics on traffic information (prior traffic data or traffic patterns) are gathered in the main unit, and when data is available, a route is searched for taking into account statistics relating to the day, week, and time. Additionally, real-time traffic information (TMC) is also available, allowing you to avoid traffic jams due to temporary road closures or accidents.

  This has an impact on any function for which data is available. (See page 147)

Reference Data

- **Route Settings**:
  Sets the route search method. Select the type of vehicle you are using, the road category to use for the route search, and the route search method. (See page 148)
- **Map Settings**:
  Fine tunes the Map screen appearance. Performs adjustments for your selected map display, selects from a list of colour designs used for daytime and nighttime, turns the path log on or off, and manages the spot display categories (allows you to select the type of spot displayed on the map). (See page 149)
- **Visual Guidance**:
  Changes settings related to Map screen guidance. (See page 150)
- **Units and Formats**:
  Sets display units and the date display. (See page 151)
- **Trip Monitor**:
  Contains useful information on the user's distance moved in the trip logs and path logs. You can save trip logs automatically by turning this setting on, or save them manually when arriving at a destination. (See page 151)
- **Start Configuration Wizard**:
  Changes basic software configurations set during the initial setup process. See step 3 in “Navigation settings” on page 83.

■ Sound and Warnings

Performs volume adjustment or changes the voice guidance language. Also enables various warnings and warning settings.

⚠ CAUTION

Be sure to set the volume of the audio at an appropriate level. Improper volume setting may result in hearing damage or a traffic accident.

- **Volume**:
  Touch this button to adjust various volumes in the application. The type and buttons for various different volumes is displayed on a new screen. See the following items for more details.
- **Voice Language**:
  This button displays the current language for voice guidance. Touch this button to select a new language/narrator from the available languages and list of narrators. When you touch an item from the list, a sample of the audio is played back. Touch **Back** after selecting a new voice language.
- **TTS Pro**:
  Touch this button to select the frequency of voice information, as well as turning on or off various voice information such as information on traffic conditions.
- **Verbosity Level**:
  You can select the Verbosity Level from “Minimal”, “Compact”, or “Verbose”.
- **Voice Recognition**:
  Touch this button to turn on or off talk back voice recognition results, or change the voice recognition method.

- Speed Warning Settings :

  The map may include information on speed limits for different sections of the road. This can generate warnings if you go over the current speed limit. This information may not be available in your region, and may not be accurate for all road maps. Here you can set whether you want to receive a warning display or an audio warning.

  You can adjust the slider to set the speed at which a warning is generated.

  The following warning types are available.

  - Voice warnings:

    If the speed limit is exceeded by a certain percentage, a male voice utters a warning.

  - Display warnings:

    If you go over the current speed limit, the speed limit is displayed on the map.

    Here you can set whether or not to always display speed limits on the map (normally they are only displayed if you go over the speed limit).

- Alert Point Settings :

  Displays driver warning information on the map. Touch this button to turn these warnings on or off, and set how far from the danger the warning should be generated. You can make individual settings for each type of warning.

- Warning Sign Alerts :

  Displays driver warning information on the map. Touch this button to turn these warnings on or off, and set how far from the danger the warning should be generated. You can make individual settings for each type of warning.

You can adjust the volume for the following voice categories.

- Guidance:

  Changes the volume for the guidance voice (when guiding using a narrator).

- Alert Beeps:

  Changes the volume for audio warnings (the beep).

Adjustment buttons for each audio classification:

- Volume slider:

  Adjusts the volume of the associated audio.

Reference Data

■ Customise Quick Menu

Allows you to set Quick menu items to suit your needs. (See page 97) Touch the button you want to change, and then select another function from the list.

Button	Explanation	Primary Location
Quick Place Search	Touch this button to search around a point on the route, or your current position (when a route search has not been performed).	Find / Find Places / Quick Search (See page 113)
Favourites	Touch this button to select an item from the destination list.	Find / Favourite (See page 125)
History	Touch this button to select previously set destinations from the history list.	Find / History (See page 126)
Create Route / Edit Route	Touch this button to change the route.	My Route / Create (Edit) Route (See page 131)
Route Settings	Touch this button to change route related settings.	More / Settings / Route Settings (See page 148)
Map Settings	Touch this button to change map related settings.	More / Settings / Map Settings (See page 149)
Where Am I?	Touch this button to display a special screen with a button that searches for information on your current position and determines the nearest emergency assistance or road-side assistance. See the following section for more details.	N/A
Cancel Route	Touch this button to clear the route and cancel navigation. This button is available when only one destination is set.	My Route / Cancel Route (See page 133)
Remove Next Waypoint	Touch this button to remove the next waypoint from the route. When multiple destinations are set, the previous waypoint is displayed. This button is available when only two or more destinations are set.	N/A
Overview	Reduces the scale of the 2D map to display the entire route.	My Route / Overview (See page 129)
Visual Guidance	Opens the Visual Guidance settings screen.	More / Settings / Visual Guidance (See page 150)
Traffic	Opens the overall traffic conditions screen.	Touch the navigation menu or the Map screen's road icons.
Avoid	Avoids part of the recommended route.	My Route / Avoidances
Trip Monitor	Opens the trip monitor screen from which you can manage your saved trip logs and path logs.	More / Trip Monitor (See page 142)

Button	Explanation	Primary Location
Itinerary	Opens a list of changes in the route (distances).	Touch the top of the Map screen during navigation.
Save Route	The route being navigated is saved to be used later.	My Route / More / Save Route
Load Route	Changes to a saved, previously navigated route.	My Route / More / Load Route
Find Places	Searches for your favourite spots using a variety of methods.	Find / Find Places (See page 113)
Simulate Navigation	The Map screen opens and a simulation of the route being navigated starts.	My Route / More / Simulate Navigation (See page 136)
GPS Info	Opens the GPS information screen showing satellite positions and signal strength.	Touch the top of the Map screen if there is no GPS reception.

■ Traffic

The recommended route between two points is not always the same. Even when offline, statistics on traffic information (prior traffic data or traffic patterns) are gathered in the main unit, and when data is available, a route is searched for taking into account statistics relating to the day, week, and time. Additionally, real-time traffic information (TMC) is also available, allowing you to avoid traffic jams due to temporary road closures or accidents.

This has an impact on any function for which data is available.

- Traffic Receiver :

  Turns on or off the traffic information display.

- Detour :

  Set to use real-time traffic information when searching for a route. When searching for a new route, or when it is necessary to search again based on the traffic information received, it searches for merits to avoiding the current traffic conditions.

  Set so that confirmation is needed every time you perform another search by delaying the timing when the search is remade.

  - Never offer detour :

    When this button is touched, routes that do not satisfy traffic conditions are not searched.

  - Offer detour if the calculated route saves more than: :

    When this button is touched, routes that satisfy traffic conditions are searched.

  - Time slider:

    Adjust the timing before starting another route search. (You can set 0 to 60 every 5 minutes)

  - Do you want to confirm the offered route? :

    You can turn the route confirmation display on or off for each new search.

  - Event Types :

    Touch this button to open a list of types of traffic conditions, and select the events to take into consideration when searching for a route.

Reference Data

Settings button for each type of traffic condition

- **All events in this category will be:** :
  You can select “Considered” or “Ignored” when searching for a route.
- **Visible on map** :
  You can turn the icon display on the map on or off.

■ Route Settings

Sets the route search method.

- **Vehicle** :
  Sets various factors to take into account when performing a search, such as fuel consumption, vehicle model, fuel costs, and maximum speeds on normal roads and motorways.
- **Navigation Mode** :
  You can change between On-road and Off-road.

  Set to On-road to perform normal navigation, or set to Off-road to navigate using the straightest possible route to the destination.
- **Route Planning Method** :
  By changing the route search method, you can search for the optimum route for a variety of situations and types of vehicle. See the following items for more details.

You can set which road categories to include or to avoid in the route to match the user's preferences.

Avoiding a road category is simply a matter of changing the priority level. This does not mean that the selected road category will never be used. If the navigation cannot reach the destination without using a road category that should be avoided, the road category will be used, but only as little as possible. If this does happen, a warning icon is displayed on the My Route screen, and the part of the route that uses a road category that should be avoided is displayed on the map in another colour.

In the road category list you can check the number of sections used for each road category on the current route and the overall distance.

- **Motorways** :
  Select whether or not to use the motorway when creating the route.
- **Period Charge** :
  Select whether or not to use toll roads (Period Charge) when creating the route.
- **Per-use Toll** :
  Select whether or not to use toll roads (Per-use Toll) when creating the route.

- **Ferries**:
  Select whether or not to use ferries when creating the route.(However, ferries might not always be selected for the route.)However, information on temporary service ferries may not be displayed on the map. There may be a fee for using the ferry.
- **4WD Tracks**:
  Select whether or not to use 4WD tracks when creating the route.
- **Calculate Green Alternative**:
  Select whether or not to consider energy efficiency when creating the route.

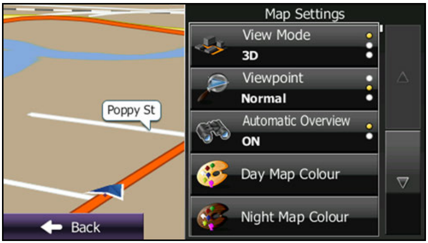
Type of route search method:

- **Fast**:
  Searches all roads for the quickest route following the speed limits of the roads.
- **Green**:
  Searches for the route that conserves the most energy, taking into account the merits of “Fast” and “Short”.
- **Short**:
  Searches for the shortest distance in all possible routes.
- **Easy**:
  Searches for a route that is easiest to drive, with few right and left turns. Using this option, the program allows you to avoid combinations of smaller roads and to take the motorway.

■ Map Settings

Fine tunes the Map screen appearance. Performs adjustments for your selected map display, selects from a list of colour designs used for daytime and nighttime, turns the path log on or off, and manages the spot display categories (allows you to select the type of spot displayed on the map).

Because the map is displayed on the screen, you can check the results as you change settings.



View Mode: 3D
Viewpoint: Normal
Automatic Overview: ON

- **View Mode 3D**:
  Select the display mode from a 3D bird's-eye view, a 2D heads-up flat view, or a 2D North Up flat view.
- **Viewpoint Normal**:
  You can adjust the standard zoom and the angle of tilt to suit your needs. You can set the level in three stages.
- **Automatic Overview**:
  Automatically reduces the scale of the 2D map to display the entire route. You can turn this function on and off.
- **Day Map Colour**:
  Select the screen colour used in daytime mode.
- **Night Map Colour**:
  Select the screen colour used in nighttime mode.

Reference Data

- **Landmarks**:
  Show or hide 3D landmarks, 3D designs, or block diagrams represented as easy to see icons, or plain icons.
- **Buildings**:
  Show or hide actual building dimensions and positions on the map, representing all urban buildings as 3D landmarks, 3D designs, or block diagrams.
- **Track Logs**:
  Turns the path log save function on or off (saves in positional order for each trip).
- **Place Markers**:
  Select a spot displayed on the map during navigation. We recommend reducing the number of spots displayed as much as possible as the map is difficult to see if there are too many spots. Because of this, the software is designed to allow multiple spot displays. Follow the steps below.
  - Touch the check box to show or hide the spot category.
  - Touch the spot category name to open a sub-category.
  - Touch **More** to save the currently displayed spot position, or read spot displays saved previously. You can also restore the default display settings.

■ Visual Guidance

Changes settings related to Map screen guidance.

- **Data Fields**:
  You can set the data fields displayed at the corner of the Map screen to match your needs. Touch this button and select the guidance you want to display. Values may differ when driving without having set a destination in route navigation. You can select current speed or altitude and so on for a standard trip data, or select route data related to the final destination or the next waypoint on the route.
- **Motorway Services**:
  Displays service area information while driving on the motorway. You can turn this function on and off.
- **Facility Types**:
  Touch this button and select the service area information display items you want to display.
- **Signposts**:
  When information is available, lane information similar to overhead road traffic signs is displayed at the top of the map. You can turn this function on and off.
- **Junction View**:
  When approaching an motorway exit or a complicated intersection, the map switches to a 3D display if the necessary information can be displayed.
- **Route Progress Bar**:
  Turns on the route progress bar which is displayed as a straight line to the left of the map. This shows the progress made on the current route. When a blue arrow is used to indicate position, the arrow continues to rise as you drive towards your destination. Waypoints and traffic conditions are displayed on the line.

■ Units and Formats

Sets display units and the date display.

- **Units and Formats**:

  Sets the units used by the program to measure distance. Voice guidance languages do not support all units displayed in the list.

  You can select to display the time in various international date formats.

Types of display units and date display settings:

- **Distance**:

  Switches the units used to display distance.

- **Fuel Economy**:

  Switches the units used to display fuel consumption.

- **Currency**:

  Displays the keyboard screen allowing you to enter the currency name. (For the keyboard, see “Using the keyboard” on page 86.)

- **Date Format**:

  Switches the units used to display the date.

- **Date Delimiter**:

  Switches the date delimiter.

- **Coordinate Display Format**:

  Switches the coordinate display format.

■ Trip Monitor

Contains useful information on the user's distance moved in the trip logs and path logs. You can save trip logs automatically by turning this setting on, or save them manually when arriving at a destination. You can view all logs on the trip monitor. Launch the trip monitor from the “Others” menu.

- **Enable Auto-Saving**:

  The trip monitor saves statistical data for the distance travelled. You can set it so that the route is saved automatically if you need a log after driving.

- Trip Database Size:

  This is not a button. This line indicates the current size of the trip database. This shows the total for all saved trip logs and path logs.

- **Save Track Log**:

  You can save path logs (positional order acquired from GPS receiver) in the trip log.

Glossary

2D/3D GPS reception

The GPS receiver uses signals from satellites to calculate its current position (the user's position), but to acquire a 3D position at least four signals are necessary, including altitude. The GPS device may not be able to acquire signals from four satellites as they are constantly moving and obstacles may block satellite signals. Although the accuracy decreases when only three signals can be acquired, and altitude data cannot be sent, the receiver can calculate a latitude and longitude GPS position. Only 2D reception is possible.

Route being navigated

The route currently being navigated. When a destination is set, the route will be continuously navigated until the destination is deleted, you arrive at the destination, or the software is closed. Also see “Route”.

City centre

The centre of the city/town is not the geographical centre of the city/town, but a location set by the cartographer. In towns and villages, this is usually the most important intersection, while in larger cities it is selected from multiple important intersections.

Colour design

The colour design used for the map and menu screens differs for daytime and nighttime. Each design has a different graphic setting, with 2D and 3D each having colours for roads, blocks, seas, and lakes, whilst shadow changes and shadows are displayed differently in 3D mode.

Daytime screen and nighttime screen designs for the map and menu are selected one at a time. The design changes automatically when day becomes night and night becomes day.

GPS accuracy

Various factors can contribute to a margin of error between the user's actual position and the position acquired from the GPS device. For example, signal delays in the ionosphere or reflections from objects around the GPS equipment, can influence the accuracy with which the GPS device can calculate the user's position.

Maps

Although this software uses digital maps, these are not simply digital conversions from printed maps. The 2D mode digital map represents roads in the same way as a traditional printed map, using colour classifications to show streets, roads, and changes in altitude.

In 3D mode, you can confirm differences in altitude for mountains, valleys, highland roads and so on, and display areas of cities using 3D landmarks and 3D images of buildings.

The digital map can be used interactively. You can zoom in and out (enlarge/reduce), tilt up and down, and rotate left and right. By using navigation that supports GPS, you can easily plan your route with the digital maps.

North Up Map Direction

North Up mode rotates the map so that North is always at the top of the map. You can use this direction with Find On Map and so on. Also see “Heads-up Map Direction”.

Route

The route is an ordered arrangement of the route events (the next change in the route - right or left turns, roundabouts, and so on), presenting them as they occur until you reach your destination. If there is one starting point, there must be at least one destination. On startup, the start point is the current position (or the last confirmed position). If you need to check a route that is not currently being driven, you can move the start point to wherever you want.

Heads-up Map Direction

Heads-up mode rotates the map so that the direction you are currently travelling is always at the top of the map. This is the default direction in 3D map display mode. Also see “North Up Map Direction”.

End-User License Agreement

1 The contracting parties

1.1 This Agreement has been entered into by and between Nav N Go Kft. (registered seat: 23 Berc utca, H-1016 Budapest, Hungary; Company reg.no.: 01-09-891838) as Licensor (hereinafter: Licensor) and You as the User (hereinafter: User; the User and the Licensor jointly referred to as: Parties) in subject of the use of the software product specified in this Agreement.

2 Conclusion of the Agreement

2.1 The Parties hereby acknowledge that this Agreement shall be concluded by implicit conduct of the Parties without signing the Agreement.

2.2 The User hereby acknowledges that following the lawful acquisition of the software product constituting the object of this Agreement (Section 4), any degree of use, installation into a computer or other hardware, installation of such hardware into a vehicle, touching of the “Accept” button displayed by the software during installation or use (hereinafter referred to as Use) shall mean that the User has accepted the terms and conditions of this Agreement as legally binding.

2.3 This Agreement shall by no means authorise use of the software product by those persons having unlawfully acquired the software product or having unlawfully installed it on a computer or in a vehicle.

3 Relevant laws and regulations

3.1 Any action related to this Agreement will be governed by the laws of the Republic of Hungary, with specific reference to Act IV of 1959 on the Civil Code and to Act LXXVI of 1999 on Copyrights shall apply.

3.2 The original language version of this Agreement is the Hungarian version. This Agreement has versions in other languages as well. In case of dispute the Hungarian version shall prevail.

4 Object of the Agreement and Termination

4.1 The object of this Agreement shall be the navigation guidance software product of Licensor (hereinafter referred to as the Software Product).

4.2 The Software Product shall include the operating computer program, its complete documentation, the map database pertaining thereto and any third-party content and services accessible through the Software Product (hereinafter: Database).

4.3 Any form of display, storage, coding, including printed, electronic or graphic display, storage, source or object code, or any other as yet undefined form of display, storage, or coding, or any medium thereof shall be deemed parts of the Software Product.

4.4 Error corrections, additions, updates used by the User following the conclusion of this Agreement shall also be deemed parts of the Software Product.

4.5 Your rights under this Agreement will terminate immediately without notice from Licensor if you materially breach it or take any action in derogation of Licensor's and/or its licensors' rights to the Software Product. Licensor may terminate this Agreement should any Software Product become, or Licensor's reasonable opinion likely to become, the subject of a claim of intellectual property infringement or trade secret misappropriation. Upon termination, you will cease use of, and destroy Software Product and confirm compliance in writing to Licensor.

5 Rights under copyright

5.1 Unless otherwise provided by law or contractual provisions, the Licensor is the sole and exclusive owner of all material copyrights vested in the Software Product.

5.2 Copyrights extend to the whole Software Product and to its parts separately as well.

5.3 The owner(s) of the copyrights of the Database forming part of the Software Product is (are) the natural person(s) or corporate entity(ies) listed in the Appendix to this Agreement or in the “About” menu item of the operating computer programme (hereinafter referred to as Database Owner). The user's manual of the Software Product includes the name of the menu option where all the owners of the Database items are listed. The Licensor hereby states that it has obtained sufficient usage and representation rights from the Database owners in order to utilise the Database, to offer it for utilisation and to transfer it for utilisation as set forth in this Agreement.

5.4 Pursuant to this Agreement, all rights vested in the Software Product shall remain in the ownership of the Licensor, except for those to which the User is entitled under law or by virtue of this Agreement.

6 Rights of the User

6.1 The User is entitled to install the Software Product into one hardware device (desktop, handheld, portable computer, navigation device), and to run and use one copy of the Software Product or a preinstalled copy of the Software Product thereon.

6.2 The User is entitled to make one backup copy of the Software Product. However, if the Software Product operates after installation without the use of the original media copy, then the original media copy shall be deemed to be a backup copy. In all other cases, the User is only entitled to use the backup copy if the original media copy of the Software Product has been ascertainably and unequivocally rendered unsuitable for its lawful and intended use.

7 Limitations of use

7.1 The User is not entitled

7.1.1 to duplicate the Software Product (to make a copy thereof);

7.1.2 to lease, rent or lend it or to transfer it to a third person for any reason;

7.1.3 to translate the Software Product (including translation (compilation) to other programming languages);

7.1.4 to decompile the Software Product;

7.1.5 to evade the protection of the Software Product or to modify, circumvent or obviate such protection through technological or by any other means;

7.1.6 to modify, extend, transform the Software Product (in whole or in part), to separate it into parts, combine it with other products, install it in other products, utilise it in other products, not even for the purpose of achieving interoperability with other devices;

7.1.7 apart from using the computer program, to obtain information from the Database as a part of the Software Product, to decompile the Database, to use, copy, modify, extend, transform the Database in whole or in part or the group of data stored therein, or to install it in other products or otherwise, utilise it in other products or to transfer it, not even with the aim of achieving interoperability with other products.

7.2 The User may only use the contents available through the Software Product and provided by third parties and the data received through the services provided by third parties (including but not limited to the traffic data received from the RDS TMC traffic information service) for his/her own personal benefit and at his/her own risk. It is strictly prohibited to store, to transfer or to distribute these data or contents or to disclose them in full or in part to the public in any format or to download them from the product.

End-User License Agreement

8 No warranty, limitation of responsibility

8.1 The Licensor hereby informs the User that although the greatest care was taken in producing the Software Product, given the nature of the Software Product and its technical limitations, the Licensor does not provide a warranty for the Software Product being completely error-free, and the Licensor is not bound by any contractual obligation whereby the Software Product obtained by the User should be completely error-free.

8.2 The Licensor does not warrant that the Software Product is suitable for any purpose defined either by the Licensor or the User, and does not warrant that the Software Product is capable of interoperating with any other system, device or product (e.g. software or hardware).

8.3 The Licensor does not assume any responsibility for damages incurred due to an error in the Software Product (including errors of the computer program, the documentation and the Database).

8.4 The Licensor does not assume any responsibility for damages incurred due to the Software Product not being applicable for any defined purpose, or due to the error or incompatibility of the Software Product with any other system, device or product (e.g. software or hardware).

8.5 The Licensor also draws the attention of the User to the fact that, when using the Software Product in any form of vehicle, observing the traffic regulations and rules (e.g. use of obligatory and/or reasonable and suitable security measures, proper and generally expected care and attention in the given situation, and special care and attention required due to the use of the Software Product) is the exclusive responsibility of the User. The Licensor shall not assume any responsibility for any damages occurred in relation to use of the Software Product in a motor vehicle.

8.6 By concluding the Agreement, the User shall, in particular, acknowledge the information stated in Section 8 above.

9 Sanctions

9.1 The Licensor hereby informs the User that, if the Licensor finds its rights under the Copyright Act to be breached, the Licensor may

9.1.1 seek judicial recognition of this breach;

9.1.2 demand that the breach cease and order the person in breach to refrain from continuing such actions;

9.1.3 demand that the person under breach give proper compensation (even by way of publicity at the expense of the person in breach);

9.1.4 claim the return of the increase of assets due to the breach;

9.1.5 demand the cease of the wrongful action and, demand restitution to its state before the breach was committed at the expense of the person in breach, and may demand the destruction of instruments and materials used to commit the breach as well as of the products created by the breach;

9.1.6 claim for damages.

9.2 The Licensor hereby also informs the User that the breach of copyrights and related rights is a crime under Act IV of 1978 on the Hungarian Criminal Code, which may be sentenced of two years in prison in basic cases and up to eight years in prison in aggravated cases.

9.3 Contents and services provided by third parties

The Licensor hereby excludes any liability of its own for the Database in the Software Product and for any content or service provided by a third party by using the Database. The Licensor does not warrant the quality, suitability, accuracy, fitness for a specific purpose or territorial coverage of the product or service or the availability of the service, and it specifically excludes any liability for the suspension of the service, and any damage arising in relation to the service or for complete cancellation of the service.

The User hereby acknowledges that the contents and services provided by third parties may only be used at the risk of the User and for the personal benefit of the User.

9.4 The parties hereby agree that the courts of the Republic of Hungary will have exclusive jurisdiction to rule on any disputes arising in connection with this Agreement.

10 Anonymous date collection

10.1 The User hereby acknowledges that the Software Product may collect and store data connected to the usage of the Software Product by the User (e.g. movement/route date, user interaction data). Such data collection functions may be disabled or enabled by User any time from within the corresponding menu. The collected data is connected to the device type identifier of the device running the Software Product and not associated in any way with any personal information of the User itself.

10.2 The collected data may be uploaded to licensor's database and used exclusively of the purpose of enhancing and improving the features and services of the Software Product and the Databases. Uploading is executed through licensor's special software or by the User navigation device, and the upload may be enabled or disabled by User. After successful data upload, the collected data is deleted from the Software Product storage media.

10.3 Collected data is transmitted, stored and handled anonymously and no connection of the data with the User shall be established by Licensor or any third party.

Further Information

Display Connection Status Information

You can check the connection between the unit and the vehicle, such as GPS information, parking signals and so on.

■ Display Connection Status Information

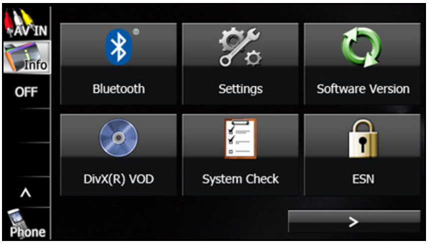
1 Press AUDIO.

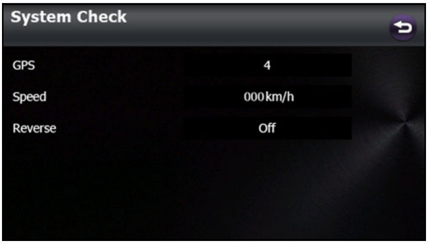
2 Touch Info.

- If Info is not displayed, touch ∨.

3 Touch System Check.

- Displays the connection status information screen.





System Check

GPS 4

Speed 000km/h

Reverse Off

- Connection status information screen

Information	Content	
GPS information	Displays the number of GPS satellites currently sending information.	
Parking signal	On	When the parking brake is applied.
	Off	When the parking brake is not applied.
Reverse signal	On	When shifting into reverse.
	Off	When shifting into another gear.

Accuracy & error calculation

■ Regarding Precision Accuracy

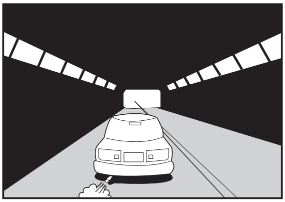
Since the GPS satellites are controlled by the US Department of Defense they do have a very high level of accuracy, however a multipath due to reflections from buildings and so on could cause errors to occur.

■ Regarding the Properties of the GPS Electro-Magnetic Waves and Signal Reception

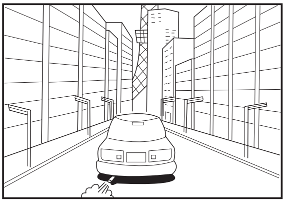
If there are any obstacles between the GPS antenna and the GPS satellite, electromagnetic-waves cannot be received from the satellite.

It is also impossible to use GPS positioning in the following locations as at least three simultaneous electromagnetic-waves are necessary to take measurements.

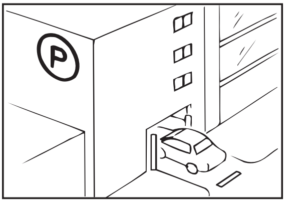
Also, if there are any obstacles around the GPS antenna, electromagnetic-waves cannot be received from the satellite.



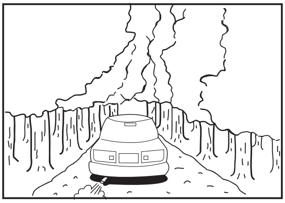
● In tunnels



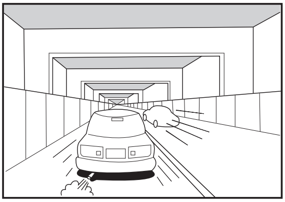
● If the immediate area is enclosed by large objects such as skyscrapers



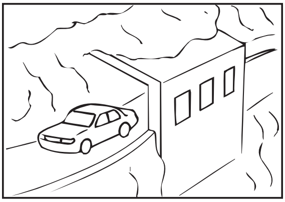
● In underground buildings and indoor parking lots



● In places with a lot of overgrown trees and so on



● Under elevated roads



● Roads at the base of cliffs and caves

ATTENTION

- Because the GPS satellite is in orbit around the earth, the reception status for the electromagnetic waves changes depending on their position at that point in time, even if your vehicle is in the same place. Also, electromagnetic-waves from satellites near the horizon can be easily influenced by surrounding obstacles.

Further Information

- At times, satellites under the control of the US Department of Defence will intentionally drop positioning accuracy.

■ Regarding Errors in Current Position Display

To pinpoint the current position, the unit uses information from GPS satellite electromagnetic waves. If any of these contain errors, the current position may not match the actual position.

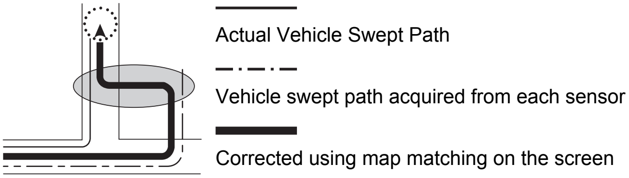
■ Regarding Vehicle Position Detection Correction Using Map Matching

Map matching is a method of comparing information on the current position acquired by GPS and so on, with the road driven up to that point, and correcting the current position based on the most likely road.

This unit uses information on the current position combined with independent navigation and satellite navigation and matches it to the shape of the road to create the correction.

However, as it cannot avoid the error margins at the current position, the current position may shift away from the actual position even when correcting using map matching.

Also, the vehicle marker may shift if the map data and the shape of the road being driven on differ.

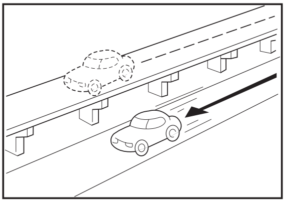

Actual Vehicle Swept Path
Vehicle swept path acquired from each sensor
Corrected using map matching on the screen

ATTENTION

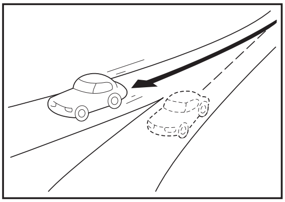
Because it takes a short time for operations to stabilise just after turning on the unit, the vehicle mark may not immediately match the vehicle as it moves. After driving for a while, operations stabilise, and the marker should match the actual driving position.

■ Regarding the Accuracy of the Current Position and Route Navigation

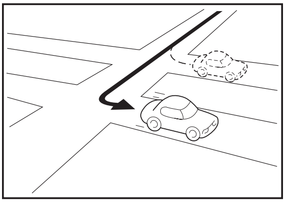
As in the following images, an accurate display of the current position or route navigation may not be provided, however this is not an indication of a malfunction in the unit, but is due to road conditions or driving conditions.



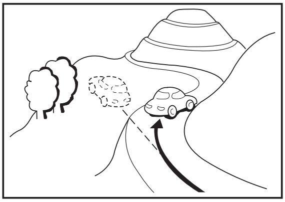
- Shows the current position on roads running in parallel.



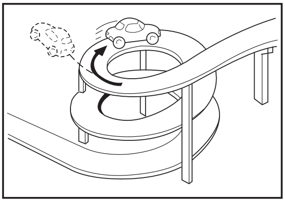
- Shows the current position on the other road when there is a narrow fork in the road.



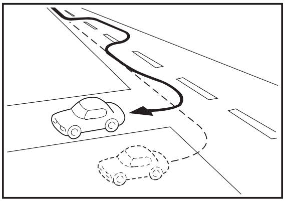
- Shows the current position on the road ahead or behind when turning right or left.



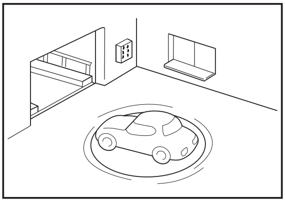
- Shows the current position when travelling up a steep hill.



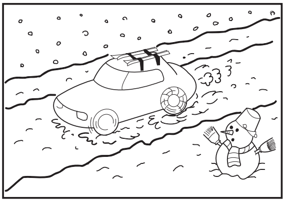
- Shows the current position if the road continues to curve around on itself in the same direction.



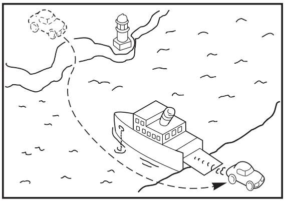
- Shows the current position after a sudden change in lanes.



- Shows the current position when the vehicle is on a parking garage turntable and the ACC is off.

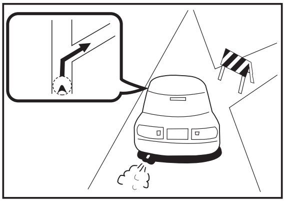


- Shows the current position when driving on snowy roads where the vehicle may slip easily, or when driving with snow chains.

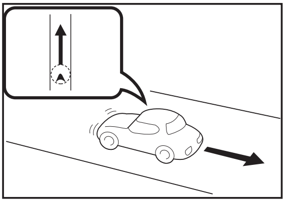


- Shows the current position in the last confirmed position before moving when using another means of transport, such as a ferry, until the GPS can determine the new position.

Further Information



- It actually navigates through roads that cannot be driven (no entry and so on).



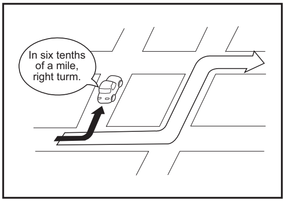
- Shows the current position when reversing.

■ Regarding Roads and Place Name Data

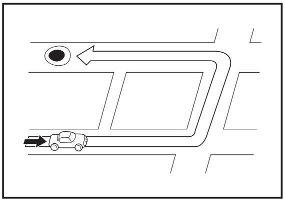
Because road and place names may change after the map data has been created, there may be times when road and place names do not match.

When no information is available in the map data, function such as display of road names, searching for facilities, and route guidance cannot be used.

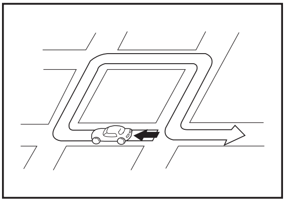
■ Regarding Route Navigation



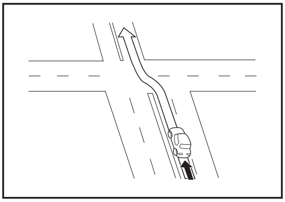
- It may deviate from the route navigation when there is a turn at an intersection etc., and a mistake in the voice navigation.



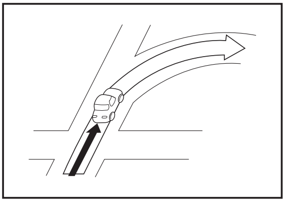
- When searching for the route, it may take the long way around.



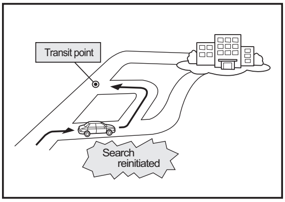
- The route may need you to make a U-turn during navigation.



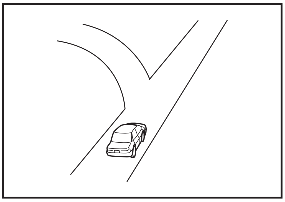
- When driving on a straight road, information may be displayed indicating that you should go straight ahead.(When the intersection shape is not clear and so on.)



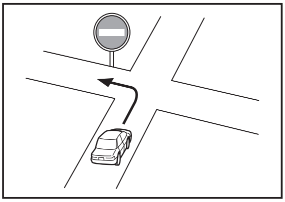
- The navigation may not indicate that the road curves at an intersection.



- The navigation may guide you back to a waypoint if you search for the route again after passing the waypoint and are heading to your destination.



- Many place names may be displayed when navigating a district.



- Always drive by following the actual traffic regulations.

Route search complete

- When searching for a route, it may not be displayed quick enough for the next left or right turn.
- Performing a new search while travelling at high speeds may take some time.
- The route may not change even after performing another search.
- When isolated locations or roads with no surrounding available information are set as the current position/destination, you may not be able to search for a route.
- A route may not be displayed when the current position is close to the destination.
- Even if you select toll roads as a priority, the route may not guide you through a toll road.

  In a similar way, toll roads may be displayed even if you prioritise other roads over toll roads.

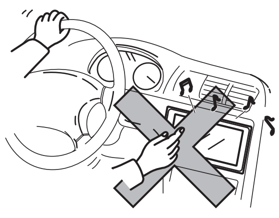
  (When it is possible to select a toll road or a normal road to create the route, priority is given to the user's toll road preference - use toll roads, or avoid toll roads.)

Before Use

⚠ CAUTION

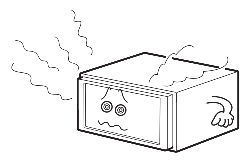
- Be very careful and pay full attention to safety when operating the audio controls while driving. Otherwise accidents may occur. Also, be sure to set the volume so that you can still adequately hear sounds outside the vehicle.

  Improper use may result in a traffic accident.



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

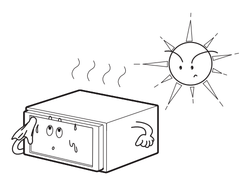
  Exercise caution regarding the temperature inside the vehicle.



- The temperature inside the vehicle can increase during hot weather.

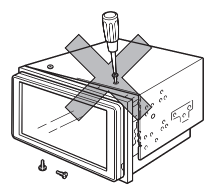
  Wait for the temperature inside the vehicle to drop before using this receiver.

  Otherwise damage may result.



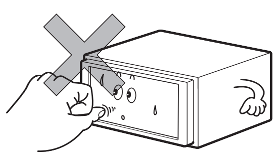
- Do not disassemble or modify this receiver.

  The main unit has a precisely designed structure, so consult your retailer in the event any unsatisfactory performance is observed.



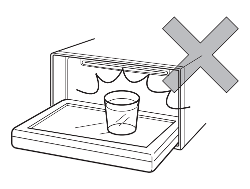
- Do not apply excessive force to the monitor.

  Damage could result.



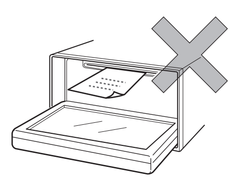
- Do not leave the monitor in tilt position when you are not using it.

  Otherwise, it may be damaged.



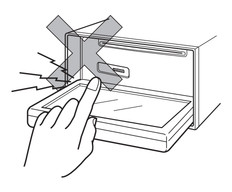
- Do not insert any objects other than discs into the disc slot.

  Damage could result.



- Be careful not to get your fingers or other objects caught behind the monitor when it is being retracted into place.

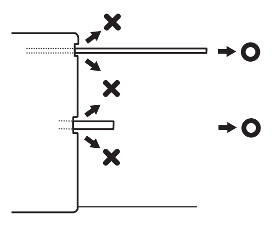
  Interference can cause an injury or damage the main unit.



- When removing a disc or “SD memory card” from this receiver, remove it horizontally.

  Do not pull up or press down forcibly while removing.

  Improper removal may result in the disc becoming scratched, causing the receiver to emit unusual noises. Improper removal of the “SD memory card” may damage it.



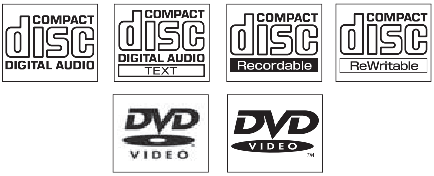
Before Use

About Discs

ATTENTION

- In cold or rainy weather, just as the interior glass surface becomes fogged, dew (water condensation) may also settle on the receiver. When this occurs, disc playback may become intermittent or impossible. Dehumidify the air in the vehicle for a while before resuming playback.
- If a problem occurs, the player function stops automatically to protect its internal parts. If the player does not operate even when you follow the on-screen messages, the player may have failed. Consult the dealer you purchased it from.
- Playback may be intermittent when the player is subjected to severe vibrations while travelling over a rough surface.
- Please do not use a commercially available lens cleaner because it may cause damage to the pickup of the player.

■ Formatting discs



DVD is a trademark of DVD Format/Logo Licensing Corporation.

- An audio disc or DVD video disc bearing one of the marks above can be played.

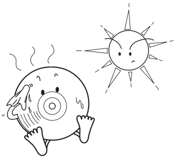
  When using a DVD±R/RW (DVD±Recordable/ReWritable) disc, note that only the disc whose contents were recorded in the video mode can be played. Discs whose contents were recorded in the video recording (VR) mode and audio mode cannot be played.
- It is possible that a DVD±R/RW (DVD±Recordable/ReWritable) disc will not play on this receiver due to the characteristics of the recording or special disc, scratches, dirt or deterioration caused by long storage in the vehicle. Also, a DVD±R/RW disc that has not yet been finalised cannot be played. It may not be possible to play a disc that has been recorded on a personal computer, depending on the application setting and the environment.
- It is possible that a CD-R (CD-Recordable) or CD-RW (CD-ReWritable) disc will not play on the main unit due to the characteristics of the recording or special disc, scratches, dirt or deterioration caused by long-term storage in the vehicle. Also, a CD-R or CD-RW disc that has not yet been finalised and a CD-R or CD-RW disc recorded in UDF format cannot be played.
- The CD-TEXT function can be used only for CD-text CDs available on the market. Characters written on a CD-R and CD-RW discs may not be displayed correctly.

- Do not use a CD and a See Through disc having a transparent or semi-transparent recording area as they may fail to load or unload or play their contents.
- A Copy Control CD (CCCD) may not be played as it does not meet the official CD Standard.

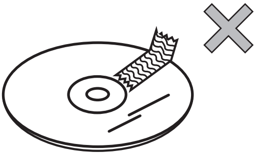
COPY CONTROL CD

■ Handling discs

- Do not place a disc in direct sunlight; store each disc in their protective cases. Otherwise, discs may warp and fail to play.

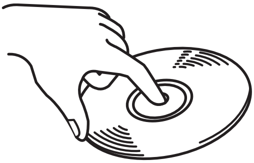


- Do not apply paper-based tape to either the recording side or label side of a disc. Damage could result.

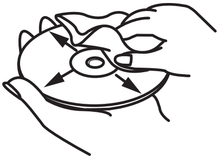


- Do not use cracked or badly warped discs. Damage could result.

- Do not touch the recording area (the rainbow coloured) side of a disc. Otherwise, the disc may become dirty and playback may be intermittent.



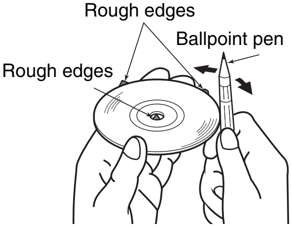
- If you play a dirty disc, the disc surface may be scratched and its play may be intermittent. Use a commercially available compact disc cleaner to clean the CD, wiping gently from the centre to the edge.



Before Use

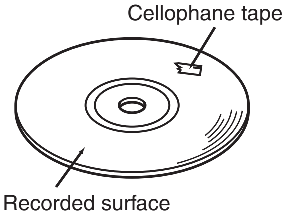
■ Brand new CDs

- ● You may notice that some brand new discs are rough around the centre hole or outside. In this case, remove burrs or flakes around the edge using the side of a ballpoint pen before using a new disc. Not doing so may result in burrs or flakes becoming stuck on the recording side, preventing playback.



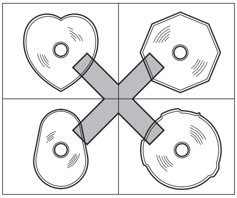
■ Rental discs

- ● Do not use a rental disc with glue or remnants of adhesive tape or labels. They may cause the disc to get stuck inside or damage the main unit.



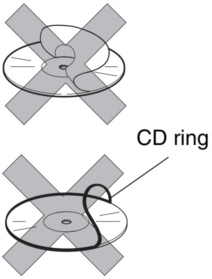
■ Irregularly-shaped CDs

Specially-shaped or octagonal CDs, such as heart-shaped CDs cannot be played. Do not play this type of disc, even with an adapter. Damage to the player could result.



■ Disc accessories

- ● Do not use accessories (stabilisers, protective seals, laser lens cleaners, etc.) sold for improving sound performance or protecting CDs. The changes in CD thickness or outside dimensions made by these accessories may cause problems in the player.
- ● Please be sure NOT to attach any ring-shape protector (or other accessory) to your discs. Although these protectors are commercially available and said to protect discs and improve sound quality (and anti-vibration effect), in normal use they can do more harm than good. The most common problems are Insert/Eject related problems and no playback problems due to the protector ring coming off in the disc mechanism.



USB

⚠ WARNING

Either place the USB Memory and USB Memory connection cable somewhere where they will not interfere with driving, or temporarily secure them in a location where they are not in the way. They could impede driving and cause a traffic accident.

⚠ CAUTION

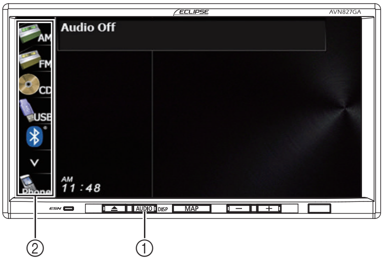
- Be careful not to touch the USB connector or the terminal for the USB memory connection cable with your hands or metal objects.
- Do not connect, operate or remove the USB Memory while driving.
- Do not remove the USB Memory or switch the ignition switch to ACC OFF when the USB Memory is being accessed (playback). This may damage the data.
- The USB Memory may not operate sometimes when the connection method is “ON”.
- We recommend that you backup your data in case you accidentally delete it.
- Depending on the USB Memory used (non-brand products, USB Memories which have been damaged due to external factors), there may be cases where connection is not possible, or where the operation is unstable.
- The USB connector has a protective cap. Even if the cap is ajar it has a hinge to prevent it from being removed altogether. However, if the cap is pulled with excessive force, the cap may become detached along with the hinge. It is designed to do this and should not be considered as a fault.

ATTENTION

When the USB mode is switched to other modes and then switched back again, the device will return to the music file that was last played.

Switching the Audio Source

Switching the Audio Source

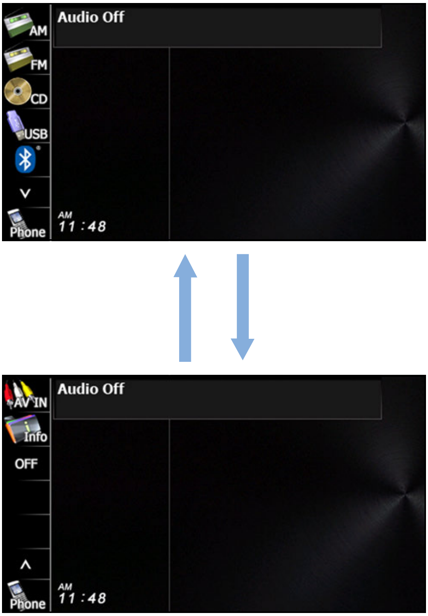


① AUDIO button

② Audio Source switches

1 Press AUDIO.

2 Touch ∨ or ∧ to scroll the screens.



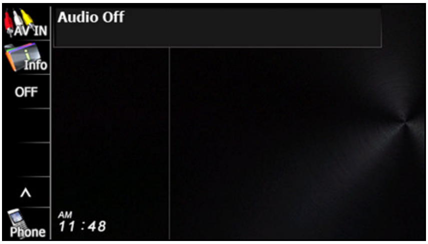
3 Select the audio mode that you want to use.

Displaying the Audio Operations Screen

1 Press AUDIO.

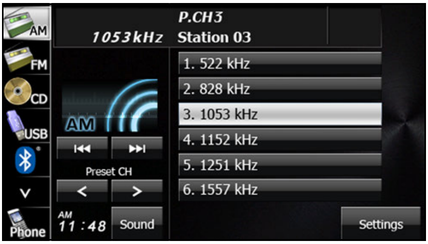
Stopping the Audio Mode

1 Touch OFF.

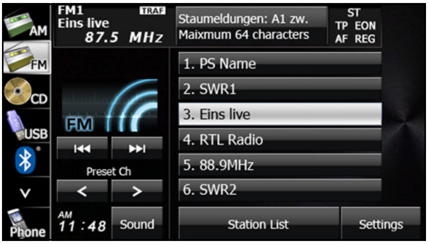


Source Operations Screen

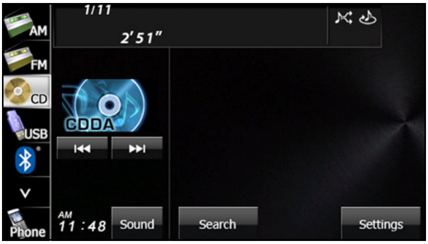
The operations screen for the audio sources are as follows.



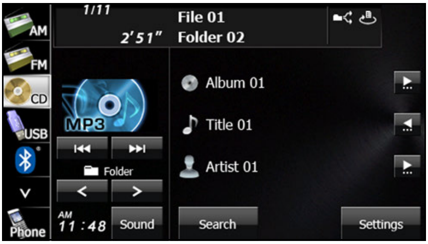
- ● Radio (AM) operations screen



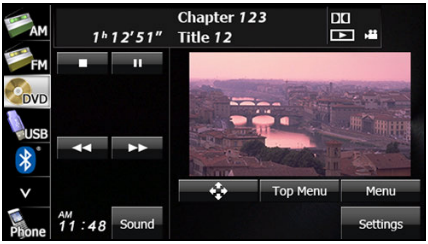
- ● Radio (FM) operations screen



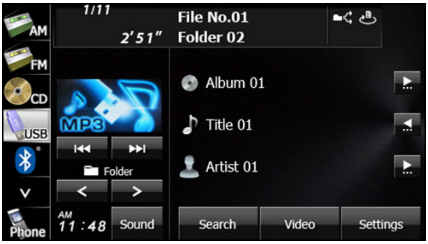
- ● CD player operations screen



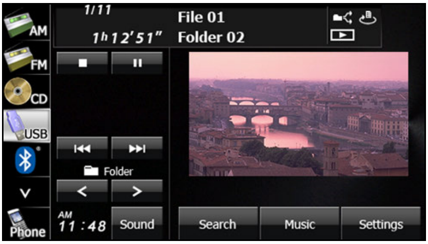
- ● MP3/WMA operations screen



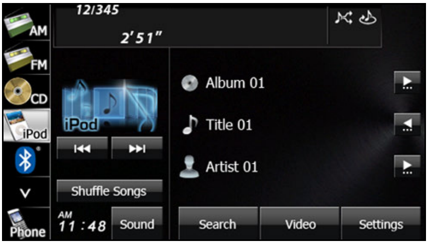
- ● DVD player operations screen



- ● USB music file player operations screen

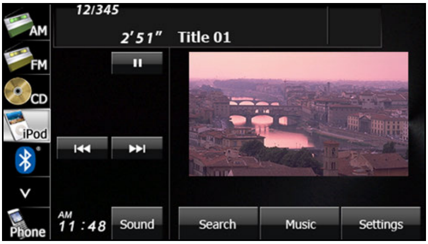


- ● USB video file player operations screen

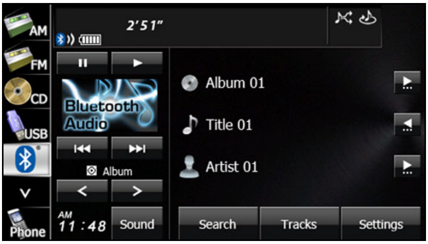


- ● iPod music operations screen

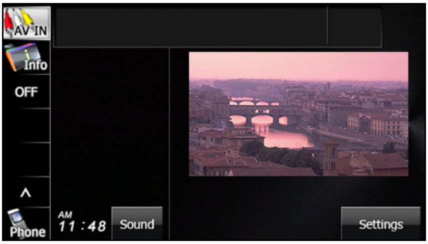
Source Operations Screen



- iPod video operations screen



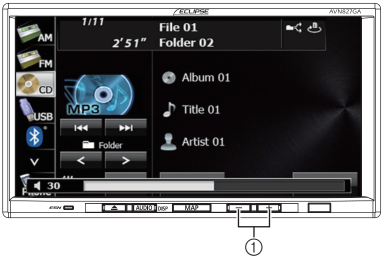
- Bluetooth audio operations screen



- VTR operations screen

Volume Control

Main Volume Control



① VOL button

1 Press [−] or [+].

- Press to [−]:
  Volume down
  Press to [+]:
  Volume up

ATTENTION

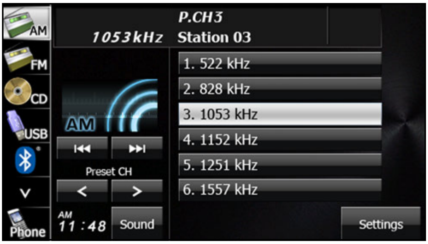
- Adjust to a volume level that will not prevent safe driving.
- You can adjust the level from 0 to 80. Max is displayed when the volume is 80.
- The volume may change when you switch the audio source. Adjust the volume to a level appropriate for the audio source you select.

Displaying the Sound Settings Screen

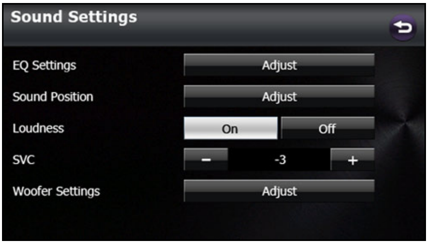
When you switch to the Sound Settings screen from any of the Audio operations screens, the following operations are available.

- Adjusting the sound quality
- Adjusting the audio balance
- Setting the loudness
- Setting the source volume control
- Adjusting the woofer

1 Touch Sound on any of the audio operations screens.



2 Touch the switch that you want to set.



Sound Settings

EQ Settings Adjust
Sound Position Adjust
Loudness On Off
SVC − -3 +
Woofer Settings Adjust

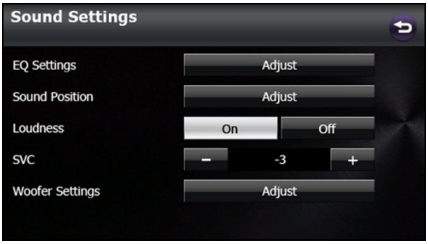
Volume Control

Adjusting the Sound Quality

You can adjust the sound quality from the low band to the high band.

■ Adjusting the sound quality

1 On the Sound Settings screen, touch **Adjust** in EQ Settings.


Sound Settings

EQ Settings: Adjust

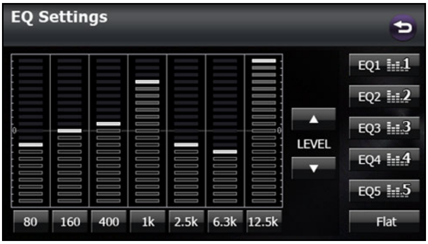
Sound Position: Adjust

Loudness: On / Off

SVC: − -3 +

Woofer Settings: Adjust

2 Touch the sound band that you want to adjust.


EQ Settings

3 Touch **▲** or **▼**.

- When you touch and hold, the value changes continuously but stops at the centre value. Touch **▲** or **▼** again to restart.
- You can also adjust to the desired level by touching the screen.
- The maximum adjustment is +10 and the minimum adjustment is -10.
- To reset the sound quality, touch **Flat**.
- After completing the adjustment, touch **↩** to save the adjusted settings and return to the previous screen.

■ Saving the sound quality

You can save the adjusted sound quality settings.

1 Adjust the sound quality.

2 Touch any switch from **EQ1** to **EQ5** for 2 seconds or more.

- Values cannot be saved for **Flat**.

■ Using a preset sound quality

1 On the Sound Settings screen, touch **Adjust** in EQ Settings.

2 Touch any switch from **EQ1** to **EQ5** to activate the corresponding preset sound quality.

- To reset the sound quality, touch **Flat**.

■ Resetting the EQ curve

You can return the adjusted value for the currently stored equaliser to its initial value.

1 Touch Flat for 2 seconds or more.

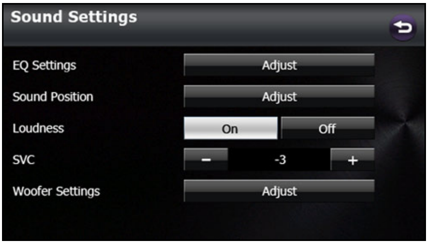
- The adjusted values for the stored EQ1 to EQ5 are returned to their initial values.

Adjusting the Audio Balance

■ Adjusting the positioning selector

The sound can be localised to match the number of passengers and their location. The optimal acoustical space can be created by adjusting the volume balance forward, back, left, and right to emphasise the sound from hard-to-hear speakers or by setting a Vehicle Type.

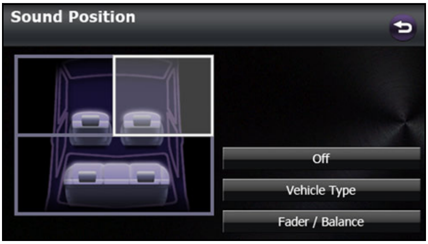
1 On the Sound Settings screen, touch Adjust in Sound Position.



Sound Settings

EQ Settings: Adjust
Sound Position: Adjust
Loudness: On / Off
SVC: − -3 +
Woofer Settings: Adjust

2 Touch the seat that you want to set.



Sound Position

- A frame appears around the set position. Touch again to cancel the setting.
- 4 positions are available for setting: the front right seat, the front left seat, both front seats, or the rear seats.
- Touch Off to cancel all the settings.
- After completing the adjustment, touch ⮌ to save the adjusted settings and return to the previous screen.

ATTENTION

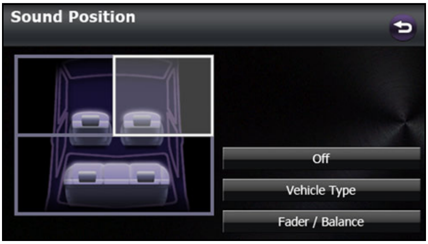
You cannot set positioning selector adjustments at the same time as the volume balance.

Volume Control

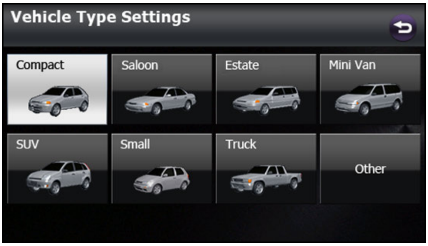
■ Adjusting the Vehicle Type

The optimal acoustical space for the vehicle can be created by setting the Vehicle Type.

1 On the Sound Position screen, touch Vehicle Type.



2 Touch the Vehicle Type that you want to set.

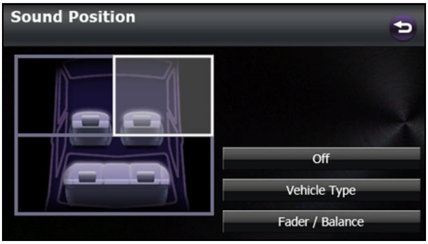


- After completing the adjustment, touch ↩ to save the adjusted settings and return to the Sound Settings screen.

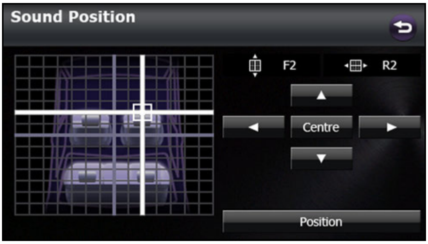
■ Adjusting the audio balance

You can adjust the sound balance from front to rear and left to right.

1 On the Sound Position screen, touch Fader/Balance.



2 Touch the balance point that you want to use.



- To fine adjust, touch any of the balance adjusting switches ▲, ▼, ◀ or ▶ to change the value by 1 step. When you touch and hold one of the balance adjusting switches ▲, ▼, ◀ or ▶, the value changes continuously but stops at the centre value. To continue to change the balance, touch one of the balance adjusting switches again.
- You can also adjust to the desired balance by touching the screen.
- Touch Centre to cancel the Fader/Balance setting and return to the centre value.
- After completing the adjustment, touch ↩ to save the adjusted settings and return to the Sound Settings screen.

ATTENTION

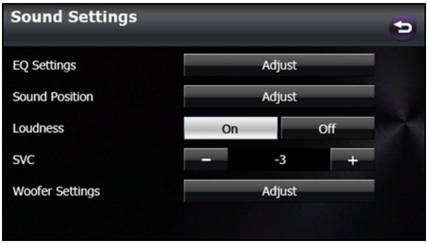
You cannot set the volume balance at the same time as positioning selector adjustments.

Setting Loudness

You can correct for the lack of satisfaction at high and low frequencies when listening at low volume to give better modulated sound.

1 On the Sound Settings screen, touch **On** or **Off** in Loudness.

- After completing the adjustment, touch **↩** to save the adjusted settings and return to the previous screen.



Sound Settings

EQ Settings: Adjust

Sound Position: Adjust

Loudness: On / Off

SVC: − -3 +

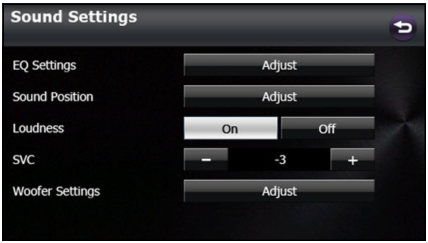
Woofer Settings: Adjust

Volume Control

Setting the Source Volume Control

1 On the Sound Settings screen, touch **-** or **+** in SVC.

- You can set a volume difference for each audio mode. The differences between the volume of the FM mode in the initial setting, which is used as reference, and the volume levels set for each audio mode are saved.



Sound Settings

EQ Settings Adjust

Sound Position Adjust

Loudness On Off

SVC − -3 +

Woofer Settings Adjust

- After completing the adjustment, touch ↩ to save the adjusted settings and return to the previous screen.

Setting example:

Audio mode	FM	AM	CD	USB	BT-Audio
Initial value (Volume level)	Reference (40)	0 (40)	0 (40)	0 (40)	0 (40)
SVC setting (Volume level)	Reference (40)	SVC setting value +15 (55)	SVC setting value -10 (30)	SVC setting value +5 (45)	SVC setting value -5 (35)
When volume level is adjusted from 40 → 45 in FM mode	45	55 → 60	30 → 35	45 → 50	35 → 40
When volume level is adjusted from 35 → 60 in CD mode	40 → 70	60 → 85*	60	50 → 75	40 → 65
When volume level is adjusted from 80 → 20 in AM mode	70 → 5	20	60 → 0*	75 → 10	65 → 0
When volume level is adjusted from 10 → 35 in USB mode	5 → 30	20 → 45	0 → 20	35	0 → 25

* You can set the volume level in a range of 0 (minimum) to 80 (maximum). Set the volume level differences in a range of -10 to +20.

Sub-Woofer Settings

You can adjust the audio output when a sub-woofer is connected.

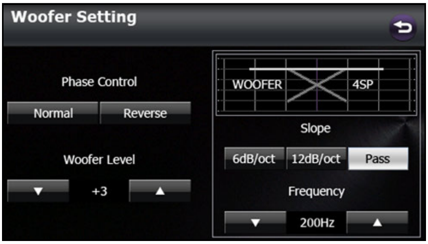
■ Switching the phase

The sound outputted from the sub-woofer includes the same frequency bands as the sound from the front/rear speakers, and cancellation can occur under some in-vehicle conditions. Switch the phase of the sub-woofer to prevent this phenomenon. You can set the phase in according to the in-vehicle conditions.

1 On the Sound Settings screen, touch Adjust in Woofer Settings.

2 Touch Normal or Reverse in Phase Control.

- Normal:
  Sets the output timing of the speakers and sub-woofer to be the same.
- Reverse:
  Staggers the output timing of the speakers and sub-woofer.
- After completing the adjustment, touch ↩ to save the adjusted settings and return to the previous screen.



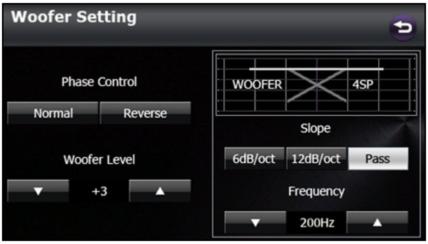
■ Setting sub-woofer level

You can adjust the sub-woofer output level.

1 On the Sound Settings screen, touch Adjust in Woofer Settings.

2 Touch ▲ or ▼ in Woofer Level.

- You can set the output at any of 13 output levels (+6 to -6).
- After completing the adjustment, touch ↩ to save the adjusted settings and return to the previous screen.



Volume Control

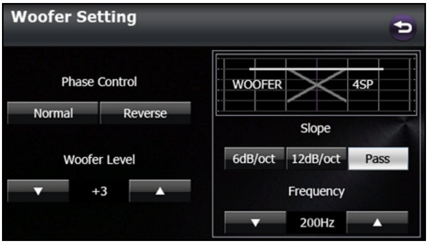
■ Setting low pass filter

The low pass filter cuts out frequencies higher than the set frequency (high-band frequencies) and allows lower frequencies (low-band frequencies) to pass.

1 On the Sound Settings screen, touch Adjust in Woofer Settings.

2 Touch 6dB/oct, 12dB/oct or Pass in Slope.

- When 6dB/oct or 12dB/oct is selected, touch the frequency ▲ or ▼ button to adjust the frequency (63 to 200).
- After completing the adjustment, touch ↩ to save the adjusted settings and return to the previous screen.

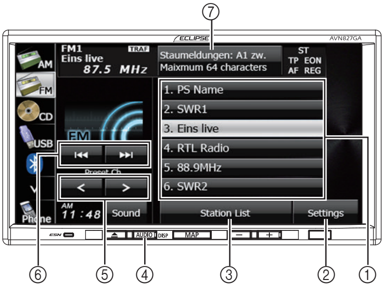


Woofer Level +3

Frequency 200Hz

Using the Radio

Using the Radio



① Preset switch

② Settings switch

③ Station List switch*

④ AUDIO button

⑤ Preset CH up/down switches

⑥ Tune up/down switches

⑦ Text Title switch*

* Displayed only in FM radio mode.

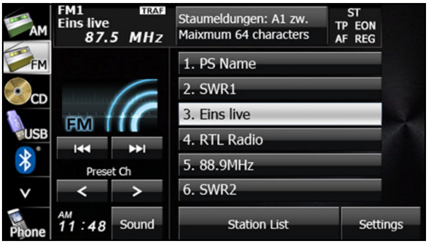
ATTENTION

Some of the functions may not be available when vehicle is in motion.

■ Listening to the radio

1 Press AUDIO.

2 Touch AM or FM.



ATTENTION

In FM radio mode only, “ST” will be displayed at the upper right of the screen when you have received a stereo broadcasting station. In addition, when the setting of RDS (TP, AF, REG, EON) is turned “On”, its indication is displayed at the upper right of the screen. (See page 184)

■ Tuning a station

Manual tuning

1 Touch ⏭ or ⏮.

- ⏭:
  Move up 1 step.
  ⏮:
  Move down 1 step.

Auto tuning

1 Touch ⏭ or ⏮ for 1 second or more.

- The tuner moves automatically to the station closest to the frequency currently displayed on the screen and stops. To cancel auto tuning while it is operating, touch the switch again.

ATTENTION

- In some cases, it is difficult to maintain the optimum reception because the position of the antenna on the vehicle is always changing (relative to the station antenna), and so the strength of the received wireless signal changes continuously. Also, obstructions such as the natural topography or the pillars of signboards may affect the reception.
- Auto tuning may not be possible in areas where the received signal is weak.

Using the Radio

Selecting from a preset switch

1 Touch a preset switch saved in the memory.

- The saved preset channel is selected and the corresponding station is received.

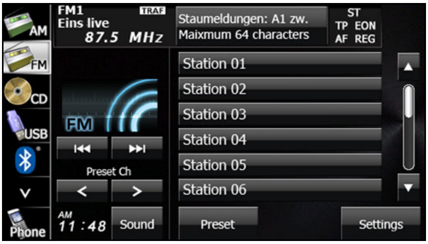
Selecting from the station list

In FM radio mode only, you can select from the station list.

1 Touch Station List.

2 Touch the station to which you want to listen.

- If there are more pages, touch ▲ or ▼ to scroll the pages.



Selecting a radio band

In FM radio mode only, you can select the reception band.

1 Press AUDIO.

2 Touch FM.

- Touch FM to change the reception band in the following order.

FM1 → FM2 → FM3

- The band currently being received is displayed at the top left of the screen.

Saving a station

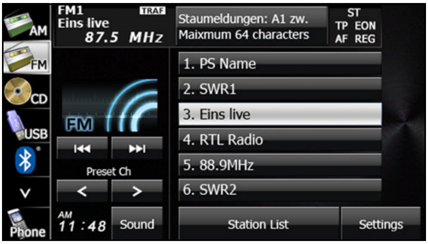
You can save radio stations manually or automatically.

Manual saving

1 Select the station that you want to save using manual tuning or auto tuning.

2 Touch the preset switch that you want to use for 2 seconds or more.

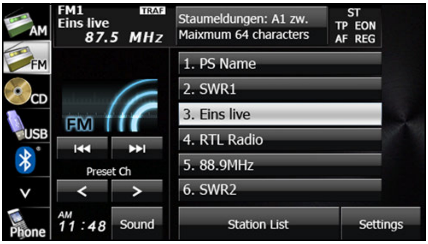
- The selected station is saved and displayed on the preset switch.



- To manually set additional stations for the remaining preset channels, repeat this procedure for each channel.
- You can set 6 stations each for FM 1, 2 and 3, and 6 stations for AM, making a total of 24 stations.

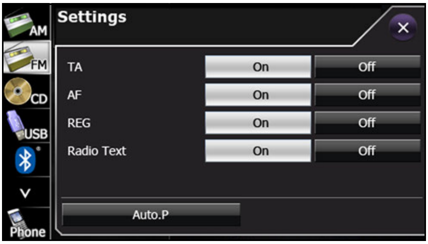
Automatic saving

1 Touch **Settings**.



2 Touch **Auto.P** for 2 seconds or more.

- To cancel “Auto.P” while it is operating, touch the switch again.
- The tuner searches for stations starting from the lowest frequency and progressing toward higher frequencies. Once stations with sufficiently strong reception are found, the stations will be stored under FM3 preset buttons [1] to [6]. When this process is complete, a beep sound is heard, and the reception of the station that was stored last continues.



ATTENTION

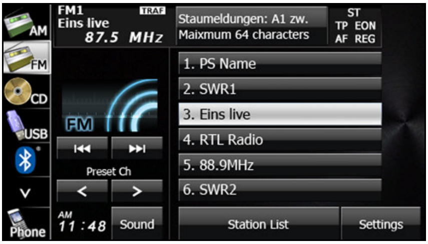
- You can select a station in a one-touch operation simply by touching a preset switch ([1] to [6]). The frequency of the selected station is displayed.
- When the new stations are set in the memory, the stations that were previously set are deleted.
- If the number of receivable stations is less than six, the remaining switches are become blank.
- Radio text title and FM radio station name is subject to the availability of the FM radio station in the area.

■ Displaying title information

In FM radio mode only, album name, track name, artist name, and genre name of the song being broadcasted and the received RDS (TP, TA, PI, PS) information are displayed in the text title switch.

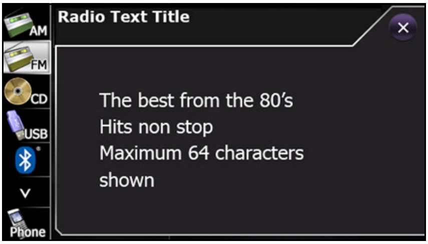
Touching the text title switch enables to display the details of the title information.

1 Touch the text title switch.



Using the Radio

2 Touch ✕ to return to the previous screen.



Radio Text Title

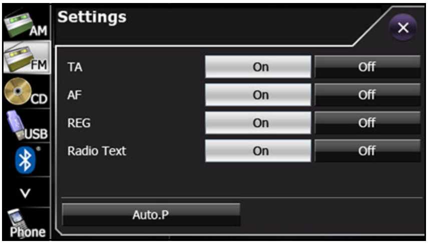
The best from the 80's
Hits non stop
Maximum 64 characters
shown

Setting the text title display

You can set whether to display or hide the text titles.

1 Touch **Settings**.

2 Touch **On** or **Off** in Radio Text.



Settings

TA	On	Off
AF	On	Off
REG	On	Off
Radio Text	On	Off

- Touch ✕ to return to the previous screen.

■ Using RDS (Radio Data System)

RDS (Radio Data System) can receive traffic information via FM radio. When the reception is poor, the system searches automatically for better reception, enabling the user to listen to the same program continuously.

ATTENTION

REG settings can only be changed while the AF function is turned “On”.

TP (Traffic Program)/TA (Traffic Announcement) setting for receiving traffic information

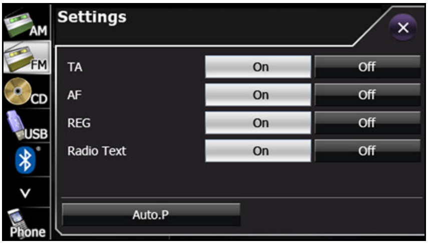
You can receive traffic information manually or automatically with the TP/TA function. When the TA function is on and a TP station that can be used is available, “TRAF” is displayed on the screen and the corresponding TP station is received. If the TP station cannot be received, the automatic TP station search starts.

When the traffic information starts, the audio volume is muted automatically and you can hear the received TA information.

When this function is on, “TP” is displayed on the screen.

1 Touch **Settings**.

2 Touch **On** or **Off** in TA.



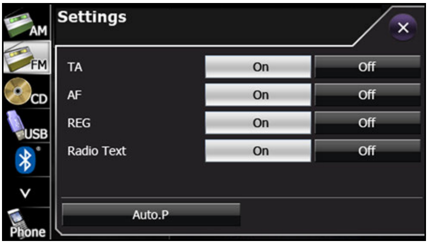
- Touch **✕** to return to the previous screen.

AF (Alternative Frequency) setting

When the AF function is on, the frequency switches automatically to the one with the best reception for the station to which you are currently listening. In some locations, stations may broadcast the same programs at different frequencies. When this function is on, “AF” is displayed on the screen.

1 Touch **Settings**.

2 Touch **On** or **Off** in AF.



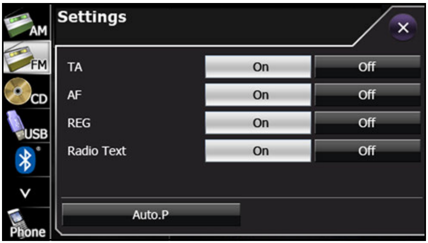
- Touch **✕** to return to the previous screen.

REG (Regional) setting

When the REG function is on, you can listen to the same program continuously. When this function is operating, “REG” is displayed on the screen.

1 Touch **Settings**.

2 Touch **On** or **Off** in REG.



- Touch **✕** to return to the previous screen.

ATTENTION

The REG settings can be changed only when the AF function is set to “On”.

EON (Enhanced Other Network) system

If the current TP station is not broadcasting the traffic information, or the signal weakens after the TA is turned on, the system automatically searches for other TP stations broadcasting the traffic information. When this function is operating, “EON” is displayed on the screen.

Once the current traffic information broadcast is finished, the system returns to the previous TP station.

Using the Radio

Voice guidance volume setting

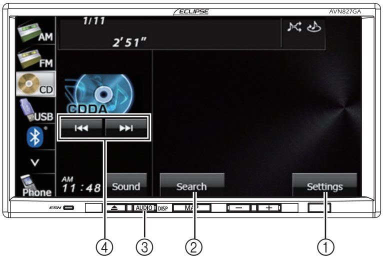
You can adjust the volume for the TA.

1. Press − or + while receive the TA.

- You can adjust the volume level between 0 and 80 (Max).
- The adjusted volume level is saved, and when the TA is received the next time, it is output at this volume.

Using the CD Player

Using the CD Player



① Settings switch

② Search switch

③ AUDIO button

④ Track up/down and fast forward (fast reverse) switches

ATTENTION

Some of the functions may not be available when vehicle is in motion.

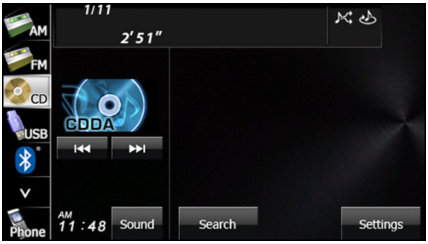
■ Listening to a CD

Insert a CD into the disc slot, and it will start playing.

1 Press AUDIO.

2 Touch CD.

- ● The playback starts.



ATTENTION

- ● Playback may be intermittent when there is a scratch on the CD or when the recorded side is dirty.
- ● If track titles and other data are recorded in the CD-Text format, they can be displayed.
- ● It may not be possible to display the CD-Text of CD-R/RW discs.

Using the CD Player

■ Selecting a track

You can cue the track to which you want to listen.

1 Touch ▶▶| or |◀◀.

- ▶▶|:

  Advance to the next track.

  |◀◀ (touch once):

  Return to the start of the currently playing track.

  |◀◀ (touch twice or more):

  Return to a previous track.

■ Fast forwarding and fast reversing

You can fast forward or fast reverse the currently playing track.

1 Touch ▶▶| or |◀◀ for 1 second or more.

- ▶▶|:

  Fast forward the track.

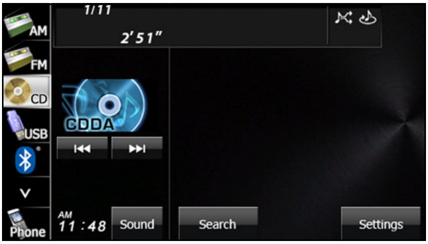
  |◀◀:

  Fast reverse the track.

  Fast forward (or fast reverse) operates until you release your finger from the switch.

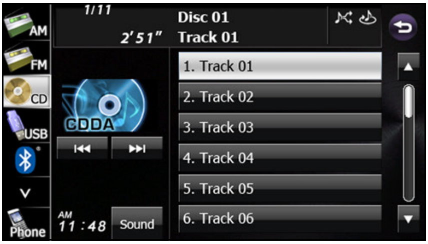
■ Finding a track

1 Touch Search.



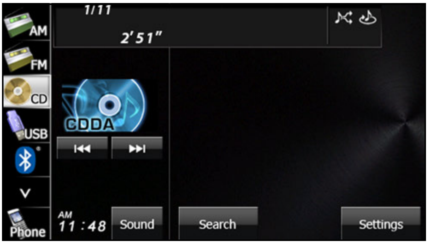
2 Touch the track to which you want to listen.

- The selected track starts to play.
- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ↩ to return to the previous screen.



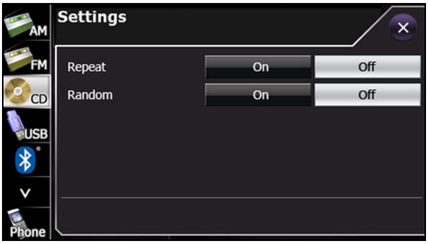
■ Repeating the same track

1 Touch **Settings**.



2 Touch **On** in Repeat.

- Repeat playback is set for the currently playing track.
- When **On** in Repeat is touched, the repeat playback of the track continues until the function is cancelled.
- Touch **Off** in Repeat to cancel the repeat playback of the track.
- Touch **✕** to return to the previous screen.

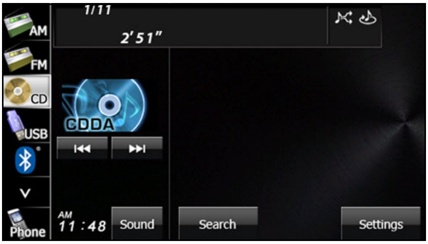


📖 ATTENTION

When On is selected in Repeat, 🔁 is displayed in the top right of the screen as confirmation that the function is on.

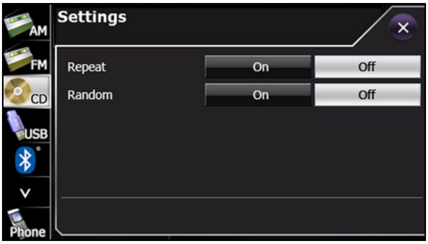
■ Playing tracks randomly

1 Touch **Settings**.



2 Touch **On** in Random.

- All tracks from the currently playing CD are played randomly.
- When **On** in Random is touched, the random playback of the tracks continues until the function is cancelled.
- Touch **Off** in Random to cancel the random playback of the tracks.
- Touch **✕** to return to the previous screen.

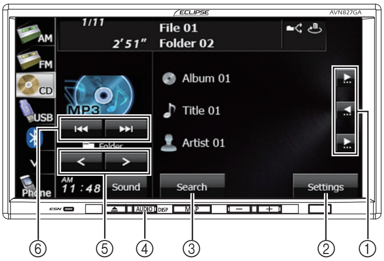


📖 ATTENTION

When On is selected in Random, 🔀 is displayed in the top right of the screen as confirmation that the function is on.

Using the MP3/WMA Player

Using the MP3/WMA Player



① Title information scroll switches*

② Settings switch

③ Search switch

④ AUDIO button

⑤ Folder up/down switches

⑥ File up/down and fast forward (fast reverse) switches

* It will be displayed if the length of the information is too long and it cannot be displayed.

ATTENTION

Some of the functions may not be available when vehicle is in motion.

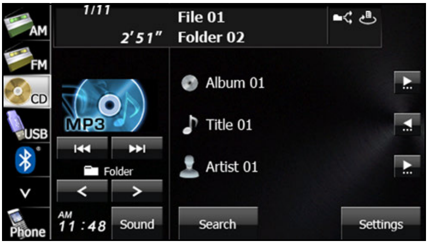
■ Listening to an MP3/WMA file

Insert a CD-R/RW that contains an MP3/WMA file into the disc slot, and it will start playing.

1 Press AUDIO.

2 Touch CD.

- The playback starts.
- The usual playing order is 1 → 2 → 3 → 4 → 5 → 6. (See page 197)
- If multiple MP3/WMA files and folders are located in the same hierarchy, they are played in the order in which they are written in the disc, without ordering them by folder name and file name.
- If you try to play a non-MP3/WMA format file, “No Support” is displayed.



ATTENTION

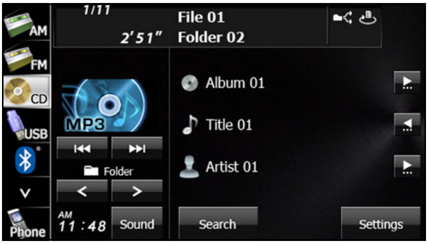
- Playback may be intermittent when there is a scratch on the CD or when the recorded side is dirty.
- For CD-ROMs, a function is available for selecting the folder and file.
- If a non-MP3/WMA file has the “.mp3” or “.wma” file extension, it may be recognised erroneously as an MP3 or WMA file. When such a file is played, a loud noise may be output and damage the speakers. Take care not to assign the “.mp3” or “.wma” extension to non- MP3/WMA files.

■ Selecting a folder

You can select the folder that you want to use from the disc.

1 Touch < or >.

- <:
  Return to the previous folder and play the first file in the folder.
  >:
  Advance to the next folder and play the first file in the folder.

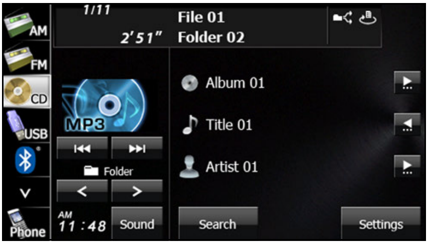


■ Selecting a music file

You can select the file that you want to play from a folder.

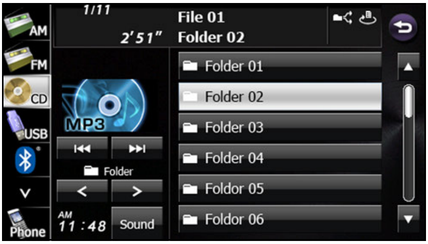
Selecting with a file name button

1 Touch Search.



2 Touch the folder that you want to use.

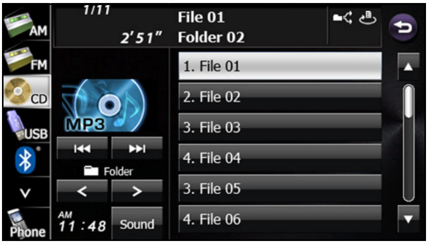
- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ⮌ to return to the previous screen.



Using the MP3/WMA Player

3 Touch the file that you want to play.

- The selected file starts to play.
- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ↩ to return to the previous screen.



Selecting consecutive files

1 Touch ⏭ or ⏮.

- ⏭:
  Advance to the next file.
  ⏮ (Touch once):
  Return to the start of the currently playing file.
  ⏮ (Touch twice or more):
  Return to the previous file.
- The selected file starts to play.

■ Fast forwarding and fast reversing

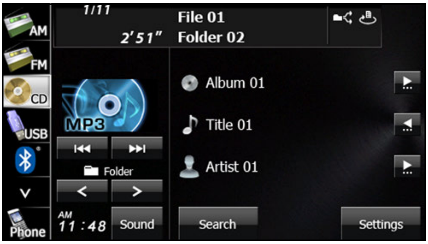
You can fast forward or fast reverse the currently playing file.

1 Touch ⏭ or ⏮ for 1 second or more.

- ⏭:
  Fast forward the file.
  ⏮:
  Fast reverse the file.
  Fast forward (or fast reverse) operates until you release your finger from the switch.

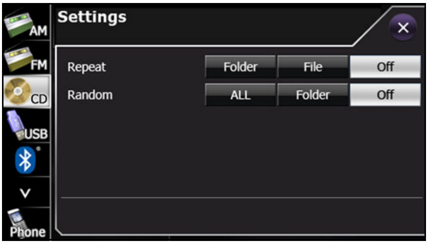
■ Repeating the music file

1 Touch Settings.



2 Touch File or Folder in Repeat.

- Repeat playback is set for the currently playing file or folder.
- To cancel, touch Off in Repeat.
- Touch × to return to the previous screen.

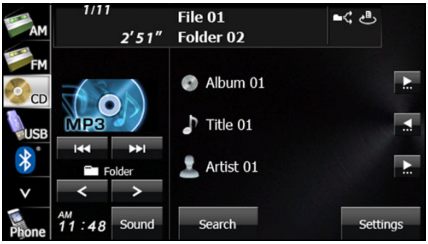


ATTENTION

When the file repeat or folder repeat function is selected, ⟳ or ⟳ is displayed in the top right of the screen as confirmation that the function is on.

■ Playing randomly

1 Touch Settings.



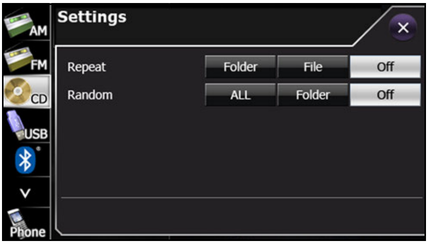
2 Touch ALL or Folder in Random.

- Folder random playback:

  The files in the currently playing folder are played randomly.

  All random playback:

  The files in all folders are played randomly.
- Touch File in Repeat during random playback to repeat the currently playing file. Touch Off in Repeat to return to random playback.
- To cancel, touch Off in Random.
- Touch × to return to the previous screen.



ATTENTION

When the folder random or all random function is selected, ⇄ or ALL⇄ is displayed in the top right of the screen as confirmation that the function is on.

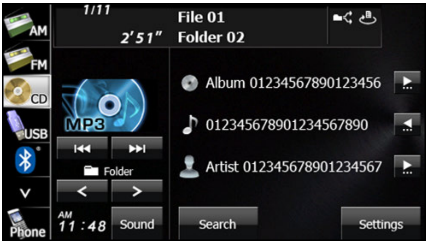
Using the MP3/WMA Player

■ Scrolling title information

If the Album, Title or Artist information cannot be fully displayed because it is too long, you can scroll the display.

1 Touch ▶ on the item that you want to scroll.

- The selected title information scrolls to the left.
- Touch ◀ to stop the scrolling and return to the start of the title.
- If driving is detected while the display is being scrolled, the scrolling stops and returns to the start of the title.
- When the end of the title information is displayed, the scrolling stops.



About MP3/WMA

MP3 (MPEG Audio Layer 3) is a standard format for audio compression. By using MP3, a file can be compressed to about 1/10 of the original size.

WMA (Windows Media Audio) is Microsoft's audio compression technology. WMA files can be compressed to a size even smaller than MP3 files.

This unit only supports certain MP3/WMA file standards, recorded media and formats. Take note of the following when writing MP3/WMA files onto a disc.

■ About the supported MP3 file standards

- Supported standards:
  MPEG1/2/2.5 Audio Layer 3
- Supported sampling frequencies (kHz):
  - MP3 (MPEG1 Audio Layer 3): 32, 44.1, 48
  - MP3 (MPEG2 Audio Layer 3): 16, 22.05, 24
  - MP3 (MPEG2.5 Audio Layer 3): 8, 11.025, 12
- Supported bit rates (kbps):
  - MP3 (MPEG1 Audio Layer 3): 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320
  - MP3 (MPEG2/2.5 Audio Layer 3): 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160

  * Supports VBR (Variable Bit Rate).

  * Does not support Audio Layer 1/2.

  * Emphasis supports only 50/15ms.

  * Does not support free format.

  * Does not support DRM (Digital Rights Management).
- Supported channel modes:
  Stereo, Joint Stereo, Dual channels, Monaural

Using the MP3/WMA Player

■ About the supported WMA file standards

- Supported standards:
  WMA Ver. 7 to 9
- Supported sampling frequencies (kHz):
  22.05, 24, 32, 44.1, 48
- Supported bit rates (kbps):
  - WMA Ver. 7, 8: 48, 64, 80, 96, 128, 160, 192
  - WMA Ver. 9: 48, 63, 64, 80, 95, 96, 127, 128, 160, 191, 192, 256, 320

  * Supports 2-channel play only.
  * Supports VBR (Variable Bit Rate).
  * Does not support WMA9 Professional/Lossless/Voice.
  * Does not support DRM (Digital Rights Management).
- Supported channel modes:
  Stereo, Monaural

■ About ID3/WMA tags

In MP3/WMA files, you can enter textual attribute information known as ID3 tags/WMA tags to save information such as track titles and artist names.

This unit supports ID3v.1.0, 1.1, 2.2, 2.3 and 2.4 tags. This unit supports the ISO 8859-1, 2, 5 and 7 codes only. Use only the ISO 8859-1, 2, 5 or 7 codes to record tags. If characters not included in ISO8859-1, 2, 5 or 7 codes are recorded, they may not be readably displayed.

This unit supports the WMA tag ASF revision (v1.20.02). WMA tags using only Unicode are supported. Always use Unicode characters to enter the information.

* When Ver. 1.x and Ver. 2.x of the ID3 tags both exist, precedence is given to Ver. 2.x.

■ About the supported media types

You can play MP3/WMA files recorded on a CD-ROM, CD-R or CD-RW disc. Compared to the CD-ROM media commonly used for music discs, CD-R and CD-RW discs are fragile in high temperature and high humidity environments. It may not be possible to play some CD-R/CD-RW discs. Fingerprints or scratches on a disc may prevent playback or cause skipping during playback.

Some CD-R/CD-RW discs may deteriorate if left inside a vehicle for a long time.

We recommend that you store UV-sensitive CD-R and CD-RW discs in shield cases.

■ About the supported disc formats

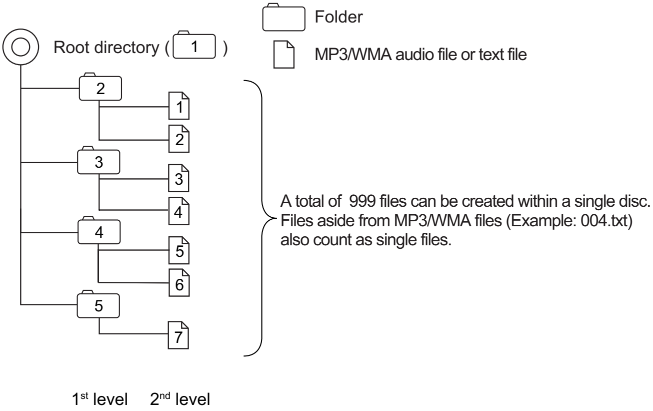
You can use media in the following formats.

- CD-ROM formats:
  CD-ROM MODE 1, CD-ROM XA MODE 2 Form 1
- File formats:
  ISO9660 Level 1 or Level 2
  ROMEO system, JOLIET system
  MP3/WMA files recorded in a format other than those described above may result in files that cannot be played normally or file names and folder names that do not display properly.

In addition to these standards, the following limitations apply.

- Maximum number of directory layers:
  8 layers
- Supported characters for folder and file names:
  A to Z, 0 to 9, and underscore (_)
- Number of files that can be stored on a single disc:
  512
- Number of folders that can be stored on a single disc:
  255

[A configuration example of an MP3/WMA-supporting CD]


Folder
MP3/WMA audio file or text file
Root directory (1)
2
1
2
3
3
4
4
5
6
5
7
A total of 999 files can be created within a single disc.
Files aside from MP3/WMA files (Example: 004.txt)
also count as single files.
1st level
2nd level

Using the MP3/WMA Player

■ About the file names

Only a file with the ".mp3"or ".wma" extension is recognised as an MP3 or WMA file. Always save an MP3/WMA file with the ".mp3" or ".wma" extension.

The ".mp3" or ".wma" file extension must be single-byte lower case letters.

ATTENTION

If a non-MP3/WMA file has the ".mp3" or ".wma" file extension, it may be recognised erroneously as an MP3 or WMA file. When such a file is played, a loud noise may be output and damage the speakers. Do not save a non-MP3/WMA file with the ".mp3" or ".wma" extension.

■ Multi-sessions

Multi-sessions are supported and CD-R/RW with recorded MP3/WMA files can be played.

However, when writing with Track-At-Once, be sure to finalise the disc with session close or write protect.

■ About MP3/WMA playback

When you load a disc containing MP3/WMA files, the system first checks all files recorded on the disc. If the disc has many files and folders, the system may take a while to check them.

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

To allow quick checking of files, we recommend that you do not save non-MP3/WMA files or create unnecessary folders on the disc.

Also, we recommend that you write the all data in a single session because the system takes longer to read the CD control information of a multi-session disc.

■ About the MP3/WMA playing time display

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

* It is possible that the playing time will not be correct when VBR (Variable Bit Rate) Fast Up/Down is operated.

Creating and Playing MP3/WMA Files

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

⚠ CAUTION

- To ensure stable sound quality during playback, we recommend fixing the bit rate to 128 kbps and the sampling frequency to 44.1 kHz.
- Note that it may not be possible to read some CD-R or CD-RW discs, depending on their characteristics.
- There are many types of MP3/WMA encoding software available, including commercial and freeware programs. Depending on the encoder and the file format, the audio quality may deteriorate, noise may be generated when playing starts, or some recordings may not play.
- When files other than MP3/WMA files are recorded on a disc, the system may take some time to recognise the disc and it may not play.

■ Downloading from MP3/WMA music sites on the Internet

You can find various types of MP3/WMA music distribution sites on the Internet, including online shopping, trial listening, and free download sites. You can download music files from these sites by following their payment and other downloading rules.

■ Converting a music CD into MP3/WMA files

Prepare a computer and a commercially available MP3/WMA encoder (conversion) software (some can be found for free on the Internet). Load a music CD into the computer's CD-ROM drive and compress the music CD by following the procedure of the MP3/WMA encoder software. MP3/WMA-format music data files are created. A 12 cm music CD (with a maximum of 74 minutes of recording/650 MB of data) can be compressed to 65 MB (about 1/10 of the original size).

■ Writing MP3/WMA files on a CD-R/RW disc

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

Select CD-ROM (mode 1) or CD-ROM XA (mode 2) as the disc format.

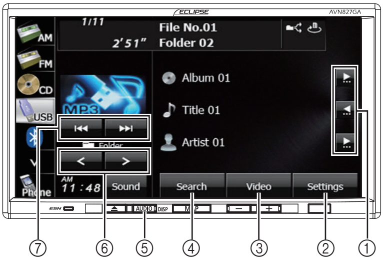
■ Playing a CD-R/RW disc

Insert a CD-R/RW disc on which MP3/WMA files are recorded. When you load a disc, the system automatically determines whether it is a music CD or a CD-R/RW disc that contains MP3/WMA files, and plays it correctly. However, note that depending on the type of disc being used, the disc may not play.

Using the USB Music File Player

Using the USB Music File Player

This unit can play music files stored in a USB memory. Only MP3/WMA/AAC playback is supported.



① Title information scroll switches*

② Settings switch

③ Video switch

④ Search switch

⑤ AUDIO button

⑥ Folder up/down switches

⑦ File up/down and fast forward (fast reverse) switches

* It will be displayed if the length of the information is too long and it cannot be displayed.

ATTENTION

- Touch **Video** to operate the USB video file player. (See page 208)
- Some of the functions may not be available when vehicle is in motion.

■ Listening to a USB music file

CAUTION

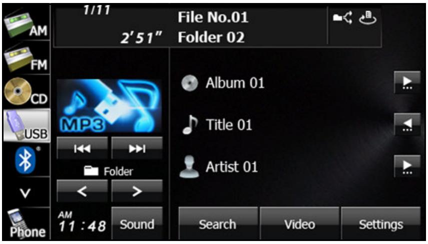
Connect the USB cable correctly so that it does not interfere with safe operation of the vehicle.

1 Connect a USB memory that contains music files to the USB connector.

2 Press **AUDIO**.

3 Touch **USB**.

- The playback starts.



ATTENTION

When a USB memory device is connected, the unit may take some time to scan and read the file tag information. To shorten this scan time, try to store only MP3/WMA/AAC files in the USB memory and minimise the number of folders.

■ Selecting a folder

You can select the folder that you want to use from the USB memory.

1 Touch < or >.

- <:

  Return to the previous folder and play the first file in the folder.

  >:

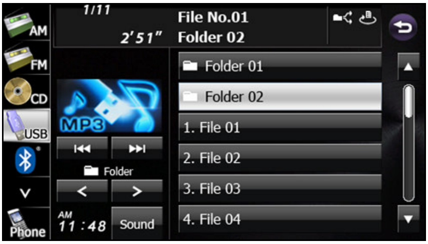
  Advance to the next folder and play the first file in the folder.

📖 ATTENTION

If no MP3/WMA/AAC files exist in the folder, “No Data” appears in the section where the file name and folder name are displayed.

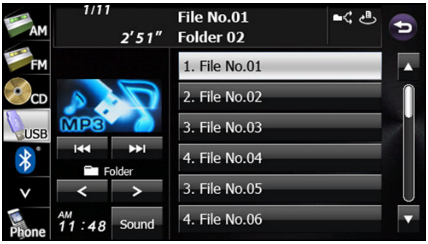
2 Touch the folder that you want to use.

- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ↩ to return to the previous screen.



3 Touch the file that you want to play.

- The selected file starts to play.
- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ↩ to return to the previous screen.

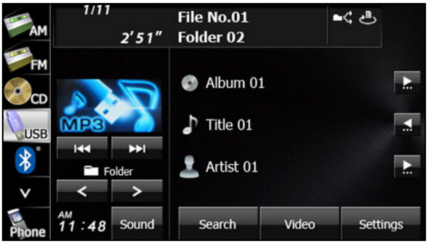


■ Selecting a music file

You can select the file that you want to play from a folder.

Selecting with a file name button

1 Touch Search.



Using the USB Music File Player

Selecting consecutive files

1 Touch ▶▶| or |◀◀.

- ▶▶|:
  Advance to the next file.
  |◀◀ (Touch once):
  Return to the start of the currently playing file.
  |◀◀ (Touch twice or more):
  Return to the previous file.
- The selected file starts to play.

■ Fast forwarding and fast reversing

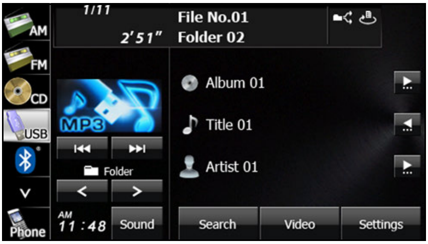
You can fast forward or fast reverse the currently playing file.

1 Touch ▶▶| or |◀◀ for 1 second or more.

- ▶▶|:
  Fast forward the file.
  |◀◀:
  Fast reverse the file.
  Fast forward (or fast reverse) operates until you release your finger from the switch.

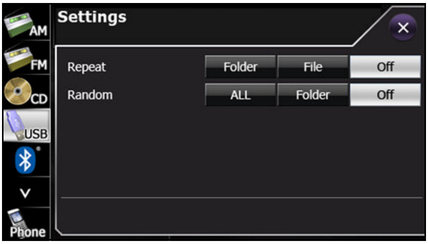
■ Repeating the music file

1 Touch **Settings**.



2 Touch **File** or **Folder** in Repeat.

- Repeat playback is set for the currently playing file or folder.
- To cancel, touch **Off** in Repeat.
- Touch **✕** to return to the previous screen.



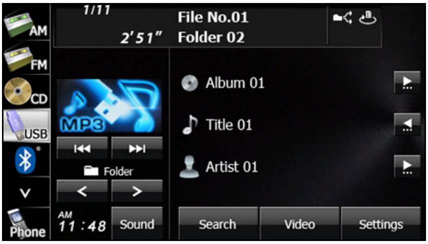
Repeat Folder File Off
Random ALL Folder Off

ATTENTION

When the file repeat or folder repeat function is selected, 🔁 or 🔁 is displayed in the top right of the screen as confirmation that the function is on.

■ Playing randomly

1 Touch **Settings**.



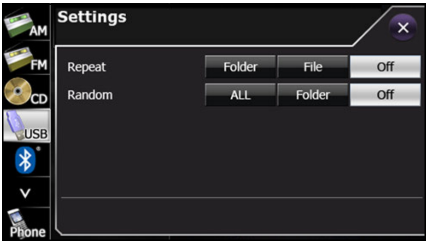
2 Touch **ALL** or **Folder** in Random.

- Folder random playback:

  The files in the currently playing folder are played randomly.

  All random playback:

  The files in all folders are played randomly.
- Touch **File** in Repeat during random playback to repeat the currently playing file. Touch **Off** in Repeat to return to random playback.
- To cancel, touch **Off** in Random.
- Touch **✕** to return to the previous screen.



ATTENTION

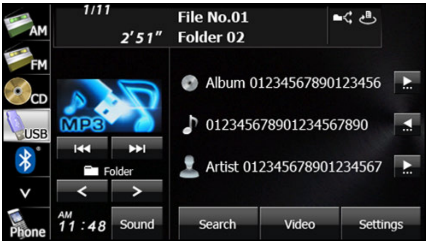
When the folder random or all random function is selected, ⤮ or ALL⤮ is displayed in the top right of the screen as confirmation that the function is on.

■ Scrolling title information

If the Album, Title or Artist information cannot be fully displayed because it is too long, you can scroll the display.

1 Touch **▶** on the item that you want to scroll.

- The selected title information scrolls to the left.
- Touch **◀** to stop the scrolling and return to the start of the title.
- If driving is detected while the display is being scrolled, the scrolling stops and returns to the start of the title.
- When the end of the title information is displayed, the scrolling stops.



Using the USB Music File Player

About USB Devices

■ About the supported USB memory standards

- Supported file formats:
  FAT 32
- Supported audio formats:
  MP3/WMA/AAC
- Maximum current:
  1.0 A
- Supported capacities:
  16 MB to 8 GB
- Compatibility:
  USB1.0/1.1/2.0 (maximum transfer speed is same as USB 2.0)
- Mass memory support:
  Supports USB mass storage class.
- Does not support USB hubs or multi card readers.

■ Supported MP3 file standards

- Supported standards:
  MPEG1/2/2.5 Audio Layer 3
- Supported sampling frequencies (kHz):
  - MP3 (MPEG1 Audio Layer 3): 32, 44.1, 48
  - MP3 (MPEG2 Audio Layer 3): 16, 22.05, 24
  - MP3 (MPEG2.5 Audio Layer 3): 8, 11.025, 12
- Supported bit rates (kbps):
  - MP3 (MPEG1 Audio Layer 3): 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320
  - MP3 (MPEG2/2.5 Audio Layer 3): 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160

  * Supports VBR (Variable Bit Rate).
  * Emphasis supports only 50/15ms.
  * Does not support free format.
  * Does not support DRM (Digital Rights Management).
- Supported channel modes:
  Stereo, Joint Stereo, Dual channels, Monaural

■ Supported WMA file standards

- Supported standards:
  WMA Ver. 7 to 9
- Supported sampling frequencies (kHz):
  22.05, 24, 32, 44.1, 48
- Supported bit rates (kbps):
  - WMA Ver. 7, 8: 48, 64, 80, 96, 128, 160, 192
  - WMA Ver. 9: 48, 63, 64, 80, 95, 96, 127, 128, 160, 191, 192, 256, 320

  * Supports 2-channel play only.
  * Supports VBR (Variable Bit Rate).
  * Does not support WMA9 Professional/Lossless/Voice.
  * Does not support DRM (Digital Rights Management).
- Supported channel modes:
  Stereo, Monaural

■ About the supported AAC file standards

- Supported standards:
  - MPEG-2 AAC-LC
  - MPEG-4 AAC-LC
- Supported sampling frequencies (kHz):
  8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48
- Supported bit rates (kbps):
  8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, 320

  * Supports VBR (Variable Bit Rate).
  * Does not support lossless compression.
  * Does not support DRM (Digital Rights Management).
  * Does not support AAC-Main/SRS/LTP.
  * Does not support HE-AAC V1, HE-AAC V2.
- Supported channel modes:
  Stereo, Monaural

Using the USB Music File Player

■ About ID3/WMA/AAC tags

In MP3/WMA/AAC files, you can enter textual attribute information known as ID3 tags/WMA tags/AAC tags (iTunes tag compliant) to save information such as track titles and artist names.

This unit supports ID3v.1.0, 1.1, 2.2, 2.3 and 2.4 tags.

This unit supports the ISO 8859-1, 2, 5 and 7 codes only. Use only the ISO 8859-1, 2, 5 or 7 codes to record tags. If characters not included in ISO8859-1, 2, 5 or 7 codes are recorded, they may not be readably displayed.

This unit supports the WMA tag ASF revision (v1.20.02). WMA tags using only Unicode are supported. Always use Unicode characters to enter the information.

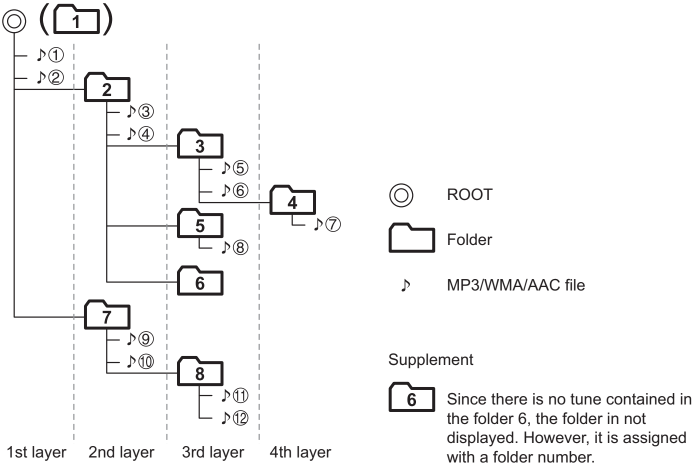
* When Ver. 1.x and Ver. 2.x of the ID3 tags both exist, precedence is given to Ver. 2.x.

■ USB memory format

The control items in this standard are described below.

- Maximum number of directory layers:
  8 layers
- Maximum number of characters for file names:
  128 byte
- Supported characters for file names:
  A to Z, 0 to 9, and underscore (_)
  (Range of alpha-numeric ISO-8859-1)
- Number of files that can be stored in a single memory device:
  9999

[A configuration example of an MP3/WMA/AAC-supporting USB memory]



Since there is no tune contained in the folder 6, the folder in not displayed. However, it is assigned with a folder number.

Using the USB Video File Player

Before Using the USB Video File Player

⚠ WARNING

To ensure safe driving, video is disabled while driving.

■ About DivX

- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.
- Covered by one or more of the following U.S. patents:

  7,295,673; 7,460,668; 7,515,710; 7,519,274
- **ABOUT DivX VIDEO:**

  DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.
- **ABOUT DivX VIDEO-ON-DEMAND:**

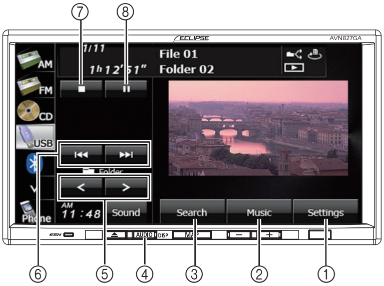
  This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

  DivX Certified® to play DivX® video, including premium content.
- This unit supports playback of DivX files recorded in USB memory. It does not support the playback of DivX files recorded on discs.
- To ensure safety, only DivX music can be played while the vehicle is in motion.

ATTENTION

- You can watch a USB video file only when you have stopped your vehicle and applied the parking brake to ensure safety, and turned the ignition switch to ON or ACC ON. (If the source is switched to USB while the vehicle is in motion, only the audio function operates.)
- This unit supports playback of video files recorded in USB memory. It does not support the playback of video files recorded on discs.

Using the USB Video File Player



① Settings switch

② Music switch

③ Search switch

④ AUDIO button

⑤ Folder up/down switches

⑥ File up/down and fast forward (fast reverse) switches

⑦ Stop switch

⑧ Play/Pause switch

ATTENTION

- Touch **Music** to operate the USB music file player. (See page 200)
- Some of the functions may not be available when vehicle is in motion.

Viewing a USB video file

CAUTION

Connect the USB cable correctly so that it does not interfere with the safe operation of the vehicle.

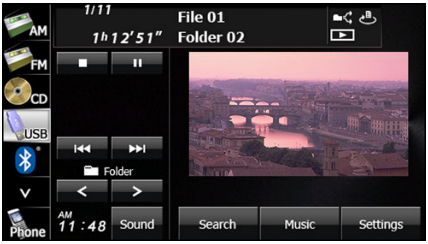
1 Connect a USB memory that contains video files to the USB connector.

2 Press AUDIO.

3 Touch **USB**.

4 Touch **Video**.

- The playback starts.
- Touch the video to show it in a full-screen display. To display the operation switches (touch switches) again, touch the full-screen display.



- Full-screen display

ATTENTION

When a USB memory device is connected, the unit may take some time to scan and read the file tag information. To shorten this scan time, try to store only video files in the USB memory and minimise the number of folders.

Using the USB Video File Player

■ Selecting a folder

You can select the folder that you want to use from the USB memory.

1 Touch < or >.

- < :
  Return to the previous folder and play the first video in the folder.
  > :
  Advance to the next folder and play the first video in the folder.

ATTENTION

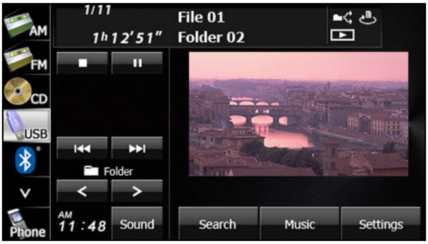
If no video files exist in the folder, “No Data” appears in the section where the file name and folder name are displayed.

■ Selecting a file

You can select the file that you want to play from a folder.

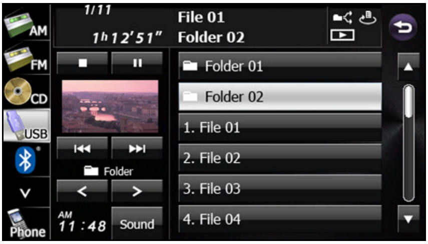
Selecting with a file name button

1 Touch Search.



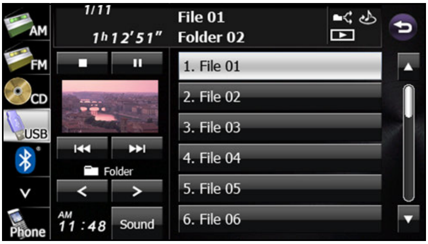
2 Touch the folder that you want to use.

- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ↩ to return to the previous screen.



3 Touch the file that you want to play.

- The selected file starts to play.
- If there are more pages, touch ▲ or ▼ to scroll the pages.
- Touch ↩ to return to the previous screen.



ATTENTION

- When the list is displayed, touch the video to show it in a full-screen display.
- A message is displayed on the screen when DivX VOD Rental files are played. Read the displayed contents carefully, and touch either **Yes** or **No**.
  - This message is only displayed if there are rental frequency limitations.
  - When you touch **Yes**, the rental frequency decreases and the selected image is played back.

Selecting consecutive files

1 Touch ⏭ or ⏮.

- ⏭:

  Advance to the next file.

  ⏮ (Touch once):

  Return to the start of the currently playing file.

  ⏮ (Touch twice or more):

  Return to the previous file.

■ Fast forwarding and fast reversing

You can fast forward or fast reverse the currently playing video.

1 Touch ⏭ or ⏮ for 1 second or more.

- ⏭:

  Fast forward the video.

  ⏮:

  Fast reverse the video.

  Fast forward (or fast reverse) operates until you release your finger from the switch.

■ Pausing a video

1 Touch ⏸.

- During pause, touch ▶ to restart playback.

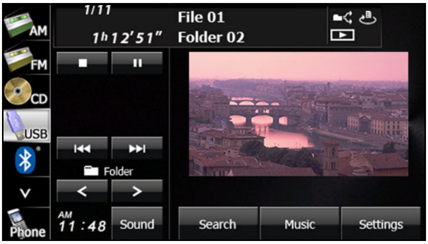
■ Stopping a video

1 Touch ⏹.

Using the USB Video File Player

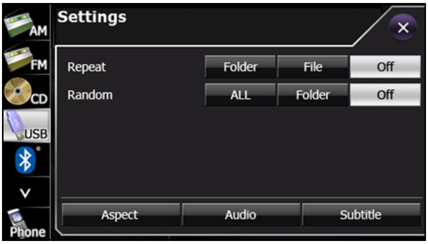
■ Repeating the video file

1 Touch **Settings**.



2 Touch **File** or **Folder** in Repeat.

- ● Repeat playback is set for the currently playing file or folder.
- ● To cancel, touch **Off** in Repeat.
- ● Touch **✕** to return to the previous screen.

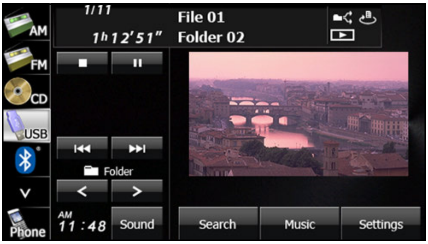


🕮 ATTENTION

When the file repeat or folder repeat function is selected, 🔂 or 🔁 is displayed in the top right of the screen as confirmation that the function is on.

■ Playing randomly

1 Touch **Settings**.



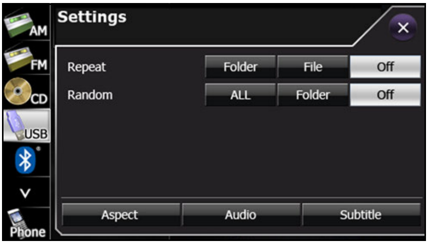
2 Touch **ALL** or **Folder** in Random.

- ● Folder random playback:

  The files in the currently playing folder are played randomly.

  All random playback:

  The files in all folders are played randomly.
- ● Touch **File** in Repeat during random playback to repeat the currently playing video. Touch **Off** in Repeat to return to random playback.
- ● To cancel, touch **Off** in Random.
- ● Touch **✕** to return to the previous screen.



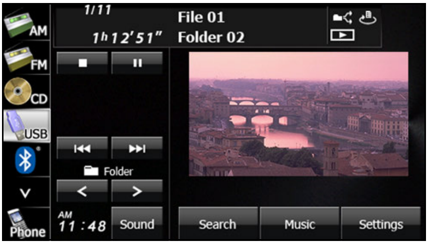
🕮 ATTENTION

When the folder random or all random function is selected, 🔀 or ALL🔀 is displayed in the top right of the screen as confirmation that the function is on.

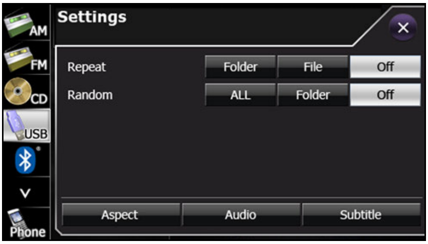
■ Changing the subtitle language

If the video file stores multiple subtitle languages, you can change the subtitle language that is used.

1 Touch Settings.

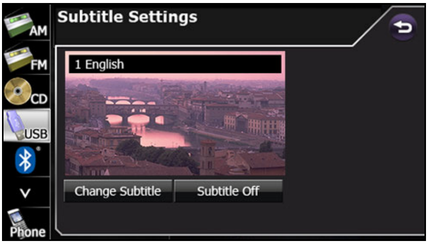


2 Touch Subtitle.



3 Touch Change Subtitle.

- Each time you touch Change Subtitle, the subtitle number changes, and the subtitle languages recorded on the video file change in sequence.
- Touch Subtitle Off to play without displaying subtitles on the screen.

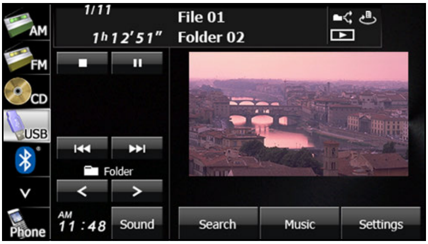


Using the USB Video File Player

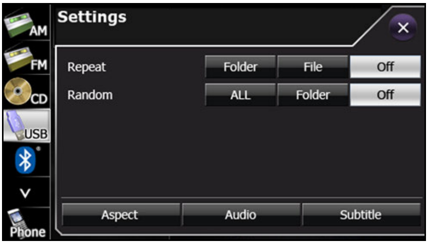
■ Changing the audio language

If the video file stores multiple audio languages, you can change the audio language that is used.

1 Touch Settings.

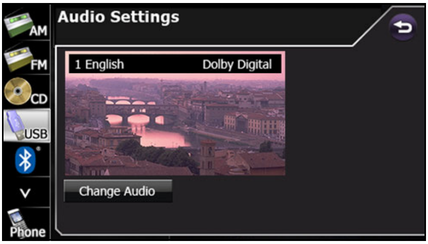


2 Touch Audio.



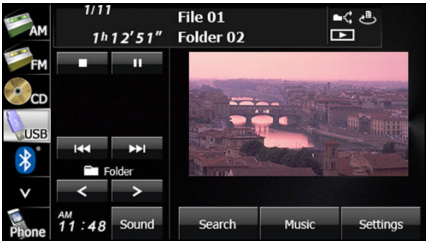
3 Touch Change Audio.

- Each time you touch Change Audio, the audio number changes, and the audio languages recorded on the video file change in sequence.

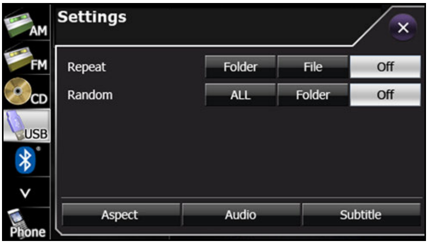


■ Changing the video output

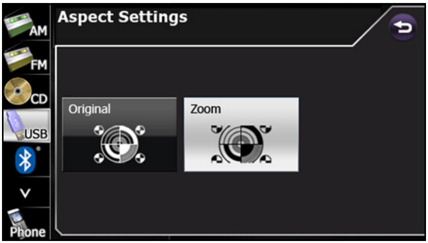
1 Touch Settings.



2 Touch Aspect.



3 Touch Original or Zoom.



- Original:

  Display the video in its original size.

- Zoom:

  Expand the video until its vertical or horizontal dimension reaches the maximum size. (For DivX image files, the image is enlarged to 4.5 times its original size.)

ATTENTION

You are allowed to watch a video on the zoom screen for personal enjoyment. However, if you compress or enlarge the screen for commercial purposes or to display to the public, it may infringe copyright that is protected by copyright laws.

Displaying DivX VOD code

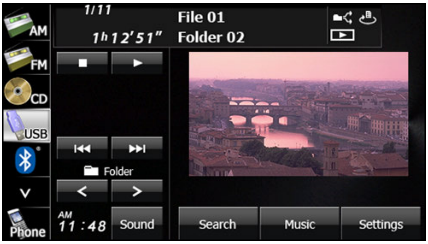
■ Displaying the DivX VOD registration code

To play DivX VOD (Video On Demand) content, first register this unit with the content provider. To register, the DivX VOD registration code is required.

You can display the DivX® Video On Demand registration code.

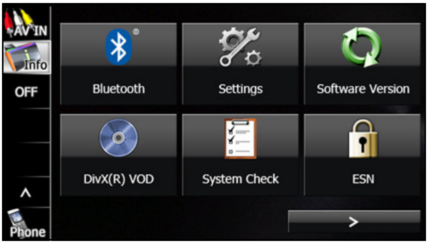
1 Touch Info.

- If Info is not displayed, touch ∨.



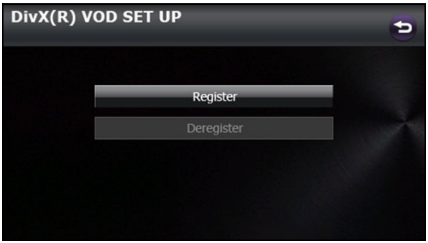
2 Touch DivX(R) VOD.

- The DivX(R) VOD Set Up screen appears.

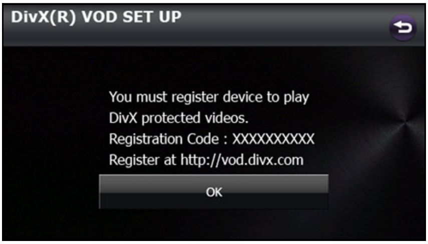


Using the USB Video File Player

3 Touch Register.



- Touch OK to return to the Info screen.



You must register device to play
DivX protected videos.
Registration Code : XXXXXXXXXX
Register at http://vod.divx.com

■ Displaying the DivX VOD deregistration code

To cancel the unit's registration with the content provider, the DivX VOD deregistration code is required. You can display the DivX® Video On Demand deregistration code.

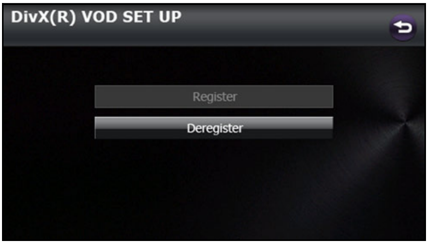
1 Touch Info.

- If Info is not displayed, touch ∨.

2 Touch DivX(R) VOD.

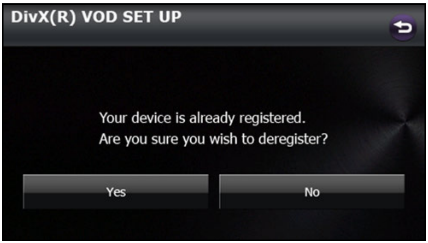
- The DivX(R) VOD Set Up screen appears.

3 Touch Deregister.



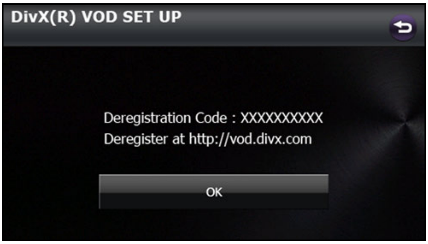
4 Touch Yes.

- Touch No to return to the previous screen.



Your device is already registered.
Are you sure you wish to deregister?

- Touch OK to return to the Info screen.



Deregistration Code : XXXXXXXXXX
Deregister at http://vod.divx.com

■ Caution display while playing VOD rental files

A message is displayed on the screen when DivX VOD rental files are played. Read the displayed contents carefully, and touch either Yes or No.

About USB Devices

■ Supported DivX standards

- Supported extensions:

  DivX, Div, AVI (single-byte characters only, not case-sensitive)

- Maximum number of directory layers:

  8 layers (including the root folder)

- Number of folders that can be stored in the USB memory:

  3000 (including the root folder)

- Number of files that can be stored in the USB memory:

  9999

- Standard level:

  DivX Certified

  * Only title 1 can be played in the DivX media format. The menu is not displayed.

- Codec support:

  DivX Ver. 4.x, 5.x, 6.x (supports NTSC/PAL)

- Profile:

  DivX Home Theater 3.0

- Maximum resolution:

  720 × 480 (30 fps), 720 × 576 (25 fps)

- Supported audio codec:

  MP1, MP2, MP3, AC3

  - Supported sampling frequencies (kHz):

    AC3: 32 - 320

  * For the other audio codec, see “About USB Devices” on page 204.

  - Supported channel modes:

    Stereo, Monaural

■ Supported WMV standards

- Supported extensions:

  WMV (single-byte characters only, not case-sensitive)

- Maximum number of directory layers:

  8 layers (including the root folder)

- Number of folders that can be stored in the USB memory:

  3000 (including the root folder)

- Number of files that can be stored in the USB memory:

  9999

- Codec support:

  WMV Windows Media Video 9 (VC-1)

  * Does not support WMA9 Professional/lossless/Voice

- Maximum resolution:

  720 × 480 (30 fps), 720 × 576 (25 fps)

- Supported audio codec:

  MP3, WMA

  * For the other audio codec, see “About USB Devices” on page 204.

  - Supported channel modes:

    Stereo, Monaural

Using the USB Video File Player

■ Supported MP4 standards

- Supported extensions:

  MP4, M4V (single-byte characters only, not case-sensitive)
- Maximum number of directory layers:

  8 layers (including the root folder)
- Number of folders that can be stored in the USB memory:

  255 (including the root folder)
- Number of files that can be stored in the USB memory:

  9999
- Codec support:

  Complies with MPEG1 Windows Media standards

  MPEG4 MPEG-4 Simple Profile
- Maximum resolution:

  720 × 480 (30 fps), 720 × 576 (25 fps)
- Supported audio codec:

  MP3, AAC, AC3
  - Supported sampling frequencies (kHz):

    AC3: 32 - 320

  * For the other audio codec, see “About USB Devices” on page 204.
  - Supported channel modes:

    Stereo, Monaural

Before Using the DVD Player

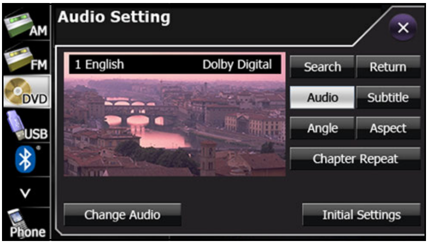
This receiver can play high quality images and high quality digital sound of DVD videos. Also, you can select any of languages (such as dubbing and subtitles) recorded on the DVD by switching the video and audio channels. If the same scene is recorded in different angles, you can select an angle and play the video in the desired angle.

Advantages of Digital Versatile Disc (DVD)

■ Multi-Audio Function

Some DVDs support the multi-audio function that enables you to use multiple languages and change the audio language to the desired one.

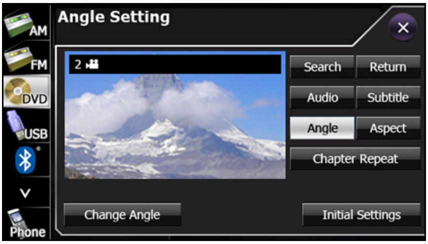
- * The user's ability to change the audio language depends on the DVD.



■ Multi-Angle Function

Some DVDs support the multi-angle function that enables you to play the same video scene with multiple angles and change to the desired angles while playing.

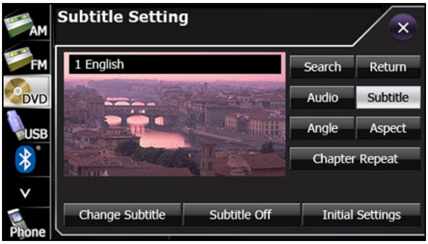
- * The user's ability to view multiple video angles depends on the DVD.



■ Subtitle Display Function

Some DVDs support the multi-subtitle display function that enables you to change the subtitle language to the desired one while playing. If necessary, you can disable the subtitle function to play a video.

- * The user's ability to display subtitles depends on the DVD.



Before Using the DVD Player

Discs

■ Types of Playable Discs

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

Type and mark of playable disc	Size/playing side	Max. playing time
DVD VIDEO	12 cm/1 side	<MPEG 2 system>
	1 layers	133 min.
	2 layers	242 min.
DVD VIDEO	12 cm/2 side	<MPEG 2 system>
	1 layers	266 min.
	2 layers	484 min.

ATTENTION

The playback status may be determined in response to the DVD or software creator's intention. This receiver plays disc contents intended by the software creator; therefore, functions may not operate as you intend. Be sure to read the user's guide that comes with the disc to be played.

■ Region Code of Playable Disc

4 (region code), which is indicated on some DVDs, represents areas they can be played in. This receiver cannot play discs that do not have “4” or “ALL” indicated on this mark. If you attempt to play such a disc, the message “Region code error” will appear. Note also that some discs may be subject to regional restrictions, meaning that this receiver will not play them, even though they list or state a region code.

■ Mark Indicated on Disc

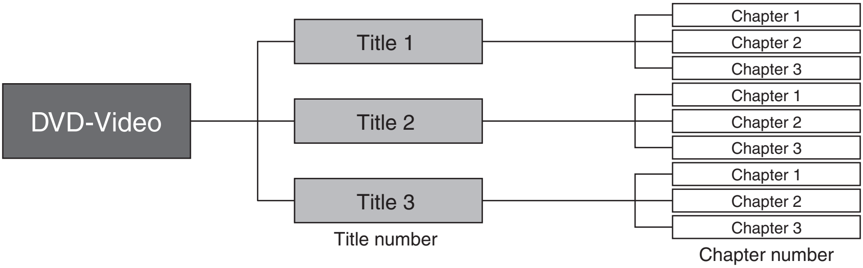
The following table shows the marks that are indicated on DVDs or packages.

Mark	Meaning
3	Indicates the number of audio tracks.
2	Indicates the number of subtitles.
3	Indicates the number of angles.
16:9 LB 4:3	Indicates the image aspect ratio (ratio between the height and width of the TV screen) able to be selected. ● "16:9" indicates a wide screen, and "4:3" indicates a standard screen.
ALL 4	Indicates by use of a number regions where the disc can be played. ● "ALL" indicates that the disc can be played anywhere in the world, and the number indicates a region code. "4" is the region number for Oceania.

■ Disc Configuration

The videos and tracks recorded on a DVD are divided into sections.

A large section is referred to as a title, to which a title number is assigned. A title is divided into chapters, to which chapter numbers are assigned.



Before Using the DVD Player

Products equipped with Rovi Corporation

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation.

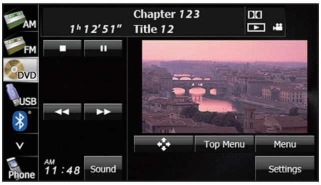
Reverse engineering and disassembly are prohibited.

Operation Flow

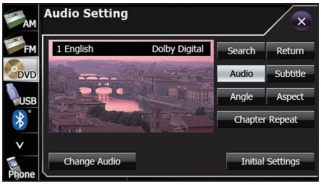
The section explains how to operate the DVD player or search for images or default settings.

- Touching touch switches displays the operation screens shown below.

● DVD operation screen



● DVD settings screen



1 English Dolby Digital

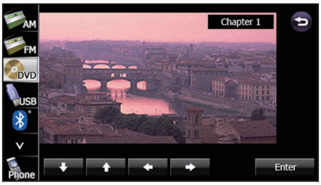
× ←

→ Settings

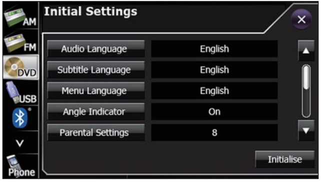
✣ ↓ ↑ ⮌

Initial Settings ↓ ↑ ×

● Menu operation screen



● Initial settings screen



Audio Language	English
Subtitle Language	English
Menu Language	English
Angle Indicator	On
Parental Settings	8

Using the DVD Player

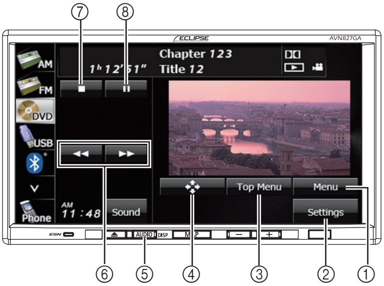
Using the DVD Player

⚠ IMPORTANT

To ensure safe driving, video is disabled while driving.

CHECK

You can watch a video on a DVD only when you have stopped your vehicle and applied the parking brake for safety reasons while the engine switch or ACC is turned on. (If the source is switched to the DVD player while the car is moving, only the audio function becomes active.)



① Menu switch

② Settings switch

③ Top Menu switch

④ Menu operation switch

⑤ AUDIO button

⑥ Chapter up/down and fast forward (fast reverse) switches

⑦ Stop switch

⑧ Pause/Play switch

Watching a DVD Video

Insert a DVD into the disc slot, and it will start playing.

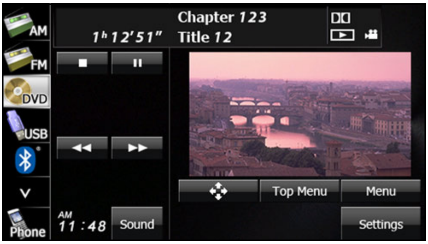
⚠ IMPORTANT

- The touch switches and other operation icons are shown approximately 6 seconds. Touching the screen will display them again.
- Depending on the disc, automatic playback may not function, or playback may not function unless a menu recorded on the disc is selected. (See page 224)

1 Press AUDIO.

2 Touch DVD.

- The disc starts to play.
- If the operation switches (touch switches) are not being displayed, touch the screen.
- If you try to play an unsupported DVD, “Cannot read disc. Please check disc.” appears.



- Full-screen display

Using the DVD Player

■ Fast forwarding and fast reversing

You can fast forward or fast reverse the currently playing video.

1 Touch ⏩ or ⏪ for 1 second or more.

- ⏩:
  Fast forward the video.
  ⏪:
  Fast reverse the video.
  Fast forward (or fast reverse) operates until you release your finger from the switch.

■ Pausing a video

1 Touch ⏸.

- During pause, touch and hold ⏩ or ⏪ to perform slow playback.
- During pause, touch ▶ to restart playback.

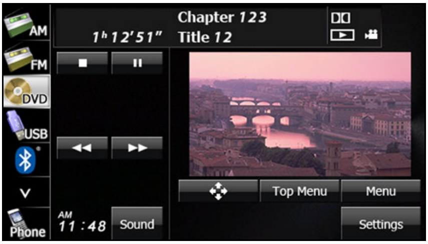
■ Stopping a video

1 Touch ⏹.

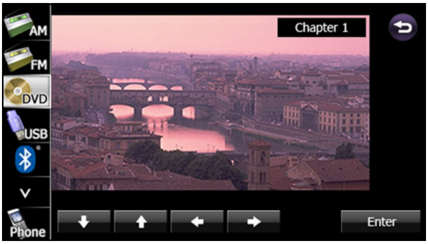
Disc Menu Operations

You can operate the menu recorded on the disc.

1 Touch ✥.



2 Touch ⬇, ⬆, ⬅ and ➡ select the play-back menu.



3 Touch Enter.

ATTENTION

- Display menu by touching Menu or Top Menu.
- The recorded menu items vary depending on the disc. This machine plays what is recorded on the inserted disc; therefore, functions may not operate as intend.

Finding a Desired Video

You can search for the desired video with a title, chapter, or menu number (number assigned for each content).

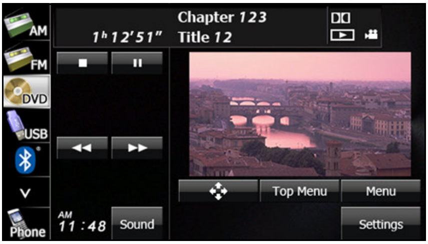
■ Finding by Chapter

1 Touch ▶▶ or ◀◀.

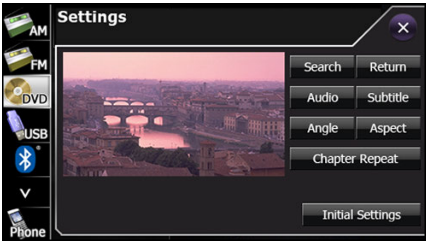
- ▶▶:
  When selecting the next chapter.
  ◀◀:
  When selecting the cue or previous chapter.

■ Finding by Title Number

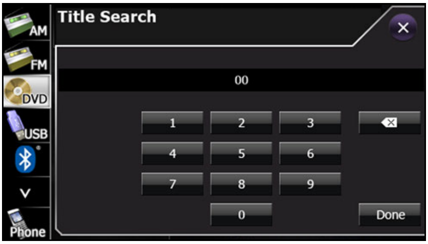
1 Touch Settings.



2 Touch Search.



3 Touch the title number.



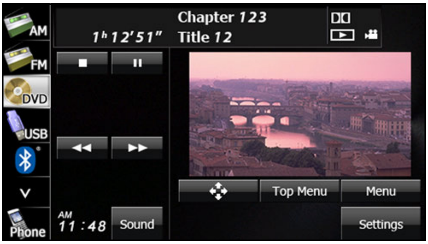
4 Touch Done.

Using the DVD Player

■ Playback from the selected position

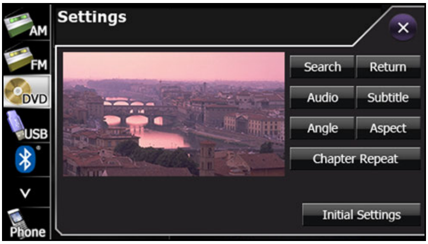
You can start playback from the selected position on the disc.

1 Touch **Settings**.



2 Touch **Return**.

- Playback begins from the selected position.



Changing the Screen Display and Audio Mode

You can change the subtitle language, audio language, or display angle of a video to be played.

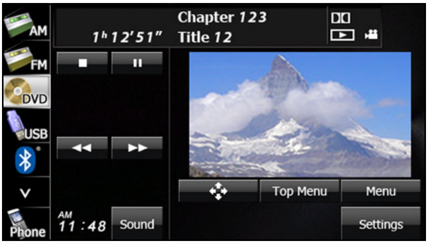
■ Changing the Angle

If the target disc supports multiple angles, you can change them to display a video.

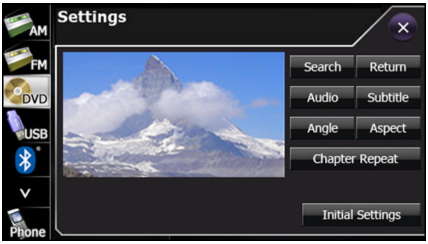
CHECK

While the multi-angle mark is displayed on the screen, you can change the currently displayed angle.

1 Touch **Settings**.

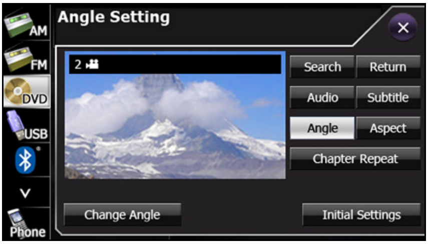


2 Touch **Angle**.



3 Touch **Change Angle**.

- Each time you touch **Change Angle**, the angle number is changed, and the angles recorded on the disc are toggled in sequence.



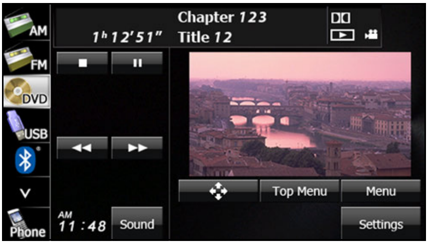
■ Changing the Subtitle Language

If the target disc supports multiple subtitle languages, you can change them to display a video.

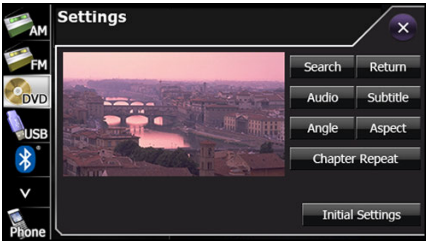
⚠ IMPORTANT

Depending on the disc, it may only be possible to change subtitle languages from the top menu.

1 Touch **Settings**.



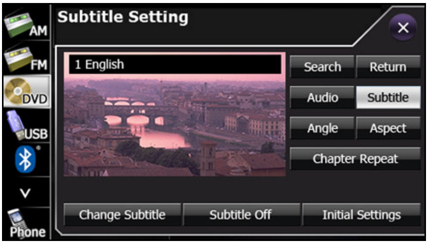
2 Touch **Subtitle**.



Using the DVD Player

3 Touch **Change Subtitle**.

- Each time you touch **Change Subtitle**, the subtitle number is changed, and the subtitle languages recorded on the disc are toggled in sequence.



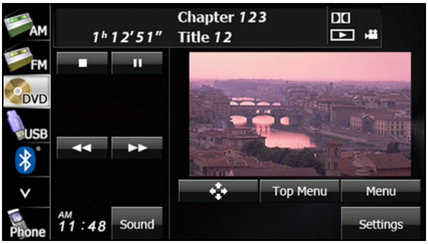
■ Changing the Audio Language

If the target disc supports multiple audio languages, you can change them while playing.

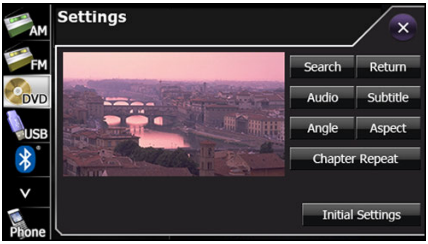
⚠ IMPORTANT

- Depending on the disc, it may only be possible to change audio languages from the top menu.
- This receiver does not support the DTS (Digital Theatre System) format; therefore, no audio will be emitted when “DTS audio” is selected for a disc that contains DTS audio. If audio is securely recorded on the DVD video with no audio emitted, select “Dolby Digital audio”.
- DTS is a registered trademark of the US company Digital Theater Systems, Inc.

1 Touch **Settings**.

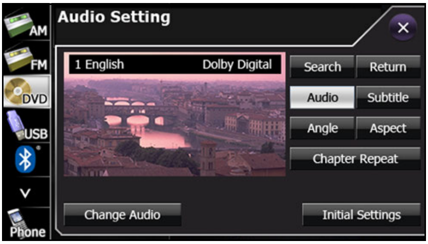


2 Touch **Audio**.



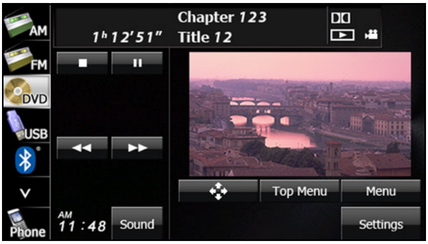
3 Touch **Change Audio**.

- Each time you touch **Change Audio**, the audio number is changed, and the audio languages recorded on the disc are toggled in sequence.

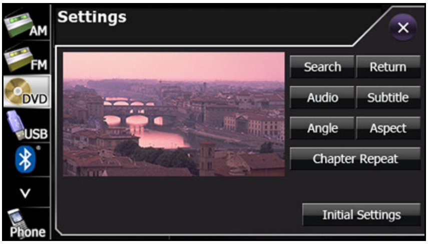


■ Switching DVD setting display

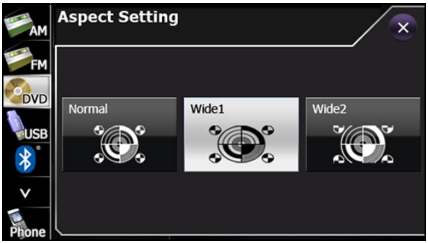
1 Touch **Settings**.



2 Touch **Aspect**.



3 Touch **Normal**, **Wide1** or **Wide2**.



- **Normal**:

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

- **Wide1**:

  The screen with the 9 (vertical) by 16 (horizontal) aspect ratio (normal TV screen size) is uniformly expanded in the left and right directions.

- **Wide2**:

  The screen with the 3 (vertical) by 4 (horizontal) aspect ratio (normal TV screen size) is uniformly expanded in the up, down, left and right directions.

ATTENTION

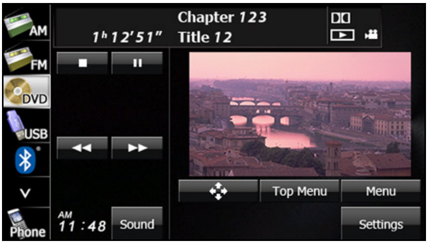
You are allowed to watch a video on the wide screen for personal enjoyment. However, if you compress or enlarge the screen for commercial purposes or to display to the public, it may infringe copyright that is protected by copyright laws.

Using the DVD Player

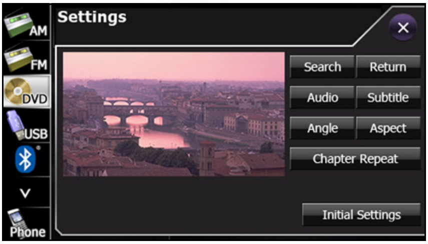
DVD Player Setting

You can pre-specify the play-back audio mode or the language used to display subtitles or menus. You can also configure settings to display or hide the multi-angle mark or specify the parental screening level.

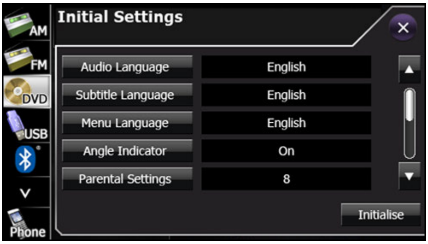
1 Touch **Settings**.



2 Touch **Initial Settings**.

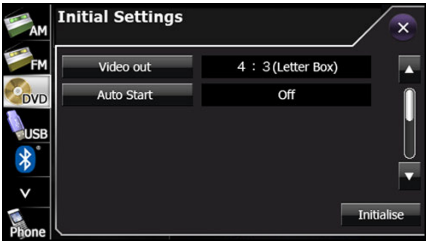


3 If you touch each touch switch, you can configure the following setting.



Audio Language English
Subtitle Language English
Menu Language English
Angle Indicator On
Parental Settings 8

● Initial Settings screen (page 1)



Video out 4 : 3 (Letter Box)
Auto Start Off

● Initial Settings screen (page 2)

Item	Function
Audio Language	Specifies the audio language of a video to be played.
Subtitle Language	Specifies the subtitle language of a video to be played.
Menu Language	Specifies the language used to display the menu.
Angle Indicator	Specifies the display of the multi-angle mark.
Parental Settings	Limits DVD videos that can be played.
Video out	Specifies the screen size.
Auto Start	Selects automatic playback start.
Initialise	Return the settings displayed on the Initial Settings screen to their initial values.

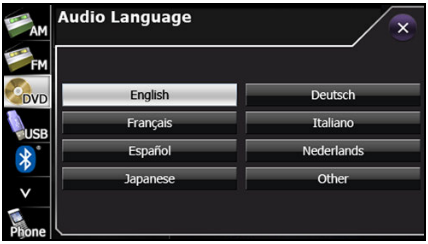
■ Specifying the Audio Language

You can watch the play-back video in the desired language.

1 On the Initial Settings screen, touch **Audio Language**.

2 Touch the desired language.

- If you touch **Other**, you can specify a language other than the one displayed on the screen.



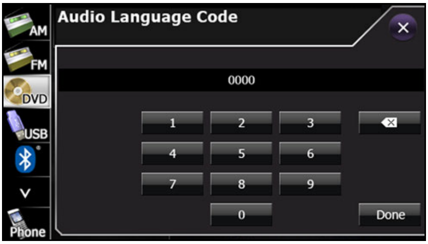
3 Touch **✕**.

Entering the Code

1 On the preferential audio language setting screen, touch **Other**.

2 Enter the desired language code.

- For the language code, see “Language Code List” on page 237.



3 Touch **Done**.

- Touch **✕** to return to the previous page.

ATTENTION

If the selected language is not compatible with the disc, you will not be able to change to that language.

Using the DVD Player

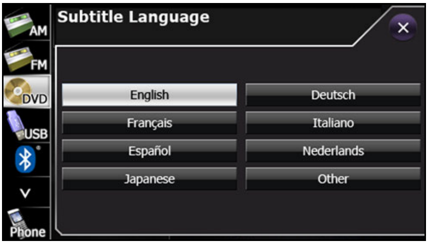
■ Specifying the Subtitle Language

You can view the play-back video in the desired subtitle.

1 On the Initial Settings screen, touch **Subtitle Language**.

2 Touch the desired language.

- If you touch **Other**, you can specify a language other than the one displayed on the screen.



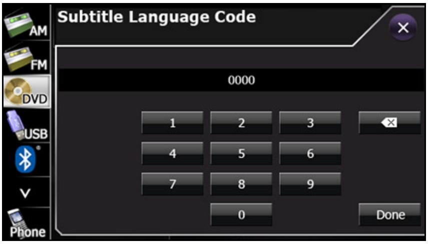
3 Touch **×**.

Entering the Code

1 On the preferential subtitle language setting screen, touch **Other**.

2 Enter the desired language code.

- For the language code, see “Language Code List” on page 237.



3 Touch **Done**.

- Touch **×** to return to the previous page.

ATTENTION

If the selected language is not compatible with the disc, you will not be able to change to that language.

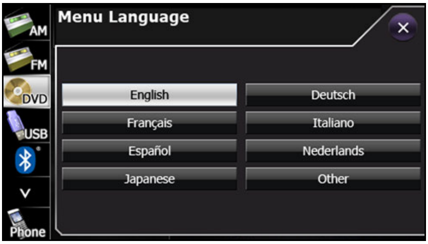
■ Specifying the Menu Language

You can specify the language to display menus recorded on the disc.

1 On the Initial Settings screen, touch Menu Language.

2 Touch the desired language.

- If you touch Other, you can specify a language other than the one displayed on the screen.

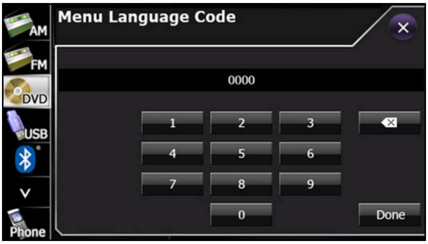


3 Touch ✕.

Entering the Code

1 On the menu language setting screen, touch Other.

2 Enter the desired language code.



- For the language code, see “Language Code List” on page 237.

3 Touch Done.

- Touch ✕ to return to the previous page.

ATTENTION

If the selected language is not compatible with the disc, you will not be able to change to that language.

Using the DVD Player

■ Setting display of multi-angle mark

You can configure to display or hide the multi-angle mark during the playback.

1 On the Initial Settings screen, touch **Angle Indicator**.

- On each touch, On and Off switches.

ATTENTION

When the display setting of the multi-angle mark is set to “Display”, a multiple angle mark is displayed at the top of the screen whenever selection of multiple angle becomes available in the disc.

■ Specifying the Parental Screening Level

You can restrict viewing of scenes that are inappropriate for children, for example, adult-themed or violent scenes. The parental screening levels can be specified in stages depending on levels.

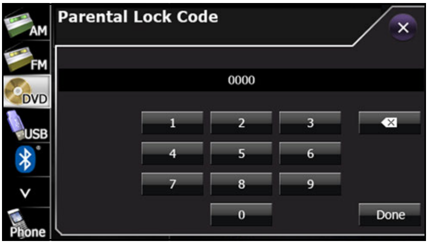
CHECK

This function is not available for discs that do not support the parental screening level function.

1 On the Initial Settings screen, touch **Parental Settings**.

2 Touch the number digit by digit to enter the code number.

- If the code number is omitted, “----” is displayed in the upper field.


Parental Lock Code

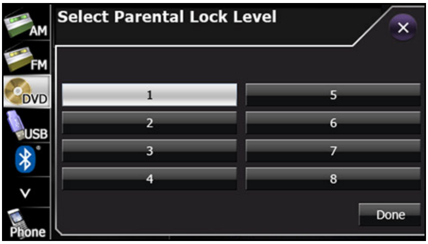
0000

3 Touch **Done**.

- Touch **✕** to return to the previous page.

4 Touch the desired parental screening level.

- If you have entered an incorrect code number, eject the disc once, and specify the parental screening level again.



5 Touch Done.

ATTENTION

- The code number is necessary. If a number is not entered, setting of viewer restriction will not be possible.
- Once a code number is specified, you must enter it when using this item next time and after. Be careful not to forget the code number. If you forget the code number, touch ⌫ 10 times while the code number field remains blank; you can initialise (clear) the current code number.
- Parental screening levels are classified into the following three types.

  Level 1

  Plays only DVD software created specifically for children. (Prohibits playing general and adult-themed DVD software.)

  Levels 2 to 7

  Plays only the general and child-friendly DVD software. (Prohibits playing adult-themed DVD software.)

  Level 8

  Plays all DVD software. (Default)

■ Switching the Video Output

1 On the Initial Settings screen, touch Video out.

2 The screen size changes as follows each time you touch Video out.

16:9 → 4:3 (LETTER BOX) → 4:3 (PAN & SCAN) → 16:9 → …

- 16:9

  Displayed with a black strip on the upper and the lower edges. DVDs recorded with the 4:3 ratio are displayed in the original ratio, which fits the screen perfectly.
- 4:3 (LETTER BOX)

  Displayed in the usual wide size mode. DVDs recorded with the 4:3 ratio are displayed with a black strip on the left and the right edges or in a horizontally spread proportion.
- 4:3 (PAN & SCAN)

  The left and the right edges of the video image are cropped. DVDs recorded with the 4:3 ratio are displayed in the original ratio, which fits the screen perfectly.
- The Video Out image is usually set to the output display rate. Usually use the default 16:9 ratio setting, except when you use a 4:3-ratio rear monitor display.

ATTENTION

The user should not experience any problems when watching a video on the wide screen on a personal basis. If you compress or enlarge the screen for commercial purposes or to display to the public, it may infringe a copyright that is protected by copyright laws.

Using the DVD Player

■ Auto Start setting

This will automatically start DVD playback even without selecting from the menu stored on the disc.

IMPORTANT

- ● The touch switches and other operation icons are shown approximately 6 seconds. Touching the screen will display them again.
- ● Depending on the disc, automatic playback may not function, or playback may not function unless a menu recorded on the disc is selected.

1 On the Initial Settings screen, touch **Auto Start**.

- ● On each touch, On and Off switches.

■ Setting initialisation

Touch **Initialise** to return the “Audio Language”, “Subtitle Language”, “Menu Language”, “Angle Indicator”, “Parental Settings”, “Video out” and “Auto Start” settings to their initial values.

Language Code List

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

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

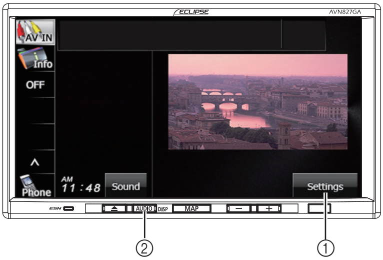
Using a VTR

Using a VTR

You can watch a video by connecting a commercially available VTR.

⚠ WARNING

To ensure safe driving, video is disabled while driving.



① Settings switch

② AUDIO button

ATTENTION

- To connect a VTR, first purchase a connection cord.
- Before using a VTR with this unit, be sure to read the instruction manual of the VTR carefully to make sure that there will be no problems when using it with the unit.
- You can watch a video only when you have stopped your vehicle and applied the parking brake to ensure safety, and turned the ignition switch to ON or ACC ON. (If the source is switched to VTR while the vehicle is in motion, only the audio function operates.)

■ Playing a VTR

⚠ CAUTION

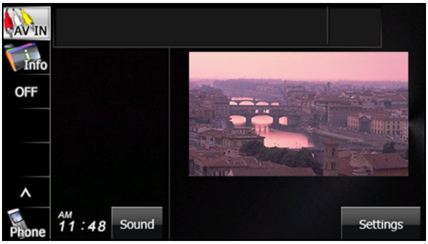
Connect the connection cord correctly so that it does not interfere with the safe operation of the vehicle.

1 Connect a commercially available VTR and start playback.

2 Press AUDIO.

3 Touch AV IN.

- The VTR screen appears.
- Touch the video to show it in a full-screen display. To display the operation switches (touch switches) again, touch the full-screen display.



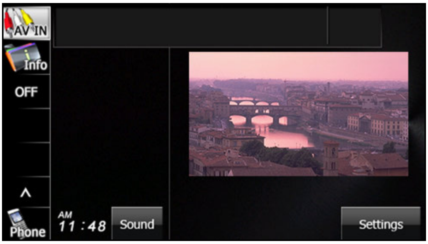
- Full-screen display

ATTENTION

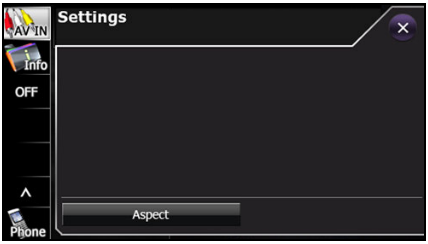
- Depending on the type of connected device, the video may not display correctly.
- For details of operations on the VTR, see the VTR's instruction manual.

■ Settings in the VTR setting screen

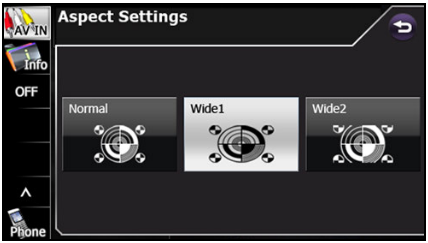
1 Touch Settings.



2 Touch Aspect.



3 Touch Normal, Wide1 or Wide2.



- Normal:

  The screen is displayed with a 3 (vertical) by 4 (horizontal) aspect ratio (normal TV screen size) and the side edges are black.

- Wide1:

  A screen with a 9 (vertical) by 16 (horizontal) aspect ratio (normal TV screen size) is expanded evenly in the left and right directions.

- Wide2:

  A screen with a 3 (vertical) by 4 (horizontal) aspect ratio (normal TV screen size) is expanded evenly in all directions.

ATTENTION

You are allowed to watch a video on the wide screen for personal enjoyment. However, if you compress or enlarge the screen for commercial purposes or to display to the public, it may infringe copyright that is protected by copyright laws.

Using the iPod® Player

Using the iPod Player

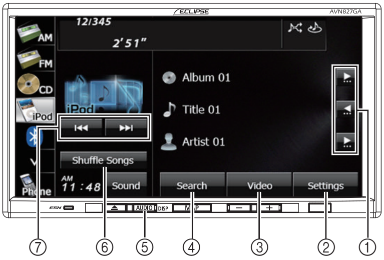
When an iPod is connected, you can play iPod music or video files. On this unit, you can perform operations such as selecting a file from a list or changing to the random playback mode. Note that you cannot connect an iPod cable (video line) and USB or VTR at the same time.

WARNING

To ensure safe driving, video is disabled while driving.

ATTENTION

- Accessory cord for iPod is NOT included and needs to be purchased separately.
- To connect an iPod, first purchase a connection cord.



① Title information scroll switches*

② Settings switch

③ Video switch

④ Search switch

⑤ AUDIO button

⑥ Shuffle Songs switch

⑦ File up/down and fast forward (fast reverse) switches

* It will be displayed if the length of the information is too long and it cannot be displayed.

ATTENTION

- iPod and iTunes may be used with materials without copyright, or materials for which copying or playback are legally allowed for the purposes of private copying or playback. The infringement of copyright is prohibited by law.
- The podcast function is supported, but it may operate differently to that on iPod or iPhone.
- “Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Made for iPod iPhone

- iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- For details on the iPod functions, see the iPod's instruction manual.
- For the iPod types (generations) supported by this unit, see “About the Supported iPods” on page 249.
- Some of the functions may not be available when vehicle is in motion.
- To play an iPod Video, first purchase an optional iPod cable.

■ Playing an iPod

CAUTION

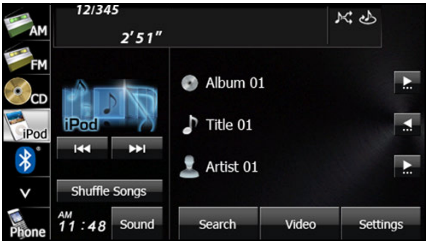
Connect the connection cord correctly so that it does not interfere with the safe operation of the vehicle.

1 Connect an iPod that contains music or video files to the iPod connector.

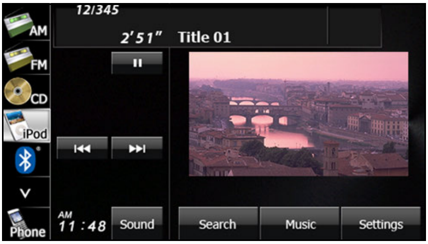
2 Press **AUDIO**.

3 Touch **iPod**.

- The playback starts.



- Music mode



- Video mode

ATTENTION

- When the ignition switch is in the “ACC” or “ON” position, the battery of the connected iPod is charged. However, it may take some time until the iPod is turned on, depending on the remaining power in the battery.
- Disconnect headphones and other accessories from the iPod before connecting it to this unit. Failure to do so may make it impossible to operate the iPod from this unit.
- If the iPod's equaliser has been customised, the sound output may be distorted when it is connected to the optional dedicated connection cable.
- If this unit does not support the language used in the iPod, album names, titles, and artist names are displayed as blank.
- iPod may not be recognised in ACC OFF/ ON. In this case, remove the iPod and reconnect it.
- When you connect your iPod, the music or video file starts playing from the previous position. Also, if you switch the power of the iPod off and on, the music or video file starts playing from the previous position. But if the unit cannot detect the file that was playing previously, it will start playing from the first music or video file.
- If there are multiple music or video files stored on your iPod or iPhone, it may take some time until the playback starts.
- If the iPod is set to Shuffle Songs and is connected to this unit, 🔀 is not shown on the display.

Using the iPod® Player

■ Fast forwarding and fast reversing

You can fast forward or fast reverse the currently playing music or video file.

1 Touch ⏮ or ⏭ for 1 second or more.

- ⏭:

  Fast forward the music or video file.

  ⏮:

  Fast reverse the music or video file.

  Fast forward (or fast reverse) operates until you release your finger from the switch.

■ Selecting a music or video file

You can select the music or video file that you want to play.

1 Touch ⏮ or ⏭.

- ⏭:

  Advance to the next music or video file.

  ⏮:

  Return to the start of the currently playing music or video file.

  ⏮ (Touch twice or more):

  Return to the previous music or video file.

  The selected music or video file starts to play.

■ Switching between music mode and video mode

Music mode:

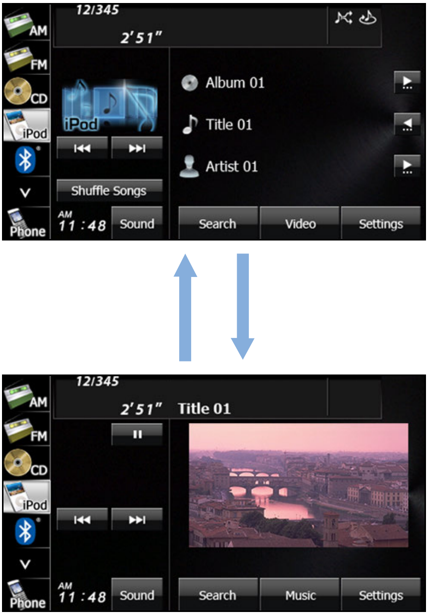
You can select the music file that you want to play from the music stored on the iPod.

Video mode:

You can select the music file that you want to play from the videos stored on the iPod.

1 Touch **iPod**.

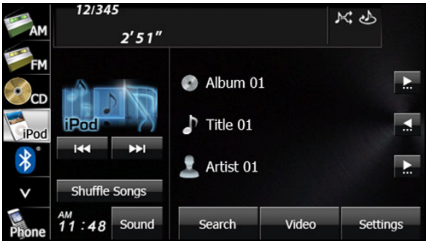
2 Touch **Video** or **Music** to change the screen.



■ Finding a music file

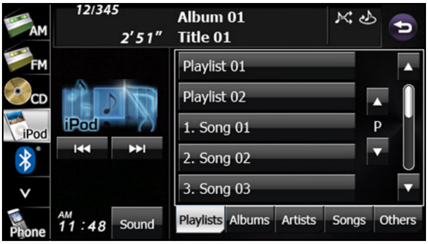
1 Touch iPod.

2 Touch Search.



3 To select a music file or program to play, touch Playlists, Albums, Artists, Songs or Others.

- ● The list screen for the selected mode appears.
- ● Touch ↩ to return to the previous screen.



4 Touch the list that you want to use.

- ● The list order depends on the selection mode, as shown below.

  Playlists:

  Playlist screen → Music file screen

  Albums:

  Album screen → Music file screen

  Artists:

  Artist screen → Album screen → Music file screen

  Songs:

  Music file screen

  Others:

  Others screen → Genre screen → Artist screen → Album screen → Music file screen.

  Others screen → Program screen → Episode screen

  Others screen → Book screen

  Others screen → Composer screen → Album screen → Music file screen

5 Touch the music file that you want to play.

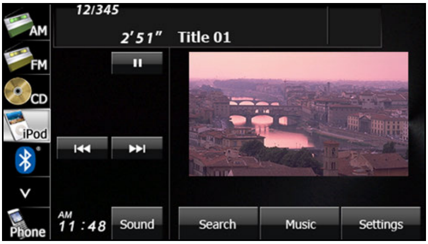
- ● The selected music file starts to play.
- ● Touch ▲ or ▼ on the scroll function to scroll the display pages of the music file list.
- ● Touch ▲ or ▼ on the index function to display in the list the names that start with the selected letter or number.
- ● Touch ↩ to return to the previous screen.

Using the iPod® Player

■ Finding a video file

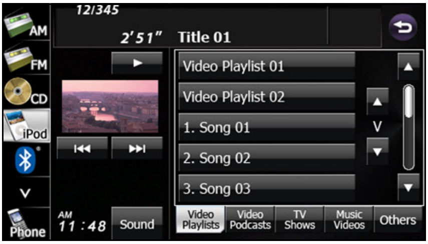
1 Touch iPod.

2 Touch Search.



3 To select a video file or program to play, touch Video Playlists, Video Podcasts, TV Shows, Music Videos or Others.

- ● The list screen for the selected mode appears.
- ● Touch ↩ to return to the previous screen.



4 Touch the list that you want to use.

- ● The list order depends on the selection mode, as shown below.

  Video Playlists:

  Playlist screen → Video file List screen

  Video Podcasts:

  Series List screen → Season List screen → Episode List screen

  TV Shows:

  TV Show List screen → TV Show List screen

  Music Videos:

  Artist List screen → Video file List screen

  Others:

  Others screen → Rental List screen → Rental List screen

  Others screen → Video file List screen

5 Touch the video file that you want to play.

- ● The selected video file starts to play.
- ● Touch ▲ or ▼ on the scroll function to scroll the display pages of the video file list.
- ● Touch ▲ or ▼ on the index function to display in the list the names that start with the selected letter or number.
- ● Touch ↩ to return to the previous screen.

■ Pausing

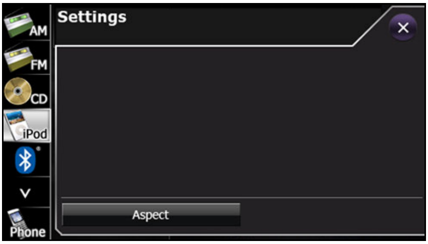
1 Touch **II**.

- Touch **II** to pause the screen. Touch **▶** to play again.

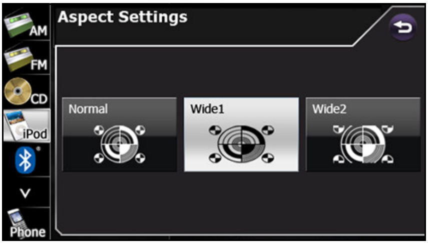
■ Settings in the Video mode setting screen

1 On the Video mode screen, touch **Settings**.

2 Touch **Aspect**.



3 Touch **Normal**, **Wide1** or **Wide2**.



- **Normal**:
  The screen is displayed with a 3 (vertical) by 4 (horizontal) aspect ratio (normal TV screen size) and the side edges are black.
- **Wide1**:
  A screen with a 9 (vertical) by 16 (horizontal) aspect ratio (normal TV screen size) is expanded evenly in the left and right directions.
- **Wide2**:
  A screen with a 3 (vertical) by 4 (horizontal) aspect ratio (normal TV screen size) is expanded evenly in all directions.

ATTENTION

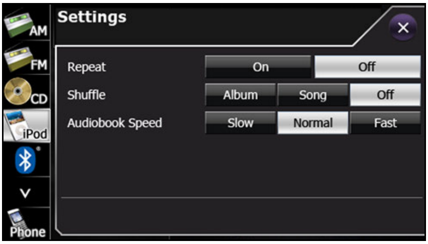
You are allowed to watch a video on the wide screen for personal enjoyment. However, if you compress or enlarge the screen for commercial purposes or to display to the public, it may infringe copyright that is protected by copyright laws.

Using the iPod® Player

■ Repeating the same music file

1. Touch iPod.
2. Touch Settings.
3. Touch On in Repeat.

- Repeat playback is set for the currently playing music file.
- When you touch On, repeat is continued until you cancel it. Touch Off to cancel the repeat playback.
- When Repeat is cancelled, repeat playback is performed for the list that is playing back.
- Touch ✕ to return to the previous screen.



ATTENTION

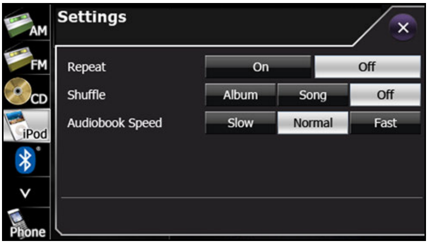
When On is selected in Repeat, 🔁 is displayed in the top right of the screen as confirmation that the function is on.

■ Playing music files randomly

Playing music files from the current list randomly

1. Touch iPod.
2. Touch Settings.
3. Touch Song in Shuffle.

- When you touch Song, random playback is continued until you cancel it. Touch Off to cancel random playback.
- Touch ✕ to return to the previous screen.



ATTENTION

When the list random function is selected, 🔀 is displayed in the top right of the screen as confirmation that the function is on.

Playing albums randomly

You can play albums randomly. Note that the music files within the albums are played in order from the first.

1 Touch **iPod**.

2 Touch **Settings**.

3 Touch **Album** in Shuffle.

- When you touch **Album**, random playback is continued until you cancel it. Touch **Off** to cancel random playback.
- Touch **✕** to return to the previous screen.

ATTENTION

When the album random function is selected, 🔀 is displayed in the top right of the screen as confirmation that the function is on.

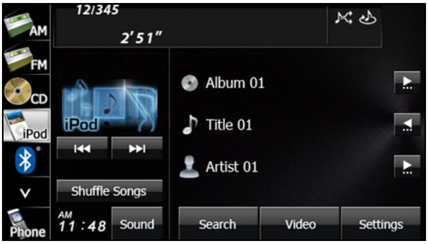
■ Playing all shuffle songs

You can play all the music files randomly.

1 Touch **iPod**.

2 Touch **Shuffle Songs**.

- When you touch **Shuffle Songs**, random playback is continued until you cancel it.



ATTENTION

When the all random function is selected, 🔀 is displayed in the top right of the screen as confirmation that the function is on.

Using the iPod® Player

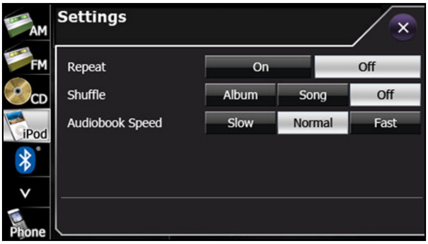
■ Changing the audiobook playback speed

1 Touch **iPod**.

2 Touch **Settings**.

3 Touch **Slow**, **Normal** or **Fast** in Audiobook Speed.

- **Slow**:
  Slow down the reading speed of the audiobook.
- **Normal**:
  Set the reading speed of the audiobook to normal.
- **Fast**:
  Speed up the reading speed of the audiobook.
- Touch **✕** to return to the previous screen.



Settings

Repeat On Off

Shuffle Album Song Off

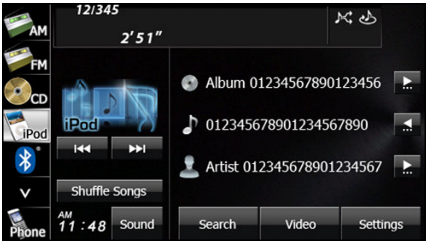
Audiobook Speed Slow Normal Fast

■ Scrolling title information

If the Album, Title or Artist information cannot be fully displayed because it is too long, you can scroll the display.

1 Touch **▶** on the item that you want to scroll.

- The selected title information scrolls to the left.
- Touch **◀** to stop the scrolling and return to the start of the title.
- If driving is detected while the display is being scrolled, the scrolling stops and returns to the start of the title.
- When the end of the title information is displayed, the scrolling stops.



12/345

2'51"

Album 01234567890123456

01234567890123456789 0

Artist 012345678901234567

AM 11 :48

About the Supported iPods

This unit can be used with the following iPods.

Type	Generation	Firmware version or OS
iPod	5G	1.3
iPod nano	1G*	1.3.1
	2G*	1.1.3
	3G	1.1.3
	4G	1.0.4
	5G	1.0.2
	6G*	1.1
iPod classic	1G	1.1.2
	2G (120 GB)	2.0.1
	2009 (160 GB)	2.0.4
iPod touch	1G	iOS 3.1.3
	2G	iOS 4.2.1
	Late 2009 (8 GB/16 GB)	iOS 4.2.1
	Late 2009 (32 GB/64 GB)	iOS 4.2.1
	3G	iOS 4.3.2
	4G	iOS 4.3.2
iPhone	1G (iPhone)	iOS 3.1.3
	2G (iPhone 3G)	iOS 4.2.1
	3G (iPhone 3GS)	iOS 4.3.2
	iPhone 4	iOS 4.3.2

* The video playback function is not supported.

ATTENTION

Note that the warranty does not apply if an unsupported iPod is connected.

Using Bluetooth Audio

Before Using Bluetooth Audio

A Bluetooth-supporting portable audio player (“portable device” hereafter) can be used as a source for this unit by utilising the Bluetooth wireless communication technology. To use a Bluetooth-supporting portable device with this unit, it is necessary to perform Bluetooth registration and connection settings.

⚠ CAUTION

- The frequency band used by this unit is the same band that is used by industrial, scientific and medical devices such as microwave ovens, facility wireless stations used for identifying moving objects in factory production lines and other locations (wireless station that requires a license), special low output wireless stations (wireless station that does not require a license), and amateur radios (wireless station that requires a license). (The 3 types of wireless stations above are hereafter called “other wireless stations”.) Before operating this unit, make sure that no “other wireless stations” are operating nearby. If the unit causes harmful radio wave interference in “other wireless stations”, immediately change the location to stop the radio wave interference.
- The frequency band used by this unit is the 2.4 GHz band.
- The FH-SS modulation scheme is used.
- The estimated distance in which interference may occur is less than 10 m.
- This unit uses the full band, making it possible to avoid the band of devices that identify moving objects.
- This unit complies with the standards specified by the Radio Act and Telecommunications Business Act in Japan. The stickers attached to the product certify this. Do not remove the stickers.
- Disassembling or modifying this unit is punishable by law.

- The Bluetooth-supporting portable device connected to the unit must be a portable device which supports the relevant Bluetooth specifications. For the Bluetooth specifications supported by this unit, see “About the Compatible Bluetooth-Supporting Devices” on page 259.
- Bluetooth is a short-range wireless technology for connecting mobile phones, computers and other such devices.

Bluetooth®

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ATTENTION

- This unit can be used with Bluetooth-supporting portable devices.
- For details of Bluetooth operations, see the portable device or mobile phone instruction manual.
- Factors in the surrounding environment may negatively affect the connection status and prevent Bluetooth audio operations on the unit.
- BTA feature is subject to portable devices or mobile phone compatibility.

■ Registering a portable device

You can register portable devices on this unit. Up to 5 portable devices can be registered on the unit. The order of registration precedence is always 1 to 5. When a portable device is added or deleted, the order of precedence is updated.

⚠ WARNING

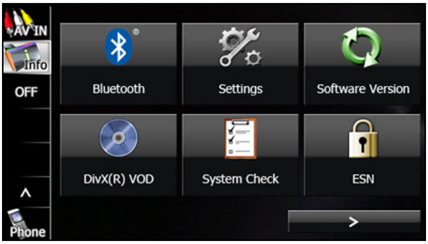
Do not register a portable device while driving. Be sure to park the vehicle in a safe location and apply the parking brake before registering a device.

1 Press AUDIO.

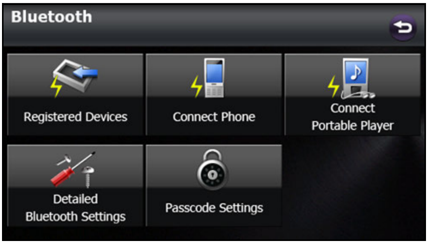
2 Touch Info.

- If Info is not displayed, touch ∨.

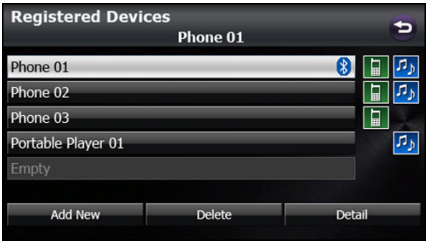
3 Touch Bluetooth.



4 Touch Registered Devices.

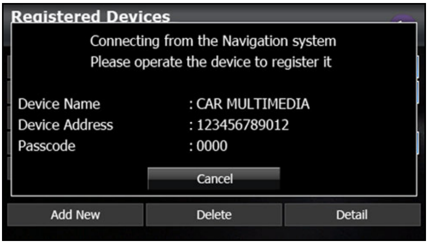


5 Touch Add New.



6 Operate the portable device to enter the passcode (passkey) of the unit.

- The name of the unit is CAR MULTIMEDIA.
- The initial setting for the passcode (passkey) is 0000.
- Operate the portable device while the Registered Devices screen is displayed.



Connecting from the Navigation system
Please operate the device to register it

Device Name : CAR MULTIMEDIA
Device Address : 123456789012
Passcode : 0000

- Registered Devices screen

Using Bluetooth Audio

7 When the registration is complete, “Connection Completed” appears.

- The portable device registration is complete.
- After the registration completed message is displayed, “Connection established successfully!” appears.

ATTENTION

- If the registration fails, “Connection failed.” appears on the screen. If this happens, perform the registration operation again.
- For details of operations on the portable device, see the portable device's instruction manual.

■ Deleting a portable device registration

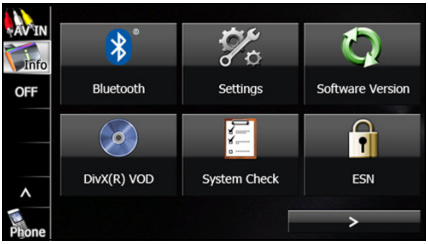
You can delete portable devices that are registered on the unit.

1 Press AUDIO.

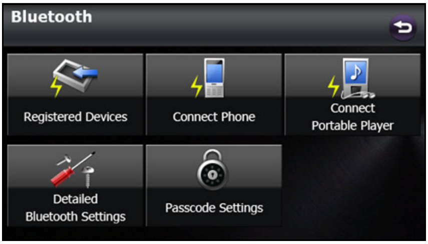
2 Touch Info.

- If Info is not displayed, touch V.

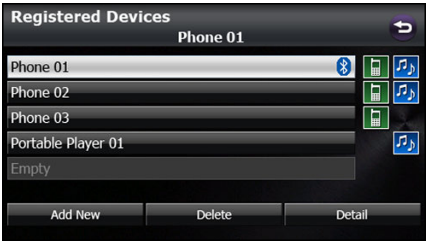
3 Touch Bluetooth.



4 Touch Registered Devices.



5 Select the portable device that you want to delete.



6 Touch Delete.

- “Are you sure you want to delete this device?” appears on the screen. Touch Yes or No.

7 After touching “Yes”, when the deletion is complete, “Completed” appears.

- The portable device deletion is complete.

■ Connecting a portable device

You can connect portable devices that are registered on the unit.

- Make the preparations necessary for connecting to the unit, for example by setting the portable device's Bluetooth standby to On.

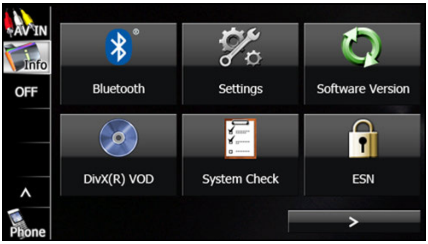
  For details of operations on the portable device, see the portable device's instruction manual.

1 Press AUDIO.

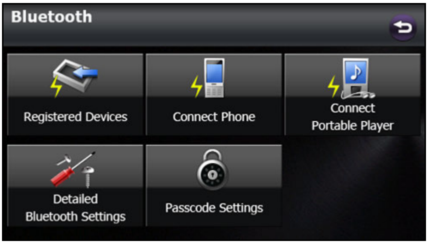
2 Touch **Info**.

- If **Info** is not displayed, touch **V**.

3 Touch **Bluetooth**.

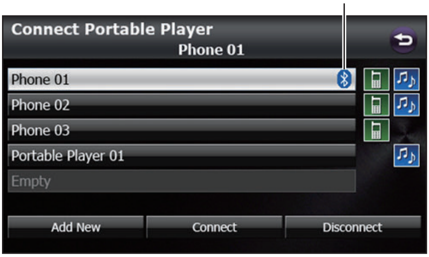


4 Touch **Connect Portable Player**.



5 Select the portable device that you want to connect.

- The Bluetooth mark is displayed for portable devices with an active Bluetooth connection.



6 Touch **Connect**.

- The connection screen appears.

7 When the connection is complete, "Connection Completed" appears.

- The connection between the portable device and the unit is complete.

ATTENTION

- If the connection fails, "Connection failed." appears on the screen. If this happens, perform the connection operation again.
- Connection is not possible if no portable devices are registered.
- On the Connect Portable Player screen, touch **Add New** to register a portable device.

Using Bluetooth Audio

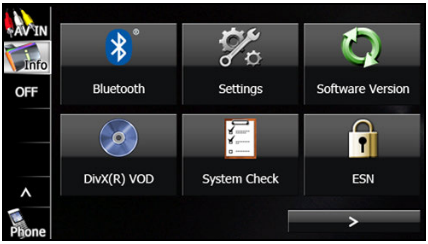
■ Cancelling a portable device connection

1 Press AUDIO.

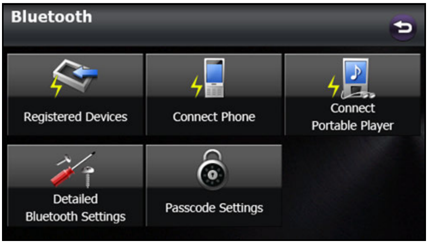
2 Touch Info.

- If Info is not displayed, touch ∨.

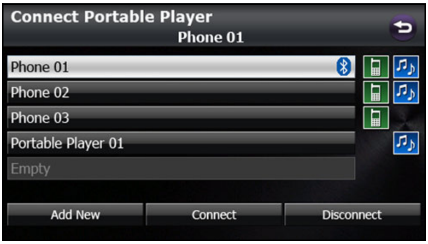
3 Touch Bluetooth.



4 Touch Connect Portable Player.



5 Select the portable device with the connection that you want to cancel.



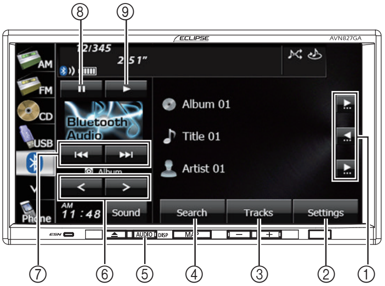
6 Touch Disconnect.

- “Another device already connected. Disconnect this device?” appears. Touch Yes or No.

7 After touching “Yes”, when the cancellation is complete, “Connection with the mobile telephone was disconnected.” appears.

- The cancellation of the portable device connection is complete.

Using a Portable Device



① Title information scroll switches*1 *2

② Settings switch

③ Tracks switch*1

④ Search switch

⑤ AUDIO button

⑥ Album selection switches*1

⑦ Track up/down and fast forward (fast reverse) switches*1

⑧ Pause switch

⑨ Play switch

*1 May not be displayed, and operations may not function depending on the portable device type.

*2 It will be displayed if the length of the information is too long and it cannot be displayed.

ATTENTION

Some of the functions may not be available when vehicle is in motion.

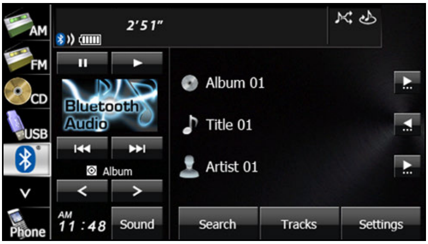
■ Listening to a portable device

1 Press AUDIO.

2 Touch ᛒ.

3 Touch ▶.

- The playback starts on the connected portable device.



ATTENTION

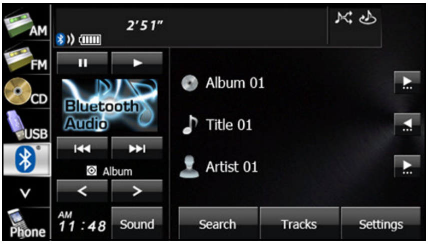
- If the playback does not start when you touch ▶ on the unit, press the play button on the portable device.
- Album, Title, and Artist name may not be displayed depending on the portable device type.

Using Bluetooth Audio

■ Pausing the playback

1 Touch ⏸.

- To start the playback again, touch ▷.



■ Selecting a track

1 Touch ⏮ or ⏭.

- ⏭:
  Advance to the next track.
  ⏮ (Once):
  Return to the start of the currently playing track.
  ⏮ (Twice or more):
  Return to the previous track.

■ Selecting a music album

1 Touch > or <.

- >:
  Advance to the next music album.
  <:
  Return to the previous music album.

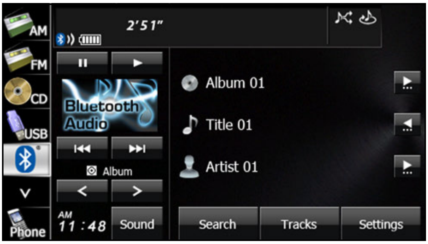
■ Fast forwarding and fast reversing

1 Touch ⏮ or ⏭ for 1 second or more.

- ⏭:
  Fast forward the track.
  ⏮:
  Fast reverse the track.
  Fast forward (or fast reverse) operates until you release your finger from the switch.

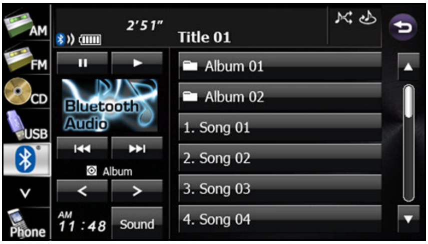
Finding a music album

1 Touch Search.



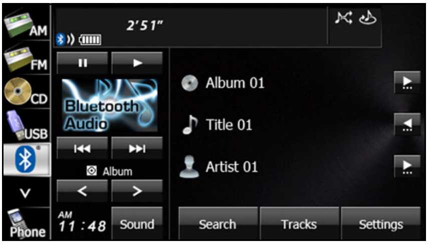
2 Touch the music album that you want to play.

- The selected music album starts to play.
- Touch ▲ or ▼ on the scroll function to scroll the display pages of the music file screen.
- Touch ↩ to return to the previous screen.



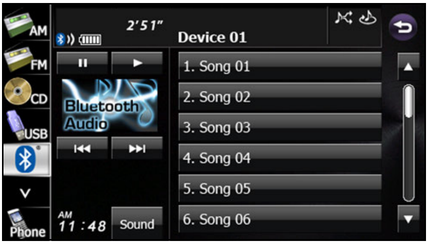
Finding a music track

1 Touch Tracks.



2 Touch the music track that you want to play.

- The selected music track starts to play.
- Touch ▲ or ▼ on the scroll function to scroll the display pages of the music album screen.
- Touch ↩ to return to the previous screen.



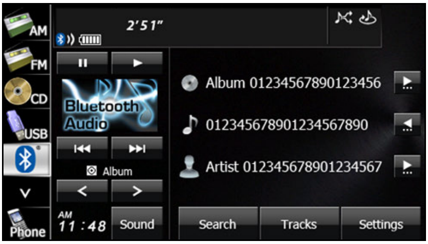
Using Bluetooth Audio

■ Scrolling title information

If the Album, Title or Artist information cannot be fully displayed because it is too long, you can scroll the display.

1 Touch ▶ on the item that you want to scroll.

- The selected title information scrolls to the left.
- Touch ◀ to stop the scrolling and return to the start of the title.
- If driving is detected while the display is being scrolled, the scrolling stops and returns to the start of the title.
- When the end of the title information is displayed, the scrolling stops.

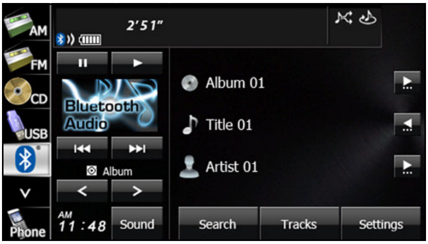


■ Various portable device settings

⚠ WARNING

Do not set a portable device while driving. Be sure to park the vehicle in a safe location and apply the parking brake before performing the settings.

1 Touch **Settings**.

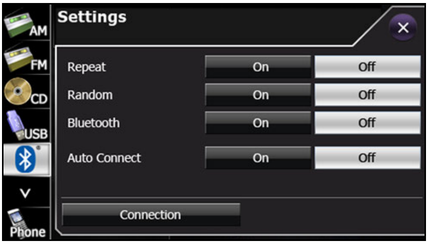


2 On the portable device Settings screen, you can perform the following settings by touching the setting switches for each item.

- Portable device settings screen

Item	Function
Repeat	Set repeat playback to on or off.
Random	Set random playback to on or off.
Bluetooth	Set the Bluetooth function to on or off.
Auto Connect	Set automatic connection between a portable device and the unit to on or off.
Connection	Display the Connect Portable Player screen to register a portable device or perform the connection settings. (See page 253)

- Touch ✕ to return to the previous screen.



Repeat setting

Set the repeat function to on or off.

1 Touch **On** or **Off**.

ATTENTION

When On is selected in Repeat, 🔁 is displayed in the top right of the screen as confirmation that the function is on.

Random setting

Set the random function to on or off.

1 Touch **On** or **Off**.

ATTENTION

When On is selected in Random, 🔀 is displayed in the top right of the screen as confirmation that the function is on.

Bluetooth setting

Set the Bluetooth function to on or off.

1 Touch **On** or **Off**.

Auto Connect setting

Set automatic connection between a registered portable device and the unit.

1 Touch **On** or **Off**.

About the Compatible Bluetooth-Supporting Devices

The following Bluetooth-supporting portable audio devices can be used.

Specification	● Bluetooth Specification Ver. 1.1 or higher (Ver. 2.0 + EDR or higher is recommended)
Profile	● A2DP (Advanced Audio Distribution Profile) Ver. 1.0 or higher ● AVRCP (Audio/Video Remote Control Profile) Ver. 1.0 or higher (Ver. 1.4 or higher is recommended)

ATTENTION

The available functions may vary depending on the type of Bluetooth audio device.

Picture Function Operations

Using the Picture Function

If you insert an SD memory card that contains image data, you can play a slide show of the images, or set an image as the Opening screen.

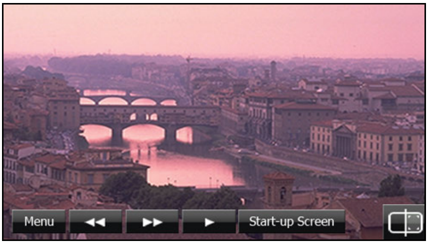
ATTENTION

- Some of the functions may not be available when vehicle is in motion.
- The navigation system is not available while using the picture function. To use the navigation system, replace the SD memory card with a map SD memory card.

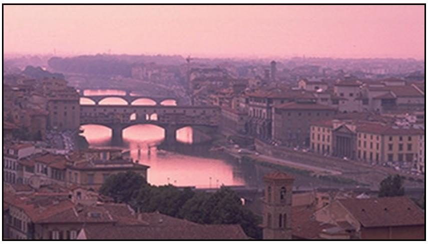
■ Displaying the picture operations screen

1 Insert a different SD memory card that contains image data. (See page 25)

2 Display the picture operations screen.



- **Menu**:
  You can display a picture list or set a slide show.
- **◀◀**:
  Display the previous image.
  ▶▶:
  Display the next image.
- **▶** (or **❚❚**):
  The slide show starts. Touch **❚❚** to stop the slide show.
- **Start-up Screen**:
  Register the displayed image data as the “Customised” opening screen setting.
- **◫**:
  Display the Audio/Multi screen. To display the picture operations screen again, touch **◫**.
- Touch the screen to show only the image on the display. To display the picture operations screen again, touch the screen.



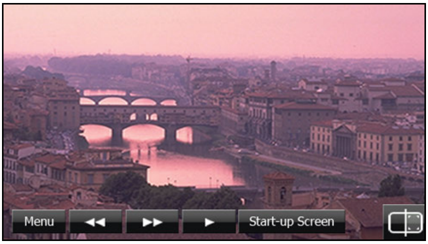
- Picture screen display

■ Replacing the Opening screen with your own image data

You can register image data (1 picture only) imported from an SD memory card as the "Customised" opening screen setting.

1 Insert an SD memory card that contains the image data. (See page 25)

2 Display the image that you want to set and touch **Start-up Screen**.



3 "Are you sure you want to overwrite the start-up screen?" appears on the screen. Touch **Yes**.

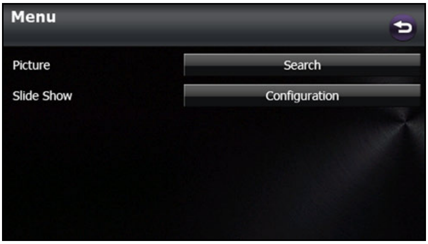
- ● The picture is registered as the "Customised" opening screen setting.

■ Selecting an image file from the picture list

You can select the image file that you want to view from a folder.

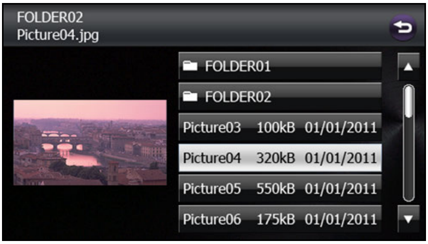
1 On the picture operations screen, touch **Menu**.

2 Touch **Search** in Picture.



3 Touch the folder that you want to use.

- ● If there are more pages, touch ▲ or ▼ to scroll the pages.
- ● Touch ↩ to return to the previous screen.


FOLDER02
Picture04.jpg
FOLDER01
FOLDER02
Picture03 100kB 01/01/2011
Picture04 320kB 01/01/2011
Picture05 550kB 01/01/2011
Picture06 175kB 01/01/2011
▲
▼

4 Touch the file that you want to view.

- ● The selected file is displayed. Touch the displayed image to show it in a Picture screen display.
- ● If there are more pages, touch ▲ or ▼ to scroll the pages.
- ● Touch ↩ to return to the previous screen.

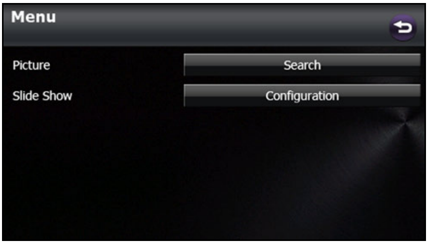
Picture Function Operations

■ Slide show setting

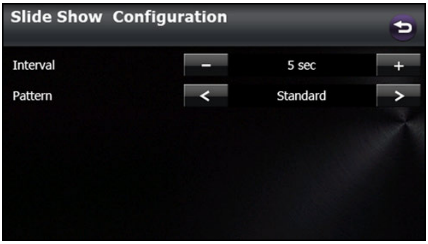
On the Slide Show Configuration screen, you can set a slide show.

1 On the picture operations screen, touch **Menu**.

2 Touch **Configuration** in Slide Show.



3 You can perform the following settings by touching the setting switches for each item.



Interval 5 sec

Pattern Standard

Interval setting

You can change the display interval of the slide show.

1 Touch **+** or **-**.

- 5 sec ⇔ 10 sec ⇔ 15 sec

Pattern setting

You can change the pattern of the slide show.

1 Touch **<** or **>**.

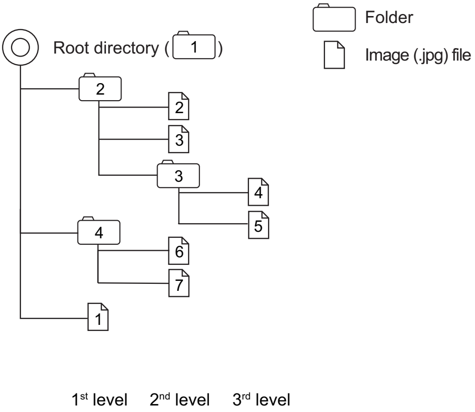
- Standard ⇔ Effect 1 ⇔ Effect 2 ⇔ Effect 3 ⇔ Effect 4 ⇔ Random ⇔ Standard ⇔ ...

About the Supported Image Data

About the supported image file standards

- Supported standards:
  jpg (does not support jpg2000)
- Supported file names:
  Supports single-byte characters (alphanumerics, symbols)
- Supported character code:
  UNICODE
- Number of characters that can be displayed:
  30 single-byte characters
  - * Only single-byte numbers, single-byte letters (upper case), "_" (underscore), symbols.
  - * Although more than 30 single-byte characters can be read.
  - * The .jpg extension is not displayed.
- Image data size:
  10 MB or less (per file)
- Number of images that can be imported from an SD memory card:
  500

[A configuration example of a jpg-supporting SD memory card]



ATTENTION

- When the image size is larger than horizontal 480 × vertical 272 dots, the original image is compressed to the standard size before display. The areas without an image are displayed as black bars.
- When the image size is smaller than horizontal 480 × vertical 272 dots, the image is displayed at the centre of the display without changing the image size.

Back Eye Camera Operations

You can view a rearward camera image on the display by shifting into reverse gear.

⚠ WARNING

The back eye camera displays a mirror-reversed video image to give the same view as the rear or side mirror. The way to view the image varies depending on the vehicle model. Be careful when using the camera.

⚠ CAUTION

When using a high-pressure car-wash machine, take care not to directly spray on or around the camera. The very high water pressure from this type of cleaning equipment may cause serious damage to the back eye camera.

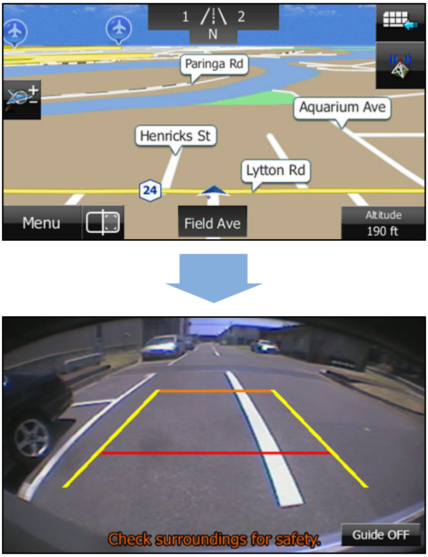
ATTENTION

- Do not rely solely on the back eye camera when motoring in reverse.
- Use the back eye camera as an additional tool to check for obstacles.
- Any moisture (rain, condensation) on the camera unit may result in a poor video image being displayed.
- Do not reverse your vehicle while only watching the monitor screen. Be sure to look through both the rear view and side mirrors and carefully check that conditions are safe around and to the rear of your vehicle.
- Do not use in the following conditions.
    - While driving on frozen, slippery or snow-covered roads
    - On non-level surfaces such as slopes
    - When the rear door is not closed completely
    - When tire chains or temporary tires are being used
- When the display is cold, it may be difficult to recognise the image because it is darker or exhibits an image lag. Be sure to check with your own eyes that conditions are safe around your vehicle while driving.
- The position and distance of the person or obstacle displayed on the screen is different from the actual position and distance because of the characteristics of the camera lens.
- Do not subject the camera unit to a strong impact, for example, by hitting the camera unit or knocking an object against it. Doing so may displace the camera position or installation angle, preventing the back eye camera from operating correctly.
- The camera unit has a waterproof structure, so do not remove, disassemble, or modify the camera unit. Doing so may prevent the back eye camera from operating correctly.
- If you rub or polish the camera cover strongly with a hard brush or abrasive, it may damage the cover and adversely affect the video image.
- The camera cover is made of plastic. Do not allow any organic solvents, body wax, oil film remover, or glass coating solvent to come into contact with the camera cover. If such a material comes into contact with to the cover, immediately wipe it off.
- If the temperature changes rapidly, such as after spilling hot water on the camera unit when it is cold, the back eye camera may not operate correctly.
- Hitting the camera unit may prevent the back eye camera from operating correctly due to a camera malfunction. Contact your dealer for an inspection at your earliest opportunity.
- Do not operate the camera facing direct sunlight for a long time. Doing so may result in burn-in.
- The photographs in this manual are examples only. The range displayed on the screen varies depending on the vehicle model.
- The screen turns white at the moment you shift into reverse gear, but the image soon stabilises.
- When bright light such as sunlight or headlights shine into the camera, a vertical white band may appear.
- If the camera is used for a long time, white spots or vertical lines appear as the temperature rises. These phenomena are caused by the CCD characteristics. The back eye camera uses a special lens. The distances perceived through viewing the video screen are different from the actual distances.

Displaying the Back Eye Camera Image

1 Shift into reverse gear.

- The screen changes to the back eye camera screen.
- When you shift to a gear other than reverse, the screen returns to the screen displayed before the rearward image.

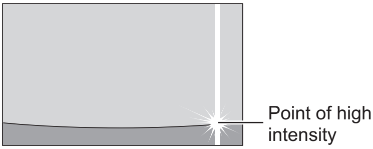


ATTENTION

- Do not reverse your vehicle while watching the monitor screen only.

  Be sure to check your rear view and side mirrors, and carefully check that conditions are safe around and to the rear of your vehicle.
- The image range displayed on the screen may vary depending on vehicle or road surface conditions.
- The image range displayed on the screen is limited. You cannot display objects near the ends of the bumper or under the bumper.
- Colours shown in the rearward image may be different from the actual colours.

- You can adjust the brightness and contrast of the screen. To adjust these settings, press **AUDIO** for 1 second or more to display the picture quality adjustment screen. (See page 46)
- To display the guide lines, touch **Guide ON**. To hide the guide lines, touch **Guide OFF**.
- In the following cases, it may be difficult to see the screen, but this is not a malfunction.
  - In dark places (or at night).
  - When the temperature near the lens is high or low.
  - When there are water drops on the camera, or when humidity is high (such as during rain showers).
  - When foreign objects (such as mud) adhere near the camera.
  - When the camera lens is directly exposed to sunlight or headlights.
  - If a high-intensity point (such as sunlight reflected on the vehicle body) is filmed by the camera, it may result in the smearing phenomenon* that is particular to CCD cameras.



- Screen appearance

* Smearing phenomenon: This phenomenon occurs when the camera films a high-intensity point (such as sunlight reflected on the vehicle body) that causes an image lag in the vertical direction above and below the point.

Back Eye Camera Operations

Adjusting the guide lines

You can adjust the Back Eye Camera guide lines as needed.

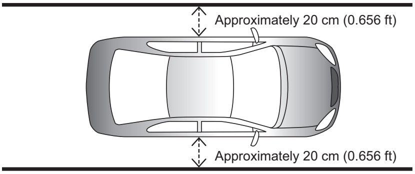
⚠ WARNING

- Be sure to turn the ignition switch off when getting off the vehicle to apply markings.
- Stop the vehicle in a safe location before adjusting the guide lines.

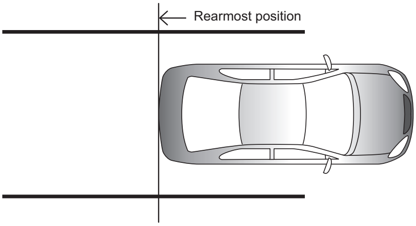
CHECK

- Before displaying the guide lines, make sure to align them with your vehicle.
- When an optional back eye camera is connected, the guide lines are set to either the normal mode. To use a mode that has not set guide lines, cancel the display of guide lines.

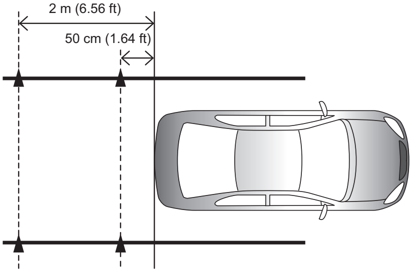
1 Apply two line markings with packing tape, etc. on the ground at a distance of approximately 20 cm (0.656 ft) from each side of the vehicle.


Approximately 20 cm (0.656 ft)
Approximately 20 cm (0.656 ft)

2 Move the vehicle approximately 2.5 m (8.2 ft) straight ahead, and then apply a line marking on the ground so that it is under the rearmost position of the vehicle.



3 Apply markings (four positions) on the ground at distances of 50 cm (1.64 ft) and 2 m (6.56 ft) from each end of the line marking that is applied as the rearmost position of the vehicle.

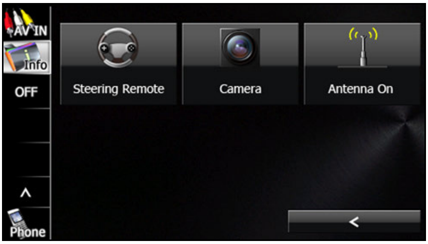


4 Touch **Info**.

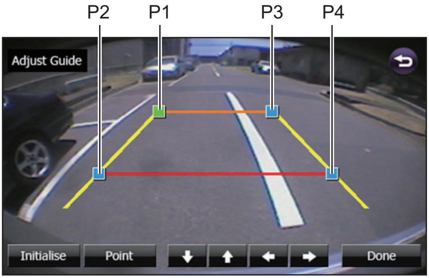
- If the Navigation screen is displayed, change to the Multi screen or Audio operations screen before performing this operation.
- If **Info** is not displayed, touch **∨**.

5 Touch **Camera**.

- If Camera switch is not displayed, touch **>** to change the page.



6 Adjust the guide lines.



- **Point**:

  Touch to change the point being adjusted.

  P1 → P2 → P3 → P4

- **⬇**, **⬆**, **⬅**, **➡**:

  Touch each switch to adjust the selected point.

- **Initialise**:

  Touch to return the point to its original position.

- **↩**:

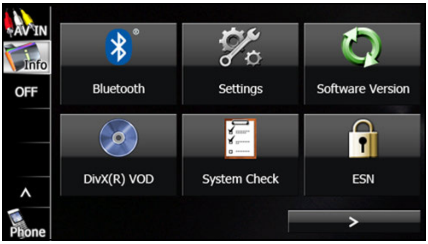
  Touch **↩** to return to the previous screen.

7 Touch **Done**.

Back Eye Camera Screen Setting

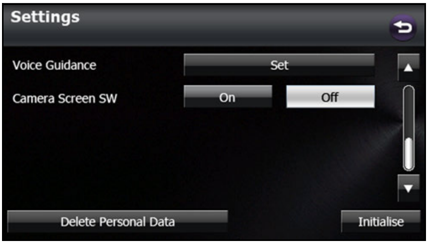
You can display the back eye camera screen while driving without shifting into the reverse gear.

1 On the Info screen, touch **Settings**.



2 Touch **On** in Camera Screen SW.

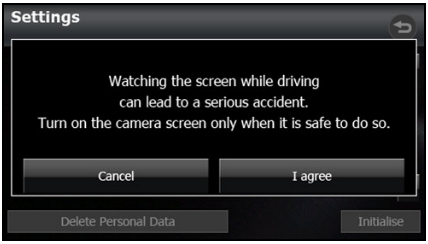
- If Camera Screen SW is not displayed, touch **▼** to change the page.



Back Eye Camera Operations

3 Touch **I agree**.

- Touch **Cancel** to cancel the Camera Screen SW setting and return to the previous screen.



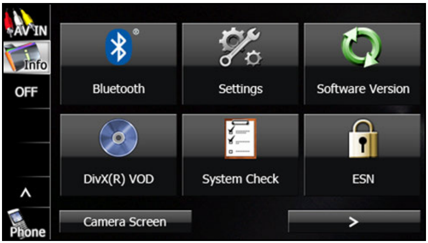
Settings

Watching the screen while driving
can lead to a serious accident.
Turn on the camera screen only when it is safe to do so.

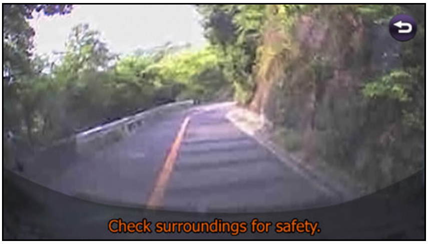
4 Touch **⮌**.

5 On the Info screen, touch **Camera Screen**.

- The screen changes to the back eye camera screen.



- Touch **⮌** to return to the previous screen.



Check surroundings for safety.

- Back eye camera screen display

About Steering Wheel Switches

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

There are two methods to set the steering wheel switches: “Data Import” and “Manual Setting”. “Data Import” is only supported to the models for North America and Europe.

- For details of the steering wheel switch, please contact your local dealer.
- This function may not be available depending on the vehicle type.

Manual setting of steering wheel switch functions

You can manually assign the desired functions to every steering wheel switch switches.

⚠ IMPORTANT

Your manual setting may fail due to the ambient environments including the outdoor temperature.

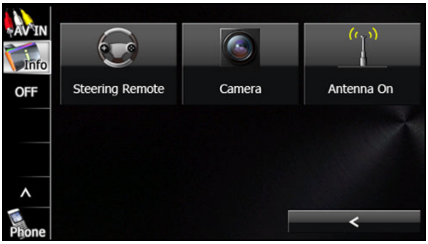
1 Press AUDIO.

2 Touch Info.

- If Info is not displayed, touch ∨.

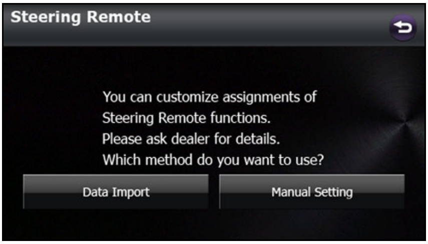
3 Touch Steering Remote.

- If Steering Remote switch is not displayed, touch > to change the page.
- Audio is turned OFF when Steering Remote is touched.



4 Touch Manual Setting.

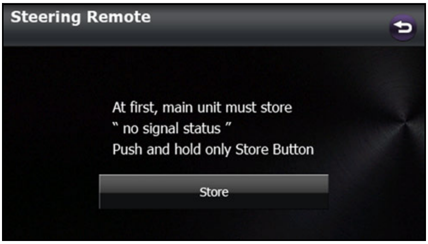
- Touch ↩ to return to the immediately previous screen.



You can customize assignments of
Steering Remote functions.
Please ask dealer for details.
Which method do you want to use?

5 Touch Store until the Command Select screen is displayed.

- Touch ↩ to return to the immediately previous screen.

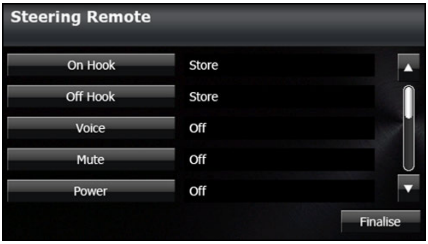


At first, main unit must store
“ no signal status ”
Push and hold only Store Button

About Steering Wheel Switches

6 Touch the command you wish to set.

- Next page is displayed by touching ▲ or ▼.

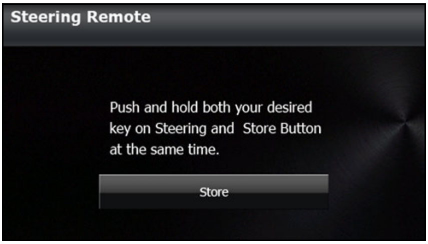


Steering Remote

On Hook Store
Off Hook Store
Voice Off
Mute Off
Power Off

7 While pressing the steering switch to record, touch the Store until a beep sounds.

- It will display Completed when the setting is completed, then it will return to Command Select screen and displays Store on the set command.
- “Error, try once again” is displayed when the data reading fails.

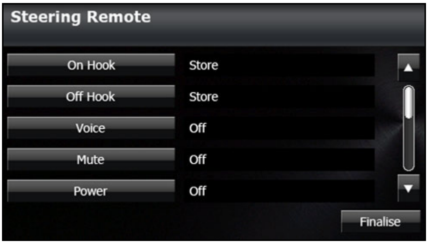


Steering Remote

Push and hold both your desired key on Steering and Store Button at the same time.

8 Assign the desired functions to the steering wheel switch switches by repeating Steps 6 through 7.

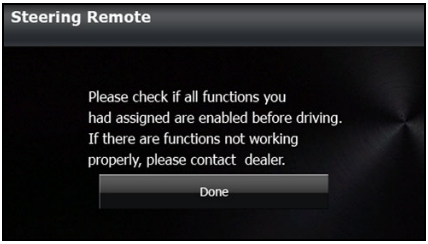
9 Touch Finalise.



Steering Remote

On Hook Store
Off Hook Store
Voice Off
Mute Off
Power Off

10 Touch Done after confirming the final confirmation screen.



Steering Remote

Please check if all functions you had assigned are enabled before driving. If there are functions not working properly, please contact dealer.

ATTENTION

If “Error, try once again” is shown on the display, once again select a desired function to set.

Compatibility with Steering Wheel Switches

The table below shows the compatibility between the steering wheel switches and this receiver.

Operation	Switch	Name	Function	Explanation of operation
Common operations	(+) (-)	Volume switch	When these switches are pressed briefly, the volume changes by 1 step. When these switches are pressed and held, the volume changes continuously.	(+): Increases the volume (in BT-TEL mode, the ringtone volume, call volume and readout volume or in voice recognition mode, the guidance volume). (-): Decreases the volume (in BT-TEL mode, the ringtone volume, call volume and readout volume or in voice recognition mode, the guidance volume).
	(MODE)	Mode selection switch	● When this switch is pressed while the power is off, the power turns on. ● The mode changes in the following order. AM → FM → DISC* (CD, MP3/WMA, DVD) → USB* → iPod* → BTAudio* → VTR* → returns to AM.	When the power is on, the mode changes each time (MODE) is pressed. Cannot be operated while making a calling, receiving a call, or talking in BT-TEL mode.
	(🗣)	Voice recognition trigger	● Starts voice recognition. ● Skips guidance voice, talkback voice, or help voice. ● Ends voice recognition.	Press (🗣) briefly to start voice recognition. Press (🗣) during guidance voice, talkback voice, or help voice to skip the audio. Press (🗣) during voice recognition to close the voice recognition screen.
	(MUTE)	Mute switch	Mutes or cancels the mute.	Pressing (MUTE) mutes the sound. Pressing (MUTE) while muting cancels the mute.
	(POWER)	Power off switch	Audio off.	Pressing (POWER) turns the power of the audio off.

About Steering Wheel Switches

Operation	**Switch**	**Name**	**Function**	**Explanation of operation**
Radio operations	(∧) (∨)	Channel selection switches	● Selects in order the stations saved in the memory. ● Selects automatically the channel closest to the currently received frequency. ● Selects in order the stations in the station list. (In FM radio mode only)	Press (∧) or (∨) briefly to select the stations in order. Press and hold (∧) or (∨) to start the automatic station selection operation. Keep pressing (∧) or (∨) to start SEEK to search a frequency quickly. The nearest broadcasting station from the frequency where the switch was released can be received.
CD player operations*	(∧) (∨)	Track selection switches	● Selects the next track, previous track, or start of the current track. ● Fast forwarding or fast reversing.	Press (∧) or (∨) briefly to select the next or previous track. Press and hold (∧) or (∨) to fast forward or fast reverse the track.
MP3/WMA player operations*	(∧) (∨)	File selection switches	● Selects the next file, previous file, or start of the current file. ● Selects the next or previous folder.	Press (∧) or (∨) briefly to select the next or previous file. Press and hold (∧) or (∨) to select the next or previous folder.
DVD player operations*	(∧) (∨)	Chapter selection switch	● Selects the next track, previous chapter, or start of the current chapter. ● Fast forwarding or fast reversing.	Press (∧) or (∨) briefly to select the next or previous chapter. Press and hold (∧) or (∨) to fast forward or fast reverse the chapter.
USB operations*	(∧) (∨)	File selection switches	● Selects the next file, previous file, or start of the current file. ● Selects the next or previous folder.	Press (∧) or (∨) briefly to select the next or previous file. Press and hold (∧) or (∨) to select the next or previous folder.
iPod and BT-Audio operations*	(∧) (∨)	Track selection switches	● Selects the next track, previous track, or start of the current track. ● Fast forwarding or fast reversing.	Press (∧) or (∨) briefly to select the next or previous track. Press and hold (∧) or (∨) to fast forward or fast reverse the track.

Operation	Switch	Name	Function	Explanation of operation
BT-TEL operations*	(☎)	On Hook	● Ending a call. ● Cancelling a call. ● Refuse the incoming call. ● Holding the incoming call.	Press ☎ briefly to end a call or cancel a call. Press and hold ☎ to end the all call. When in incoming call, press ☎ briefly to hold the incoming call.
	(☎)	Off Hook	● Selects the telephone mode. ● Making a call. ● Receiving the incoming call. ● Connecting the call on hold.	Press ☎ briefly to make or receive a call. When in a different mode, changes to the telephone mode. On the incoming call on hold, press ☎ briefly to receive a call.

* Enabled only when operation is possible

Voice Control System Operations

About the Voice Control System

By using the voice control system (voice input microphone and switch), you can perform navigation and audio operation by saying voice commands. This enables you to use functions that are usually inoperable while driving.

The voice control system may not recognise the voice command if you do not say it correctly.

Be aware of the following points that will assist correct recognition.

- Speak after you hear the “beep”. If you speak before or at the same time as the “beep”, your command will not be recognised.
- Speak in a loud and clear voice.
- Some voices may be difficult to recognise.
- Keep the windows closed as much as possible while speaking. Noise such as wind or other external sounds may prevent correct recognition. Also, if the air conditioner fan is too loud, it may prevent correct recognition.
- The system does not support regional variations or alternative phrases. Be sure to say the specified phrases.

Under the following conditions, the voice recognition mode will be turned off:

- Within 8 seconds after guidance, talkback or help voice finishes playing, no voice is recognised.

  (When the screen is operated, counting of 8 seconds starts again after the screen is touched.)
- The button is pressed and held.
- The Steering button or Hard button is pressed.
- The current screen changes to the back eye camera screen when shifting into the reverse gear.
- A call is received.

ATTENTION

When voice recognition is started, the current audio output is muted or paused.

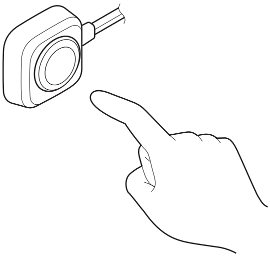
Using the Voice Control System

When the voice control system is activated, you may speak the controls displayed on the screen, or you may touch the corresponding button.

CHECK

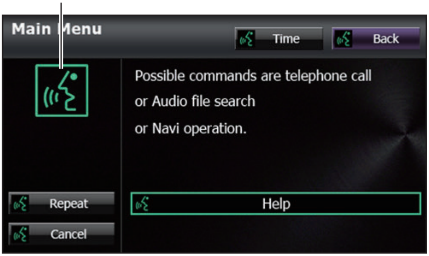
For the following instructions found in this manual, we will use “000” as a placeholder for the command text available on your actual system. “000” is only for demonstration purposes.

1 Press the voice recognition button.



- The screen changes to the Main Menu.

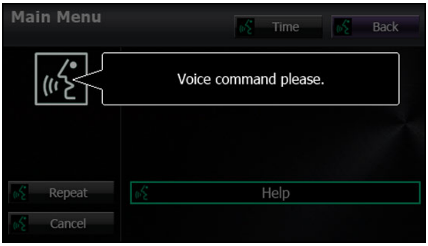
“Voice recognition on” mark



Possible commands are telephone call or Audio file search or Navi operation.

- 〇〇〇:
  “〇〇〇” or touch the switch.
- 〇〇〇:
  Operate by saying “〇〇〇”.

2 After the “Voice command please.” voice guidance, a “beep” sounds.

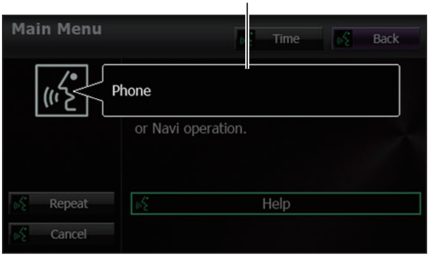


Voice command please.

3 Say the operation command.

- After you hear the “beep”, speak or operate the screen while a “recognition mark (green-faced icon)” is displayed (within approx. 8 seconds).
- If you said the wrong command or the recognition result is incorrect, cancel the operation by saying “Cancel” after the talkback voice finishes playing.

Recognition result



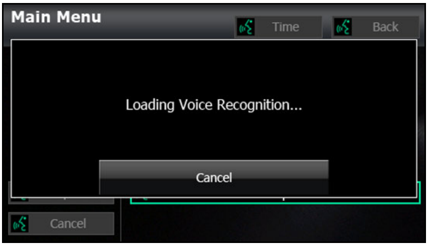
Phone

or Navi operation.

- When the voice recognition button is pressed while guidance voice, talkback voice or help voice is being played, you can skip the voice guidance.
- When you say “Help” while the Main Menu is displayed, a list of the currently usable commands appears on the screen.

ATTENTION

A caution display appears after pressing the voice recognition button (External microphone/Steering Wheel Switch) while a Bluetooth device, USB device or iPod is connected, and the stored data is being read. Be sure to start the operation after the caution display disappears.



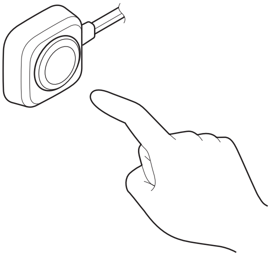
Loading Voice Recognition...

Voice Control System Operations

Displaying the Command List

You can display a list of the usable commands on the screen.

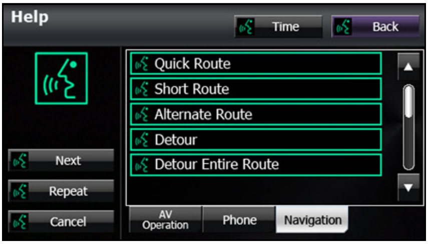
1 Press the voice recognition button.



- The screen changes to the Main Menu, and after the “Voice command please.” voice guidance, a “beep” sounds.

2 Say “Help”.

- The command list appears.
- If there are more pages, touch ▲ or ▼ to scroll the list.



- **Next**:
  Display the next page of the command list.
  AV Operation:
  Display the command list for the current audio operation. (Only when an audio source is being used.)
  Phone:
  Display the handsfree operation command list. (Only during handsfree connection.)
  Navigation:
  Display the navigation operation command list.

3 Check the command that you want to use in the command list.

- You can perform the operation by saying the displayed command.

Examples of Using the Voice Control System

This section describes examples of operating the voice control system. For the voice commands, see “Voice Command Lists” on page 279.

The notations used in the commands are as follows.

- <○○○>: Commands to be spoken
- → ○○○: Names to be spoken

■ Specifying a folder

(Switching USB folders)

1 Say “Folder”.

- After you hear “Folder” spoken back to you, the current mode changes to the folder specification mode.

  (The screen also changes.)

2 After the voice guidance, say the name of the folder that you want to play.

- Starting from the first track of the specified folder, all tracks in the folder will be switched from one to the next after your voice command.
  - * iPod mode allows you to specify the desired music track from artist, genre or playlist.
  - * A maximum of 1000 music tracks can be specified (when specifying from genre or playlist, a maximum of 100).

■ Making a call with the phone book

1 Say “Phone”.

- After you hear “Hands-Free” spoken back to you, the current mode changes to the hands-free menu mode.

  (The screen also changes.)

2 After the voice guidance, say “Call <Name>”.

- If there are multiple candidates, follow the voice guidance and say a list number.
- If there are multiple telephone numbers, follow the voice guidance and say a location.
- Under the following conditions, some of registered names and telephone numbers will be deleted from the multiple candidates.
  - When multiple registered names of completely identical characters are found, the first name to be found will be the candidate.
  - When there are multiple identical locations registered in one phone book, the first location to be found will be the candidate.

3 After notifying the name of the person you want to call by the voice guidance, if you hear the name of the right person spoken back to you, say “Yes”.

- A call is made to the selected person's telephone number.
- If the name of the selected person is wrong, say “No”.

Voice Control System Operations

■ Using the Speed Dial to make a call

1 Say “Handsfree”.

- After you hear “Handsfree” spoken back to you, the current mode changes to the handsfree menu mode.

  (The screen also changes.)

2 Say “Speed Dial 1”.

- The candidate registered in the Speed Dial 1 will be selected.

3 After notifying the number of the Speed Dial by the voice guidance, if you hear the name of the right person spoken back to you, say “Yes”.

- A call is made to the selected Speed Dial number.
- If the number of the selected Speed Dial is wrong, say “No”.

■ Using the Dial to make a call

1 Say “Handsfree”.

- After you hear “Handsfree” spoken back to you, the current mode changes to the handsfree menu mode.

  (The screen also changes.)

2 Say “Dial”.

- After you hear “Dial” spoken back to you, the current mode changes to the dial calling mode.

3 Say “123” (dial number).

- The dial calling mode allows you to say the desired dial number with any number of digit at a time.

4 Notify “123” by voice command.

- When adding a dial number, speak the number you want to add as in step 3.

  (Notify the added dial number by voice command.)
- When you dial the wrong number, speak “Delete” to delete the digits of the number that you spoke last.

  (After the delete, notify all of the remaining dial number.)

5 Say “Call”.

- A call is made to the selected dial number.

Voice Command Lists

The navigation or audio control function enables you to operate the navigation or audio system by voice, using the voice input microphone and switch. This section shows the voice command lists for voice control operations.

The notations used in the commands are as follows.

- [○○○]:Commands that need not to be spoken
- <○○○>: Numbers or names to be spoken
- → ○○○: Commands to be spoken after the voice guidance

■ Command for changing to the handsfree mode

Enabled in all screens.

Voice command	Phrase	Function
Phone	**Handsfree**, **Phone**	Sets to handsfree mode

■ Command for changing to the navigation mode

Enabled in all screens.

Voice command	Phrase	Function
Navigation	**Navigation**	Changes to the Navigation screen

■ Commands available with USB

Enabled when the audio mode is USB.

Voice command	Phrase	Function
Search folder	**Folder** → **<Folder Name>**	Searches for a folder

■ Commands available with iPod

Enabled when the audio mode is iPod.

Voice command	Phrase	Function
Search artist	**Artist** → **<Artist Name>**	Searches using an artist
Search genre	**Genre** → **<Genre Name>**	Searches using a genre
Search playlist	**Playlist** → **<Playlist Name>**	Searches using a playlist

Voice Control System Operations

■ Commands available in handsfree mode

Enabled when the audio mode is handsfree.

Voice command	Phrase	Function
Call name	**Call <Phone Name> → <1~3> → <Home, Office, Work, Mobile, Other> → <Yes, Yeah, Yep>, <No, Nope>**	Makes a call by using the phone book
Call name location	**Call <Phone Name> → <Home, Office, Work, Mobile, Other> → <Yes, Yeah, Yep>, <No, Nope>**	Makes a call by using the phone book and specifying a location
Speed dial	**Speed dial → <Number> → <Yes, Yeah, Yep>, <No, Nope>**	Makes a call by using the Speed dial list
	Speed dial <Number> → <Yes, Yeah, Yep>, <No, Nope>	Makes a call by specifying a speed dial number
History	**History → Outgoing** [*Call*], **Incoming** [*Call*] → **<Number> → <Yes, Yeah, Yep>, <No , Nope>**	Makes a call by using the call history
Dial number	**Dial <Number(0~9, Plus, Hash, Star)> → Call, Delete**	Makes a call by entering a telephone number
	Dial [*Number*] → **<Number(0~9, Plus, Hash, Star)> → Call, Delete**	
Redial	**Redial →<Yes, Yeah, Yep>, <No, Nope>**	Makes a call by using the outgoing call history

- If there are multiple candidates in the phone book, up to 3 are read out in a list.
- If there are multiple names that match exactly, the first candidate to be found is read out.
- If there are locations of the same name in the phone book, the first candidate to be found is read out.

■ Commands available in navigation mode

Enabled when the audio mode is navigation.

ATTENTION

Do not press voice recognition button (External microphone/Steering Wheel Switch) without touching I Agree on the Caution screen. Otherwise, Navigation commands cannot be used.

Quick Commands

Voice command	Phrase	Function
Accommodation*	**Accommodation**	Narrows down POI search targets to accommodations
Accommodation along route	**Accommodation along route**	Searches for accommodations along the route
Accommodation at my destination	**Accommodation at my destination**	Searches for accommodations around the destination
Accommodation near here	**Accommodation near here**	Searches for accommodations around the current position
Address	**Address**	Transits to the screen that allows you to search for the destination by reading the address
Avoid	**Avoid**	Transits to the screen that allows you to set detour routes
Delete route	**Delete route**	Deletes the route that has been set
Favourite	**Favourite**	Selects the conditions to set the destination from your favourite spots
Find	**Find**	Transits to the destination search screen
Help	**Help**	Transits to the voice recognition mode's help screen
History	**History**	Sets the destination from the search history results
Info	**Info**	Reads the route information that has been set (after the voice recognition mode is turned off)
More	**More**	Transits to the information list reception screen

Voice Control System Operations

Voice command	Phrase	Function
Parking*	**Parking**	Narrows down POI search targets to parking lots
Parking along route	**Parking along route**	Searches for parking lots along the route
Parking at my destination	**Parking at my destination**	Searches for parking lots around the destination
Parking near here	**Parking near here**	Searches for parking lots around the current position
Petrol station*	**Petrol station**	Narrows down POI search targets to petrol stations
Petrol station along route	**Petrol station along route**	Searches for petrol stations along the route
Petrol station at my destination	**Petrol station at my destination**	Searches for petrol stations around the destination
Petrol station near here	**Petrol station near here**	Searches for petrol stations around the current position
Restaurant*	**Restaurant**	Narrows down POI search targets to restaurants
Restaurant along route	**Restaurant along route**	Searches for restaurants along the route
Restaurant at my destination	**Restaurant at my destination**	Searches for restaurants around the destination
Restaurant near here	**Restaurant near here**	Searches for restaurants around the current position
Place	**Place**	Selects POI search as the destination search method (POI search method searches only for petrol stations, accommodations, parking lots and restaurants.)
Route	**Route**	Transits to the route editing screen
Where am i	**Where am i**	Displays the vehicle position information

* Searches for candidates close to your vehicle's position.

Full Commands

Voice command	Phrase	Function
Accept	**Accept**	Accepts questions (such as talkback)
	OK	
	Yes	

Voice command	Phrase	Function
Accommodation along route	[*Find* , *Search for* , *Look for*] [*a* , *an*] **Accommodation along route**	Searches for accommodations along the route
	[*Find* , *Search for* , *Look for*] [*a* , *an*] **Accommodation along** [*the*] **way**	
Accommodation at my destination	[*Find* , *Search for* , *Look for*] [*a* , *an*] **Accommodation at** [*my* , *the*] **destination**	Searches for accommodations around the destination
	[*Find* , *Search for* , *Look for*] **Hotels at** [*my* , *the*] **destination**	
	[*Find* , *Search for* , *Look for*] **Motels at** [*my* , *the*] **destination**	
Accommodation near here	[*Find* , *Search for* , *Look for*] [*an*] **Accommodation nearby**	Searches for accommodations around the current position
	[*Find* , *Search for* , *Look for*] [*an*] **Accommodation** [*around* , *near*] **here**	
	[*Find* , *Search for* , *Look for*] **Hotels** [*around* , *near*] **here**	
	[*Find* , *Search for* , *Look for*] **Motels** [*around* , *near*] **here**	
Accommodation*	[*Find* , *Search for* , *Look for*] **Accommodation**	Narrows down POI search targets to accommodations
	[*Find* , *Search for* , *Look for*] **Hotels**	
	[*Find* , *Search for* , *Look for*] **Motels**	
Address	[*Find* , *Search for* , *Look for*] [*an*] **address**	Transits to the screen that allows you to search for the destination by reading the address
Along route	**Along route**	Narrows down the selected POI search candidates to places along the route
	On route	
	On the way	
	Along the way	
At my destination	**At** [*my* , *the*] **destination**	Narrows down the selected POI search candidates to places around the destination
Avoid	**Avoid**	Transits to the screen that allows you to set detour routes
	Bypass	
Back	**Back**	Transits to the previous screen

Voice Control System Operations

Voice command	Phrase	Function
Bottom	[*Go* , *Jump* , *Move* , *Scroll*] [*to*] [*the*] **Bottom**	Transits to the bottom of the list.
	[*Go* , *Jump* , *Move* , *Scroll*] [*to*] [*the*] **End**	
Cancel	**Cancel**	Exits from the voice recognition mode and transits to the map, main or other menu.
Change city	**Change city** [*name*]	Changes the city name in the address currently being recognised (in the voice recognition mode)
	Different city [*name*]	
	New city [*name*]	
	Wrong city [*name*]	
Change house number	**Change** [*house*] **number**	Changes the house number in the address currently being recognised (in the voice recognition mode)
	Different [*house*] **number**	
	New [*house*] **number**	
	Wrong [*house*] **number**	
Change street in line 1	**Change street in line 1**	Changes the city name listed in the first line of the list and currently being recognised (on the screen that allows you to select a list when addresses are recognised in the voice recognition mode)
	Different street in line 1	
	New street in line 1	
	Wrong street in line 1	
Change street in line 2	**Change street in line 2**	Changes the city name listed in the second line of the list and currently being recognised (on the screen that allows you to select a list when addresses are recognised in the voice recognition mode)
	Different street in line 2	
	New street in line 2	
	Wrong street in line 2	
Change street in line 3	**Change street in line 3**	Changes the city name listed in the third line of the list and currently being recognised (on the screen that allows you to select a list when addresses are recognised in the voice recognition mode)
	Different street in line 3	
	New street in line 3	
	Wrong street in line 3	

Voice command	Phrase	Function
Change street in line 4	**Change street in line 4**	Changes the city name listed in the fourth line of the list and currently being recognised (on the screen that allows you to select a list when addresses are recognised in the voice recognition mode)
	Different street in line 4	
	New street in line 4	
	Wrong street in line 4	
Change street	**Change street**	Changes the street name in the address currently being recognised (in the voice recognition mode)
	Different street	
	New street	
	Wrong street	
Delete route	**Delete** [*my* , *the*] **route**	Deletes the route that has been set
	Cancel [*my* , *the*] **route**	
Delete	**Delete**	
Destination	**Destination**	Sets the selected route as the destination
Down	[Page , Scroll , move] **Down**	Moves the list on the list screen one page down
Favourite	[*Find* , *Select* , *Search for* , *Look for*] [*a*] **Favourite**	Selects the conditions to set the destination from your favourite spots
	[*Find* , *Select* , *Search for* , *Look for*] **Favourites**	
Find	**Find**	Transits to the destination search screen
	Search	
Go map	[*Go*] [*to*] [*the*] **Map** [*screen*]	Transits to the Map screen
	Show [*me*] [*the*] **map**	
Go	**Go**	Reflects the selected route and starts the navigation guidance
Half	**Half**	Reduces the detour distance set on the avoid route screen by half
Help	**Help**	Transits to the voice recognition mode's help screen
History	[*Find*] [*in*] **History**	Sets the destination from the search history results
House number	**House number**	Transits to the house number reception screen (when searching for the address)
	Street number	
Less	**Less**	Reduces the detour distance set (on the avoid route screen)

Voice Control System Operations

Voice command	Phrase	Function
Line 1	[*Line*] **1**	Selects the item listed in the first line of the list (on the screen where the list is displayed)
	First [*line*]	
Line 2	[*Line*] **2**	Selects the item listed in the second line of the list (on the screen where the list is displayed)
	Second [*line*]	
Line 3	[*Line*] **3**	Selects the item listed in the third line of the list (on the screen where the list is displayed)
	Third [*line*]	
Line 4	[*Line*] **4**	Selects the item listed in the fourth line of the list (on the screen where the list is displayed)
	Fourth [*line*]	
Middle	[*Go* , *Jump* , *Move* , *Scroll*] [*to*] [*the*] **Middle**	Transits to the middle of the list (on the screen where the list is displayed)
More	**More**	Transits to the information list reception screen
Near here	**Near here**	Narrows down the selected POI search candidates to places along the route
	Nearby around here	
	In the vicinity	
New route	**New route**	Registers the selected destination as a new destination
Next	**Next**	Transits to the next screen
No	**No**	Rejects questions or other contents spoken to you
	Nope	
	Nop	
Parking along route	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking along route**	Searches for parking lots along the route
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parks along route**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Park along route**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking along the way**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parks along the way**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Park along the way**	

Voice command	Phrase	Function
Parking at my destination	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking at** [*my* , *the*] **destination**	Searches for parking lots around the destination
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parks at** [*my* , *the*] **destination**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Park at** [*my* , *the*] **destination**	
Parking near here	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking nearby**	Searches for parking lots around the current position
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking around here**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parks around here**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Park around here**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking near here**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parks near here**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Park near here**	
Parking*	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parking**	Narrows down POI search targets to parking lots
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Parks**	
	[*Find* , *Search for* , *Look for*] [*a*] [*car*] **Park**	
Petrol station along route	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station along route**	Searches for petrol stations along the route
	[*Find* , *Search for* , *Look for*] [*a*] **Service station along route**	
	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station along the way**	
	[*Find* , *Search for* , *Look for*] [*a*] **Service station along the way**	
Petrol station at my destination	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station at** [*my* , *the*] **destination**	Searches for petrol stations around the destination
	[*Find* , *Search for* , *Look for*] [*a*] **Service station at** [*my* , *the*] **destination**	

Voice Control System Operations

Voice command	Phrase	Function
Petrol station near here	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station nearby**	Searches for petrol stations around the current position
	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station around here**	
	[*Find* , *Search for* , *Look for*] [*a*] **Service station around here**	
	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station along the way**	
	[*Find* , *Search for* , *Look for*] [*a*] **Service station along the way**	
Petrol station*	[*Find* , *Search for* , *Look for*] [*a*] **Petrol station**	Narrows down POI search targets to petrol stations
	[*Find* , *Search for* , *Look for*] [*a*] **Service station**	
Place	[*Find* , *Search for* , *Look for*] [*a*] **Place**	Selects POI search as the destination search method (POI search method searches only for petrol stations, accommodations, parking lots and restaurants.)
	[*Find* , *Search for* , *Look for*] **Places**	
	[*Find* , *Search for* , *Look for*] [*a*] **Point of interest**	
	[*Find* , *Search for* , *Look for*] [*a*] **P O I**	
Read out	**Read out** [loud]	Reads the search results on the list displayed on the screen
Restaurant along route	[*Find* , *Search for* , *Look for*] [*a*] **Restaurant** [*along* , *on*] **route**	Searches for restaurants along the route
	[*Find* , *Search for* , *Look for*] [*a*] **Restaurants** [*along* , *on*] **route**	
	[*Find* , *Search for* , *Look for*] [*a*] **Restaurant along the way**	
	[*Find* , *Search for* , *Look for*] [*a*] **Restaurants along the way**	
Restaurant at my destination	[*Find* , *Search for* , *Look for*] [*a*] **Restaurant at** [*my* , *the*] **destination**	Searches for restaurants around the destination
	[*Find* , *Search for* , *Look for*] **Restaurants at** [*my* , *the*] **destination**	
Restaurant near here	[*Find* , *Search for* , *Look for*] [*a*] **Restaurant nearby**	Searches for restaurants around the current position
	[*Find* , *Search for* , *Look for*] [*a*] **Restaurant** [*around* , *near*] **here**	
	[*Find* , *Search for* , *Look for*] **Restaurants** [*around* , *near*] **here**	

Voice command	Phrase	Function
Restaurant*	[*Find* , *Search for* , *Look for*] [*a*] **Restaurant**	Narrows down POI search targets to restaurants
Info	**Info**	Reads the route information that has been set (after the voice recognition mode is turned off)
	Information	
Route info	**Route info**	
	Route information	
Route	[*My*] **Route**	Transits to the route editing screen
Street centre	[*Street*] **Centre**	Sets the centre of the street as the address (when addresses are recognised in the voice recognition mode)
Top	[*Go* , *Jump* , *Move* , *Scroll*] [*to*] [*the*] **Top**	Transits to the top of the list (on the screen where the list is displayed)
Up	[*Page* , *Scroll* , *Move*] **Up**	Moves the list one page up (on the screen where the list is displayed)
Waypoint	**Waypoint**	Registers the selected destination as a relay point
Where am i	**Where am i**	Displays the vehicle position information
Yes	**Yes**	Accepts questions or other contents spoken to you
	Yep	
	Yeah	

* Searches for candidates close to your vehicle's position.

- Commands on the touch screen that cannot be operated have their colours toned down.

■ Other Commands

Enabled in the Main Menu.

Voice command	Phrase	Function
Time	[*What's the*] **Time, What time is it now**	Reads out the current time
Cancel	**Cancel**	Closes the voice recognition screen
Help	**Help**	Displays the help screen
Back	[*Go*] **Back**	Returns to the previous screen
Repeat	**Repeat**	Repeats the guidance voice
Change	**Change, Next**	Changes the display screen

Useful Information

If the Following Messages Appear

If the following messages appear, check by referring to the cause and action below.

Message	Cause	Action
Common operations		
Temperature is too high. Restart after a few minutes.	The temperature inside the unit is abnormally high.	Wait until the temperature decreases.
Temperature is too low. Restart after a few minutes.	The temperature inside the unit is abnormally low.	Wait until the temperature increases.
Program loading is necessary. Please insert SD card.	The “SD memory card” containing the update program is not inserted.	Insert the “SD memory card” containing the update program.
Unable to read program. Please check SD card or program.	Cannot read the “SD memory card” for some reason.	Check the “SD memory card”.
Installing failed.	Failed to install the software.	Install again.
No map data found. Please insert the unit's dedicated SD card again.	The “SD memory card” containing the map data is not inserted.	Insert the “SD memory card” containing the map data.
Unable to read data. Please check SD card.	Cannot read the “SD memory card” for some reason.	Check the “SD memory card”.
Unable to read map data. Please check SD card.	An “SD memory card” other than the one containing the map data is inserted.	Insert the “SD memory card” containing the map data.
Map/application authorisation failed. Please check SD card.	Failed to authorise the map or application.	Check the “SD memory card”.
Please insert a SD card.	The “SD memory card” is missing.	Insert an “SD memory card”.
In FM radio mode		
List is empty	Because the station list cannot be changed.	Stop using the device for a short time and then try again.
In CD or MP3/WMA mode		
Check DISC.	The disc is dirty or damaged.	The inserted disc is dirty or upside down. Check the disc for dirt and check its orientation. If the disc is dirty, clean it. If the disc is upside down, orient it correctly. Do not use scratched or warped discs.
DISC Error.	The CD·MP3/WMA player is not operating for some reason.	Eject the disc.
Error (temperature is too high).	The temperature of the CD·MP3/WMA player is abnormally high.	Wait until the temperature decreases without performing any operations.*
No music files found.	No playable music data is recorded on the CD-R/RW disc.	Insert a CD-R/RW disc on which playable music data is recorded.

Message	Cause	Action
No support.	Non-supported music data is recorded, or license-controlled music data is detected.	Insert a CD-R/RW disc on which playable music data is recorded.
In USB mode		
Check USB.	Playback failure or communication abnormality.	Reconnect the USB memory.
No music files found.	No playable music data is stored in the USB memory.	Connect a USB memory in which playable music data is stored.
No support files.	No supported files are stored in the USB memory.	Check the files.
Error	● Because playback stopped due to a factor in the main unit. (File access failure etc.) ● Because an over current was detected.	Stop using the device for a short time and then try again.
Authorisation Error Player not authorised to play this video.	The files are copyright-protected. DivX files purchased with a registration code other than the code of this unit cannot be played.	Check the files.
View DivX(R) VOD Rental Rental has ** views left. Watch movie now? [Yes]/[No]	Displays the remaining views for the file.	Follow the instructions on the screen.
Rental Expired.	The view limit has been reached.	Connect a USB memory that contains a video file with remaining views.
This function is currently disabled.	A function was selected that cannot be used while the vehicle is in motion.	Park the vehicle and apply the parking brake.
Reading INDEX ** %	The file reading percentage display.	Do not operate until the file reading is complete.
Video framerate not supported.	The video frame rate is not supported.	Connect a USB memory in which playable video files are stored.
Video resolution not supported.	The video resolution is not supported.	Connect a USB memory in which playable video files are stored.
Audio format not supported.	No playable audio format is stored in the USB memory.	Connect a USB memory in which a playable audio format is stored.
No video files found.	No playable video files are stored in the USB memory.	Connect a USB memory in which playable video files are stored.

Useful Information

Message	Cause	Action
In iPod mode		
iPod error.	Playback failure or communication abnormality.	Reconnect the iPod.
Please check the iPod firmware version.	A communication error, a playback error, the iPod software is not supported, or a control target error.	Connect a playable iPod. Reconnect the iPod.
No music files found.	No playable music data is stored in the iPod.	Connect an iPod in which playable music data is stored.
iPod authorisation failed.	Failed to authorise the iPod, or reauthorisation is required.	Reconnect the iPod.
No support video files.	Displayed when a movie is played in the video mode of iPod 5G.	Select a playable file.
No video files found.	No playable video files are stored in the iPod.	Connect an iPod in which playable video files are stored.
Searching iPod. Please wait...	Displayed if play is not possible when the iPod source is selected. Also displayed when waiting for skip when up/down is initially operated.	Wait for a few moments before operating.
In Bluetooth Audio mode		
No music files found.	No playable music data is stored in the portable device.	Connect a portable device in which playable music data is stored.
In handsfree mode		
Transfer failed.	Displayed when phonebook transfer failed.	Transfer the phonebook again.
Connection failed.	Displayed when phone connection failed.	Connect the phone again.
The part of telephone book data was not able to transfer	Displayed when call transfer was not successful.	Transfer the phonebook again.
Telephone call transferring is failed.	Displayed when call transfer was not successful.	Perform call transfer again.
Messages have not been retrieved.	Displayed when automatic message transfer failed.	Touch Message Transfer on the Messages screen to transfer the message.
	Displayed when the phone does not support the MAP profile.	Connect a phone which supports the MAP profile before using.
The message could not be retrieved.	Displayed when message retrieval failed.	Touch Message Transfer to perform transfer again.
Unable to dial	Displayed when call dialling failed.	Check that the phone is connected correctly.
Unable to transfer contacts. The Phone is in use	Displayed if the phone was in use when manual phonebook transfer was executed.	Finish using the phone before transferring the phonebook.

Message	Cause	Action
In picture mode		
No data	No displayable image data is recorded on the SD memory card.	Insert an SD memory card on which displayable image data is recorded.
Updating failed.	Displayed when updating the Opening screen failed.	Perform Opening screen update again.
Please wait...	Displayed when image data that is 5 MB or larger is being read.	Do not operate until the data reading is complete.

* If this happens, wait for a brief period. When the temperature inside the device returns to normal, the message disappears and playback starts. If the message does not disappear even after waiting a long time, contact your dealer.

Useful Information

Message	Cause	Action
In Voice Control System		
Please repeat.	Displayed when the voice command could not be recognised.	Speak the command again.
Voice recognition mode has been cancelled.	Displayed when the voice recognition mode is ended.	-
That command is not available at this time.	Displayed when it is not possible to change the audio mode.	Check that the disc has been inserted correctly. Check that the device has been connected correctly.
That command is not available at this time.	Displayed when it is not possible to change to the navigation mode.	Check that the SD card containing the map data has been inserted correctly. Check that a language other than Russian is selected for the language setting. If the problem is still not resolved, please contact the nearest dealer.
That command is not available at this time.	Displayed when that data does not exist. Displayed when the voice command cannot be used.	Use the command only when the corresponding data exists. Speak the name of the data again. Speak a permitted voice command again.
That command is not available at this time.	Displayed when the connected device is not a supported product.	Use when a supported product is connected.
That frequency is not available.	Displayed when that frequency is not available.	Speak the command again.
There is no corresponding data.	Displayed when the corresponding data does not exist.	Use the command only when the corresponding data exists.
That channel cannot be selected.	Displayed when the requested channel data does not exist.	Use the command only when the channel data exists.
The call cannot be placed. There is no phone number information.	Displayed when no phone number data is registered in the phonebook.	Register in the phonebook before using.
(Phonebook name) (Location) is not in the phonebook.	Displayed when the phone number data is not registered in the designated location.	Register in the phonebook before using.
The phonebook is empty.	Displayed when there is no data registered in the phonebook.	Register in the phonebook before using.
The call cannot be placed. There is no phone number information.	Displayed when that information does not exist.	Speak the information again.
You can't add more digits.	Displayed when the maximum number of telephone number digits has been exceeded.	Make a call to the entered phone number or delete digits before entering.

Message	Cause	Action
There are no phones set up to make calls.	Displayed when a Bluetooth-supporting phone is not registered.	Check that a Bluetooth-supporting phone is registered.
The phone is not connected. Please check the phone.	Displayed when a Bluetooth-supporting phone is not connected.	Check that a Bluetooth-supporting phone has been connected.
Please check the usb.	Displayed when USB is disconnected.	Check that USB is connected correctly.
Please check the ipod.	Displayed when the iPod battery is depleted. Displayed when the iPod is disconnected.	Check the iPod battery level. Check that the iPod is connected correctly.
Please check the phone.	Displayed when the phone is disconnected. Displayed when the phone battery is depleted. Displayed when the phone link is disconnected.	Check the phone battery level. Check that the phone is connected correctly.
Loading Voice Recognition...	Displayed when voice recognition cannot yet be started.	Wait for a few moments before operating.

* When a correct command is recognised, the system speaks back the same voice command.

Useful Information

When You Think There Is a Malfunction

A slight change in operation may be mistaken for a malfunction. Please check the items in the following table first.

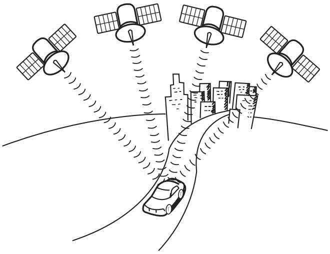
If the unit does not improve even after taking the appropriate action, contact your dealer for an inspection.

Condition	Possible cause	Action
The screen is dark for a brief period when the power is turned on at low temperatures.	This is a characteristic of TFTs.	This is not a malfunction. Wait for a brief period.
The display is distorted for a brief period after the power is turned on.	This is a characteristic of TFT backlighting.	This is not a malfunction. The display will stabilise after a brief period.
No sound comes out.	The volume is poorly adjusted.	Turn the VOL button to adjust the volume.
	The music is muted in the following cases. ● When the voice guidance function is operating. ● When talking in handsfree mode.	This is not a malfunction. The music can be heard again when the voice guidance finishes or the handsfree mode is turned off.
Sound comes out of only one side (left or right, front or rear).	The volume is poorly adjusted.	Check the balance and fader adjustments.
Sound quality does not change even after making adjustments.	The adjusted sound quality band is not included in the radio broadcast or disc.	Check by changing the radio station or disc.
Cannot insert a disc into the deck.	The power is not turned on.	Turn the vehicle ignition switch to “ACC” or “ON”.
	A disc is already inserted and you are trying to insert a second disc.	Eject the previously inserted disc before inserting the new disc.
Cannot play a disc.	There is water condensation inside the device.	Stop using the device for a short time and then try again.
	The disc is significantly scratched or warped.	Insert a different disc.
	The disc is very dirty. Clean the disc.	The disc is upside down. Insert the disc in the correct orientation.
	A non-supported disc type is inserted.	Insert a supported disc into the deck.
Audio is output, but not video (even when the vehicle is stopped).	The parking brake is not applied.	Apply the parking brake.
Neither audio nor video is output.	The vehicle ignition switch is not turned on.	Turn the vehicle ignition switch to “ACC” or “ON”.
There are dots that are always lit on the screen.	At least 99.99% of the pixels on TFT panels function correctly, but 0.01% of the pixels may not light or may stay lit.	This is not a defect, so please use the device in this condition.

Glossary

To enhance your enjoyment of this product, please familiarise yourself with the following terms.

- **GPS (Global Positioning System)**



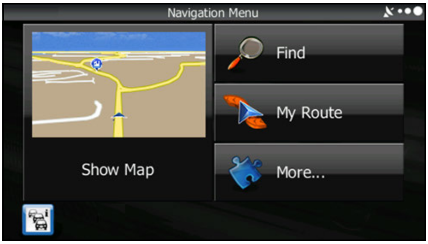
GPS is a system that detects the current location (latitude, longitude, altitude) by receiving radio waves from 4 or more GPS satellites in normal situations, or sometimes from 3 satellites.

These satellites are launched and managed by the US Department of Defense mainly for military use, but they are also open for private use. This unit performs navigation using GPS information, various sensors, and road map data.

- **Wide area map, detailed map**

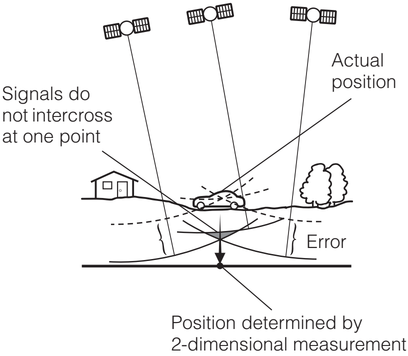
The wide area map is a map of a large area, and the detailed map is a map of a small area. The scales of the maps are 1/20,480,000, 1/10,240,000, 1/5,120,000, 1/ 2,560,000, 1/1,280,000, 1/640,000, 1/320,000, 1/160,000, 1/80,000, 1/40,000, 1/20,000, 1/10,000, and 1/5,000.

- **Positioning**



The quality of the GPS positioning is displayed in the top right of the menu screen. The greater the number of displayed symbols, the higher the precision of the GPS positioning.

- **2D positioning and 3D positioning**


Signals do not intercross at one point
Actual position
Error
Position determined by 2-dimensional measurement

GPS calculates positions using triangulation.

The distance to the satellite can be determined when the radio wave from that satellite is received, and the current location can be measured by receiving radio waves from 3 satellites.

However, because there is a margin of error in the GPS satellites and navigation unit, positioning is performed in only the 2 dimensions of latitude and longitude when radio waves from only 3 satellites can be received. The precision will be lower in this case. When radio waves from 4 or more GPS satellites are received, positioning is performed in the 3 dimensions of latitude, longitude, and altitude. 3D positioning is more precise than 2D positioning, and it reduces the margin of error in the vehicle location display.

Useful Information

About Trademarks

- The Dolby Digital format is supported, and a disc having the following logo can be played.

  This product is manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

- This product uses the NetFront FlexUI of ACCESS Co., Ltd.

  ACCESS, the ACCESS logo and NetFront are the trademarks and registered trademarks of ACCESS Co., Ltd. in Japan, the USA and other countries.

  Some parts of the software in this product contain modules developed by the Independent JPEG Group.

- NAVTEQ ON BOARD is a trademark of NAVTEQ in the USA and other countries.

THIRD PARTY RECIPIENT TERMS AND CONDITIONS

Short Form Terms

By activating, using and/or accessing the SUNA Traffic Channel RDS-TMC service, you accept certain terms and conditions. The following is a brief summary of the terms and conditions that apply to you. To view the full terms and conditions relevant to your use of the SUNA Traffic Channel service, please consult www.sunatraffic.com.au/termsandconditions/ .

1. Acceptance

By using or allowing anyone else to use the SUNA Traffic Channel service, you will be deemed to have accepted and agreed to be bound by the terms and conditions fully detailed at www.sunatraffic.com.au/termsandconditions/

2. Intellectual Property

SUNA Traffic Channel is for your personal use. You may not record, or retransmit the content, nor use the content in association with any other traffic information or route guidance service or device not approved by Intelematics. You obtain no right of ownership in any intellectual property rights (including copyright) in the data that is used to provide SUNA Traffic Channel.

3. Appropriate Use

SUNA Traffic Channel is intended as an aid to personal motoring, and does not provide comprehensive or accurate information on all occasions. On occasions, you may experience additional delay as a result of using SUNA Traffic Channel service. You acknowledge that it is not intended, or suitable, for use in applications where time of arrival or driving directions may impact the safety of the public or yourself.

4. Use of SUNA Traffic Channel while driving

You, and other authorised drivers of the vehicle in which SUNA Traffic Channel is installed and active, remain at all times responsible for observing all relevant laws and codes of safe driving. In particular, you agree to only actively operate SUNA Traffic Channel when the vehicle is at a complete stop and it is safe to do so.

5. Service Continuity and Reception

Intelematics Australia Pty Ltd ("Intelematics") will use reasonable endeavours to provide the SUNA Traffic Channel 24 hours a day, 365 days a year. The service may occasionally be unavailable for technical reasons or for planned maintenance. Intelematics will try to perform maintenance at times when congestion is light. Intelematics reserves the right to withdraw the service at any time.

Also, Intelematics cannot assure the uninterrupted reception of the SUNA Traffic Channel RDS-TMC signal at any particular location.

6. Limitation of Liability

Neither Intelematics nor its suppliers will be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise arising out of the use of or inability to use SUNA Traffic Channel even if Intelematics has been advised of the possibility of such damages. You also acknowledge that Intelematics does not guarantee nor make any warranties that relate to the availability, accuracy or completeness of SUNA Traffic Channel and, to the extent which it is lawful to do so, Intelematics excludes any warranties which might otherwise be implied by any State or Federal legislation in relation to SUNA Traffic Channel.

7. Please Note

Intelematics reserves the right to vary its Terms and Conditions in whole or in part from time to time without notice and amendments will be effective immediately upon posting of the amended Terms and Conditions on Intelematics' website (www.sunatraffic.com.au/termsandconditions/). Continued use of the SUNA Traffic Channel by you or anyone authorised by you will represent your agreement to be bound by the Terms and Conditions as amended.

Useful Information

Specifications

<GPS antenna>

Dimensions	36 (W) × 13.7 (H) × 33 (D) mm
Weight approx.	108 g (Excluding cables and connectors)
Power supply voltage	4.5 +/-0.5 (V)
Power consumption	10 to 30 (mA)
Usage temperature	-30 to 85 (°C)
Storage temperature	-40 to 100 (°C)

<Display section>

Liquid crystal panel	7″ Low reflection panel
Pixel count	391,680 pixels (480 (H) × 272 (V) × 3)
Active pixel rate Over	99.99%
Display format	Transmissive colour filter format
Drive system	TFT (thin film transistor) active matrix format
Usage temperature range	-20 °C to +65 °C
Storage temperature range	-40 °C to +85 °C

<Radio tuner section>

Reception frequency	AM 522 to 1710 kHz FM 87.5 to 108.0 MHz
Practical speed	AM 10 dBμV(S/N20 dB) FM 12 dBf (S/N30dB)
Frequency characteristic	30 to 15,000 Hz (FM)
Stereo separation	49 dB (1 kHz)

<CD section>

Frequency characteristic	20 to 20,000 Hz
S/N ratio	99 dB (1 kHz)
Higher harmonic distortion rate	0.006 % (0 dB, 1 kHz)
Dynamic range	99dB
Wow and flutter	Below measurement limit

<DVD section>

Frequency characteristic	20 to 20,000 Hz
S/N ratio	99 dB (1 kHz)
Higher harmonic distortion rate	0.006 % (0 dB, 1 kHz)
Dynamic range	101 dB
Wow and flutter	Below measurement limit

<USB memory section>

USB Interface	1.0/1.1/2.0 (support)
Frequency Response	20 Hz to 20,000 Hz ±3 dB
S/N Ratio (A-weighted)	99 dB
Maximum consumption current	Less than 1 A
Supported capacities	16 MB to 8 GB

<Common component>

Rated output	15 W × 4 (1 kHz, 1% 4 Ω) (EIAJ)
Maximum output	MOS-FET 48W
Suitable load impedance	4 Ω
Power source voltage	13.2 V DC (10.5 to 15.8 V) Grounded
Power consumption	0.5 W × 4 output time approx. 3.7 A Approx. 12 A max
Exterior dimensions	180 mm (W), 100 mm (H), 165 mm (D)
Weight Approx.	2.3 kg

ATTENTION

Parts and design are subject to change without prior notice for performance improvements.