



CAR NAVIGATION/DVD Receiver

OWNER'S MANUAL

MODEL : LAN-8660EK

Please read this instruction booklet carefully and completely before connecting, operating or adjusting this product.



P/NO : MFL30242207



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	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT SPLIT COVER(OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user about the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Always operate the vehicle in a safe manner. Do not become distracted by the vehicle while driving, and always be fully aware of all driving condition. Do not change settings, or any functions. Pull over in a safe and legal manner before attempting such operations.



To promote safety, certain functions are disabled unless the handbrake is on.

Do not use for many hours at extremely low or high temperature. (-10~60°C)



To reduce the risk of electric shock, do not remove the cover or back of this product. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.



To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain, or moisture.



Due to high temperature outside of the unit, please use the unit only installed in a car.



While driving, keep the sound volume at a proper level.




Do not drop it and avoid heavy impact at anytime.





The driver must not watch the monitor while driving. If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.



This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, lorry or bus, check the battery voltage. To avoid shorts in electrical system, be sure to disconnect the  battery cable before beginning installation.



Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.




This product has been manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.



About the Symbol Display

When you are watching a DVD and attempt to perform an operation, it may not be performed by the programming on the disc. When this happens, this unit indicates the button  on the screen.

Types of Playable Discs

DVD
(12 cm disc)

Video CD (VCD)
(12 cm disc)

Audio CD
(12 cm disc)



In addition, this unit plays DVD±R, DVD±RW and CD-R or CD-RW that contains audio titles, MP3 or WMA.

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/±RW) disc itself, some CD-R/RW (or DVD±R/±RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally programmed by software manufacturers. This unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, therefore some playback features may not be available or other functions may be added.





- A defective or soiled disc inserted into unit can cause sound to drop out during playback.
- Handle the disc by holding its inner and outer edges.
- Do not touch the surface of the unlabeled side of the disc.



Do not stick paper or tape etc. on the surface.



Do not expose the disc to direct sunlight or excessive heat.



This unit cannot be operated by 8cm disc (using 12cm disc only).



- Clean the disc before playback. Wipe the disc from the center outward with a cleaning cloth.
- Never use solvents such as benzine or alcohol to clean the disc.

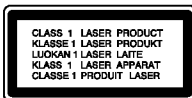


Regional code

This unit is designed and manufactured for playback of region “2” encoded DVD software. This unit can only play DVD discs labeled “2” or “ALL”.

Notes on Regional Codes

- Most DVD discs have a globe with one or more numbers on it clearly visible on the cover. This number must match your Car DVD Receiver’s regional code or the disc cannot play.
- If you try to play a DVD with a different region code from your player, the message “DVD region code error” appears on the screen.



CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.

CAUTION : This product uses a Laser System.

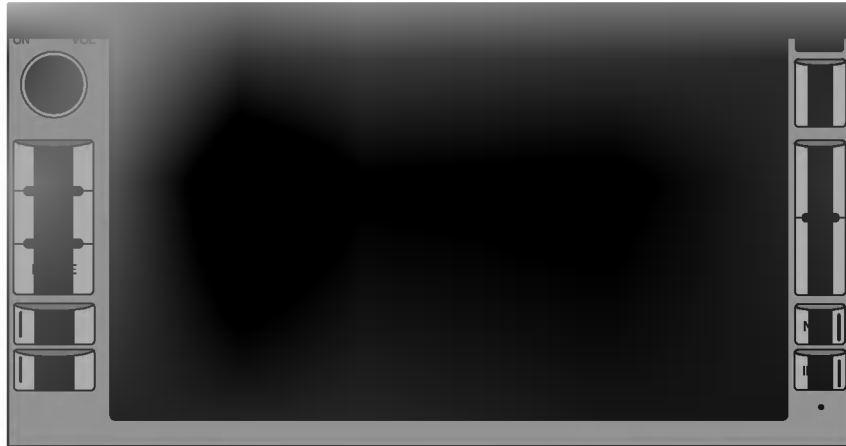
To ensure proper use of this product, please read this owner’s manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center.

Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.

Visible laser radiation when open. DO NOT STARE INTO BEAM.

Front panel



Power ON/OFF
- Turn on/off main unit.
VOL
- Adjust the volume.



BAND
- Select the band.



DISC
- Select the disc.



PHONE
- Select the phone.



▲
- Open the monitor.



TILT
- Adjust the monitor angle.



AV OFF
- Audio and video pause.



⊖
- Diminish the map level.



⊕
- Enlarge the map level.



NAVI
- Display the navigation map.



INFO
- Change the display setup.



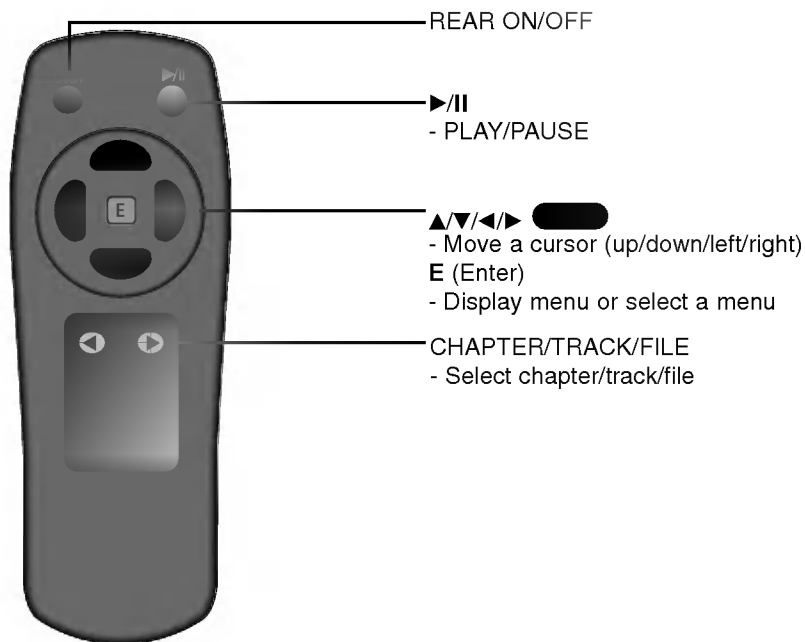
Reset
- If the unit fails to operate properly, press the reset button using a ball-pen or a similar tool.



Remote sensor



Remote control (Optional)



Using the REAR ON/OFF button

You can output the sound and video of disc in the built-in DVD drive to the rear display regardless of whether DVD drive is selected as the source or not rear ON mode. To turn the rear mode off, press the "REAR ON/OFF" button again.

Parts supplied (Optional)



Exterior GPS



Mini MIC



External Cable



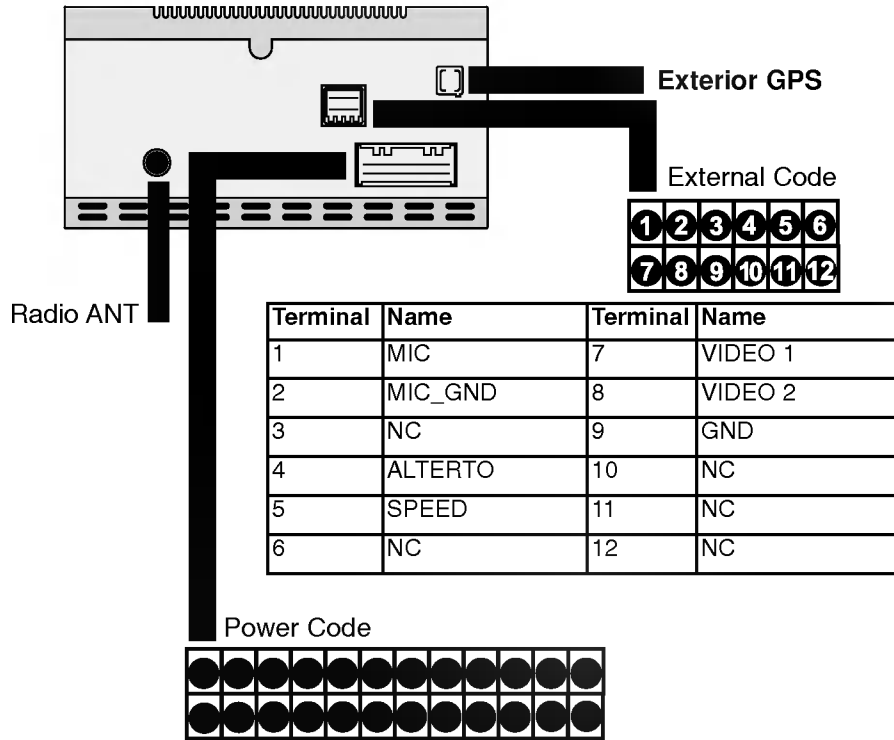
Power Cable (16 Pin)



Remote Control



Connecting the system



Terminal	Name	Terminal	Name
1	EXT AMP Front L-ch (+)	13	EXT AMP Front L-ch (-)
2	EXT AMP Front R-ch (+)	14	EXT AMP Front R-ch (-)
3	EXT AMP Rear R-ch (+)	15	EXT AMP Rear R-ch (-)
4	EXT AMP Rear L-ch (+)	16	EXT AMP Rear L-ch (-)
5	ILL (+)	17	ILL (-)
6	NC	18	GND
7	NC	19	NC
8	NC	20	GND
9	NC	21	NC
10	NC	22	NC
11	ACC	23	ANT B+
12	BACK UP (+)	24	GND



Turning the unit on

Press the "ON/VOL" button.

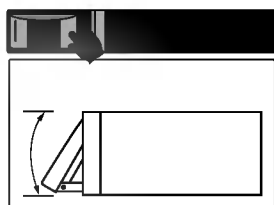
Turning the unit off

Press the "ON/VOL" button again.



Insert a disc

1. Press the "▲" button to open the monitor.
2. Draws the disc, and starts playback automatically.



Changing the monitor angle

Press the "TILT" button to adjust the monitor panel to an easily viewable angle.

- The monitor panel angle continues changing as long as you press the "TILT" button and hold.
- The adjusted the LCD panel angle will be memorized and the monitor panel will automatically return to this angle the next time the monitor panel is opened.



Adjusting the volume

Rotate the "ON/VOL" knob to adjust the sound level.

Note

When you turn the unit off, the current volume level is automatically memorized. Whenever you turn the unit back on, it will operate at the memorized volume level.



AV OFF (Audio/Video off)

1. Press the "AV OFF" button during playback.
2. To return to playback, press the "AV OFF" button again.



SETUP

You can set the setup on the screen to make it operate according to your particular needs.

1. Press the "INFO" button to select the setup.
2. The "SETUP" screen displays on the screen.



RDS

You can set the RDS setting.

● EON TA (Enhanced Other Network)

LOCAL

When the filed strength level of EON linked is less than threshold level, the radio does not switch that station, and customer can hardly listen to any disturbances.

DIST (Distance)

EON TA switch is tried to implemented by the information of current station.

● REG (Regional)

REG ON

Network-Tracking is activated.

The unit switches to another station, within the same network, broadcasting the same program when the receiving signals from the current station become weak.

REG OFF

Network-Tracking is activated.

The unit switches to another station, within the same network when the receiving signals from the current station become weak.(In the mode, the program may differ from the on currently received.)





Device Info. (Device information)

You can check the Software version, Hardware version, Map version and OS version.



Bell Sound Vol. (Bell sound volume)

You can set the ringer volume on incoming calls. Touch the + or - buttons to adjust settings.



LCD Brightness

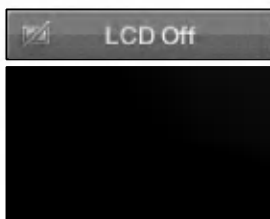
You can set the monitor brightness. Touch the + or - buttons to adjust settings.



Language

You can set the display language.


1. Touch the language button you want.
2. Touch the "OK" button.



LCD Off

You can set the monitor backlight is turn off. To cancel, touch the screen.

Note

Touch the  button in current screen to exit previous screen.



Using a Bluetooth wireless connection.

Your unit supports Bluetooth wireless connections.
You can set up a wireless link with Bluetooth phone.

Starting Bluetooth on your phone.


Your phone's Bluetooth feature may be set to off by default.
To use your car Bluetooth feature, Bluetooth must be turned on in your phone.

Note

Refer to your phone's user guide.

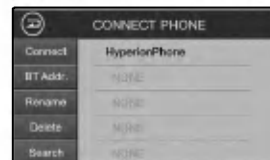
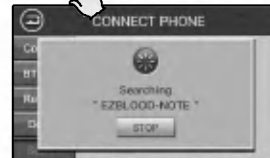
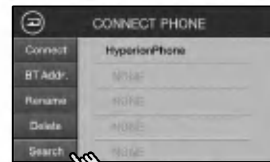
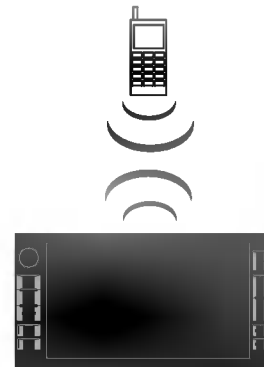
Pairing your unit and Bluetooth phone.

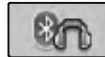
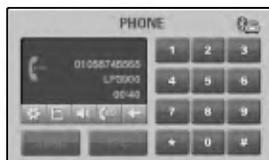
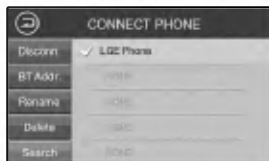
● Connection through the unit

1. Press the PHONE button to select the phone.
2. Touch the  button.
The "PHONE SETUP" screen displays on the screen.
3. Touch the "Connect" button.
The "CONNECT PHONE" screen displays in the screen.
4. Touch the "Search" button.
The "Searching" pop-up screen displays on the screen.
It will take about 20 seconds, to discontinue the process.
To cancel, touch "STOP" button.
5. Select a mobile phone you desire from the search findings, and press "Connect" button.

Notes



- During the settings for Bluetooth phone, make sure to select "visible to all devices" from Visibility. Otherwise, it cannot search Bluetooth phones.
- The successfully connected mobile phone will be registered in the "CONNECT PHONE" screen. Once registered, the phone can be connected without searching.





6. In an initial connection, the user will see the "INPUT PIN CODE" screen as shown in the figure.
To successfully connect, make sure to enter the same PIN code for mobile phone and the unit.
7. Touch the number 0~9 buttons, then confirm.
8. Touch the "Enter" button to pairing complete.
9. If successfully connected, the Bluetooth phone will be registered. The user can confirm it with the ✓ checking mark in the "CONNECT PHONE" screen.

✦ Notes

- When successfully connected,  icon will be displayed on the upper right side of the "PHONE" screen.
-  icon is displayed in case of hands-free connecting. Refer to "Headset functionality" for headset connecting.
- Icon for hands-free connecting
- Icon for headset connecting

● Auto connection


1. The Bluetooth phone which has a previous record showing that it has successfully connected will automatically start the connecting process when starting a car.
2. Auto connection functionality operates if there is a registered mobile phone in the "CONNECT PHONE" screen and the "Auto Connection" is selected on the "PHONE SETUP" screen.
3. To cancel, touch "STOP" button.

✦ Notes

- Auto connecting operates continuously from the recently connected mobile phone (from the top of the list on the "CONNECT PHONE" screen)
- Auto connecting process will take about 20 seconds for each mobile phone. (e.g. for 5 registered mobile phones, 100 seconds at maximum)

● Connection through bluetooth phone


Refer to your phone's user guide.

1. Press the PHONE button to select the phone.
2. Touch the  button.
The "PHONE SETUP" screen displays on the screen.
3. Touch the "Connect" button.
The "CONNECT PHONE" screen displays in the screen.
LAN-8660EK can be found (searched) only on the "CONNECT PHONE" screen.
4. Perform "searching a Bluetooth device" in the Bluetooth phone.
5. Initiate the Pairing and Connecting process on LAN-8660EK searched.
6. In an initial connection, the user will see the "INPUT PIN CODE" screen.

✦ Note

- To successfully connect, make sure to enter the same PIN code for Bluetooth phone and LAN-8660EK.
- The same instructions as "connecting through LAN-8660EK" apply correspondingly to the following.

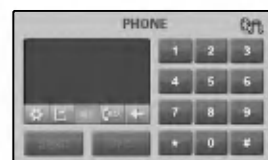
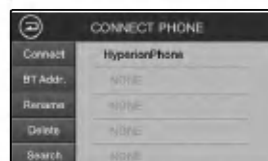
Headset functionality

Connecting method is same as "Hands-free connection", but  icon is displayed on the upper right side of "PHONE" screen right after connected.

- It operates the same as the wired headset for mobile phone. The headset functionality is for telephone conversation. It is not for listening to music.
- Unlike the hands-free functionality, Headset connection will allow only two functions "answering calls" and "making a call from the latest call".
Also the caller's number is not displayed when answering calls.

✦ Notes

- If connecting through LAN-8660EK, initiate the hands-free connection first. If your Bluetooth phone does not support the hands-free connection, then initiate the headset connection.
- If connecting through a Bluetooth phone, the hands-free connection or headset connection may operate depending on the type of the phone.





PHONE SETUP

1. Touch the PHONE SETUP button.
2. PHONE SETUP screen displays in the screen.

- **Connect**

You can check the connected Bluetooth phone.

- **BT Info. (Bluetooth Information)**

You can check the Bluetooth phone information.

- **Connection Mode**

Auto : Since the Bluetooth phone succeed in connecting at the first time would be registered at the "CONNECT PHONE", it would be automatically connected.

Manual : It would try to connect from the list registered at "CONNECT PHONE".

- **Visibility**

Shown : You can try to connect from Bluetooth phone to this SET.

Hidden : You can connect only with this SET, not by bluetooth handphone.

- ✦ **Note**

Touch the ⏪ button in current screen to exit previous screen.



CONNECT PHONE

- **Connect/Disconn. (Disconnect)**

Alternates between Connect and Disconn. lists.

- **BT Addr. (Bluetooth Address)**

Bluetooth address screen displays in the screen.

- **Rename**

You can rename the Bluetooth phone name.
- Please see page 19 for detail. (RENAME)

- **Delete**

You can delete the selected Bluetooth phone.
If you touch and hold, can delete all list.

- **Search**

- Please see page 15 for detail.
(Pairing your unit and Bluetooth phone.)



BT INFO. (Bluetooth information)

- **Rename**

- Please see page 19 for detail. (RENAME)

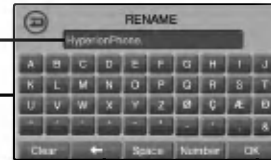
- **End**

Exit to previous screen.



RENAME

- Enter name is displayed
- Keypad button
- Erase all entered character
- Delete the previous character at the cursor position
 - Inserts a space at the cursor position
 - Alternates between number and symbol lists
- Confirm the entered name



PHONE BOOK

You can view all entry's numbers by Phone, Home, Office.
Touch the "PHONE BOOK" button.

● Send

You can call to dial the phone book entry.

● Info. (Information)

You can check the phone book lists by Name, Phone, Home, Office, Default.

● Delete

You can delete the phone book entry.

● Search

You can search the phone book entries.
- Please see page 15 for detail.

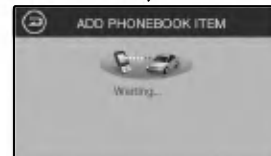
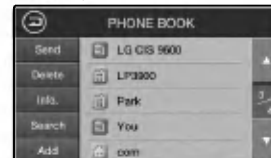
● Add

You can copy the phone book entries are supplied on the memory of phone to the unit.

1. The "waiting..." screen displays on the screen.
2. When you choose "Telephone No. Item Transmission" in the bluetooth phone, you can search LAN-8660EK.
(The way to control bluetooth handphone may vary on the manufacturer. Refer to the Owner's manual.)
3. Press the "Sending the phone number" in Bluetooth phone.
4. The telephone no. is transmitted to the LAN-8660EK from Bluetooth phone.

★ Note

If the hands-free or headset connection has been already made, disconnect the corresponding to add a new contracts entry.





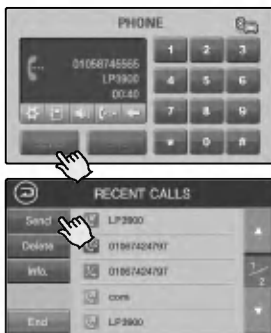
PHONE BOOK INFO. (Phone book information)

You can view all entry's numbers or select which phone number is dialed when you default dial the phone book entries. (If the entry has more than one phone number.)

1. Touch a phone number you want to set the default number for phone book lists.
2. Touch the Default button to change the entry's default phone number.
3. Touch END.

Note

When connecting to a phone, the hands-free connection should be already made.



Making a call from recent calls

Your unit keeps lists of calls you recently received and dialed. The lists are sorted from newest to oldest entries. (A maximum of 50 call numbers can be saved.)

1. Touch the "SEND" button.
2. Touch the ▲ or ▼ buttons to select a phone number you want.
3. Touch the "Send" button.

Note

The oldest entries are deleted as new entries are added.



Making a call from speed dial numbers

To make a call from a speed dial numbers, press "SEND" for long after pressing the speed dial number assigned to mobile phone, or press the last digit of the speed dial number for long.

- When making a call from a speed dial number 10, press 10 and press "SEND" button for long.
- When making a call from a speed dial number 10, press 1 and press 0 for long.

Note

Make sure that the speed dial functionality in Bluetooth phone is enabled before using.

Making a call.

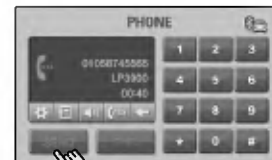
Your unit offers many ways to make calls.

To make a call by entering numbers on your number buttons.

1. Enter a phone number you want to call, by touching the number buttons.
2. Touch the "SEND" button to place a call to the entered phone number.
3. To end the call and hang up the phone when you are finished, touch "END" button.

Notes

- Touch "SEND" button for long to make a call from a latest call.
- The user's recent call history applies only to hands-free connection. (Making a call from a recent call with headset connection depends on the call history of mobile phone.)
- The headset connection allows only making a call from a recent call.





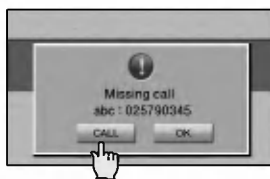
Answering calls

When you receive a call, your phone rings and display an incoming call message.

1. The "CALL FROM" screen displays on the screen.
2. Touch the "RECEIVE" button to answer the call. If you want to switch over by the phone, touch the "REJECT" button.

Note

- If the phone number is available, the phone number of the caller is display.
- If the phone number is in the phone book, phone book entry's name is display.
- If the incoming call is from a number stored in your Contacts, the entry's name is displayed. The caller's phone number may also be displayed, if available.
- If "REJECT" button displays unusable, then the phone connected to the device does not support the rejecting calls functionality.





Missed call notification

When an incoming call is not answered, the missed call message is displayed on the your screen.

1. The "Missing Call" screen displays on the screen.
2. Touch the "CALL" button to answer the call.
3. To end the call and hang up the phone, touch "OK" button.




Alternates between car speaker and phone during a call. ↔


When you turn the car speaker on, your unit display  button in the screen. The car speaker remains on until you press  button.



Dial using RSA

If you want to contact the call center, touch the  button.

Note

If you make a mistake while dialing, touch the  button to erase on digit at a time.



Listening to radio stations

1. Press the “BAND” button to select the radio.
2. Press the “BAND” repeatedly to select a band.
The indicator lights up in the following order.
FM1 → FM2 → FM3 → MW
3. **Seek tuning :**
Touch the **◀◀** or **▶▶** buttons.
The tuner will scan the frequencies until a broadcast with strong enough reception is found.
Manual tuning :
Touch the **◀◀** or **▶▶** buttons repeatedly until a preset number you want is selected.



AS (Auto search memory)

This function lets you automatically store the 6 strongest broadcast frequencies.

1. Select the band (FM1, FM2, FM3, MW) you want to store a station into.
2. Touch the “AS” button.
Local stations with the strongest signals are searched and stored automatically in the selected radio band.
3. To cancel, touch it again.



Storing and recalling stations.

You can easily store up to preset 6 stations for later recall at the touch of a button.

1. Select the band (FM1, FM2, FM3, MW) you want to store a station into.
2. Touch the **◀◀** or **▶▶** buttons to select the desired band.
3. Touch one of the number button (1-6).
The preset station information will be displayed.
The selected preset station has been stored in memory.
4. Repeat steps 2 and 3 to preset other stations.
The next time, if you touch the number button (1-6), the station is recalled from the memory.



★ Notes

- As FM1, FM2, FM3 have the same frequency range, up to 18 stations can be preset for FM.
- When a station is preset on the preset station button on which another station of the same band has already been preset, the previously preset station is automatically erased.





RDS display options

The RDS system is capable of transmitting a wide variety of information in addition to the initial call sign that appears when a station is first tuned. In normal RDS operation the display will indicate the station name, broadcast network or call letters.

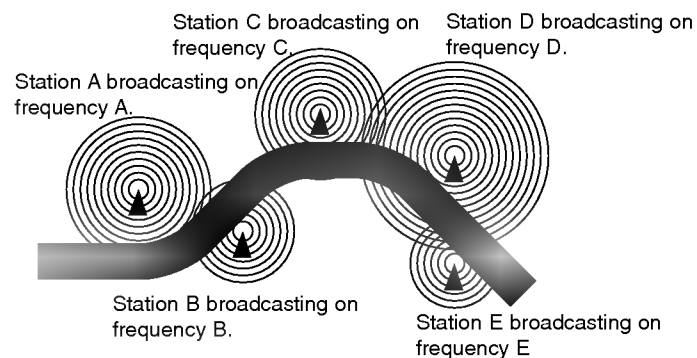
- **AF** (Alternative Frequencies for the actual program)
- **TA** (Traffic Announcement Identification)
- **PTY** (Program type recognition)
- **RT** (Radio text recognition)
- **PS** (Program Service name)
- **PI** (Program Identification) : contains additional information for regional program operation
- **AF** (Alternative Frequencies for the actual program)
- **TP** (Traffic Program Identification)
- **TA** (Traffic Announcement Identification)
- **EON** (Enhanced Other Networks) : Information on other programs to use their services like traffic announcement etc

AF (Alternative frequency)

When the reception quality drops, the tuner automatically changes to another station in the network, broadcasting a better reception quality, using the PI and AF codes.

This mean: wherever you drive, you can continue to listen to the same program without interruptions. (Refer to figure.)

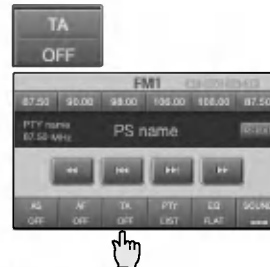
1. Touch the "AF" button.
The "AF" indicator displays in the screen.
2. To cancel, touch it again.



TA (Traffic announcement identification)

This is an On/Off switching signal to indicate when a traffic announcement is on air.

1. Touch the "TA" button.
The "TA" indicator displays in the screen.
2. To cancel, touch it again.



PTY (Program type recognition)

To select a certain program type out of the reception band, the following procedure can be used.

1. Touch the "PTY" button.
2. The "PTY LIST" displays in the screen.
3. Touch the "PTY LIST" button.
4. "PTY Searching" pop-up screen displays on the screen.
5. To cancel, touch "OFF" button.



★ Notes

- RDS is only available for FM reception.
- Touch the ▲ or ▼ buttons to select the PTY LIST you want to view.
▲/▼ : Previous/Next page of the list.
- Touch the ⊞ button in current screen to exit previous screen.





R TEXT (Radio text recognition)

The radio station's information is displayed on the screen.

1. Touch the "R TEXT" button.
Radio text displays in the screen.
2. To cancel, touch it again.

Note

Some RDS stations may not choose to include some of these additional features. If the data required for the selected mode is not being transmitted, the screen will show a "No Radio Text" message.



EQ (Equalizer)

Touch the "EQ" button during playback.

The item changes as follow.

FLAT → CLASSIC → JAZZ → ROCK → FLAT...

- FLAT : Cancels equalizer play.
- CLASSIC: Optimized for orchestral music.
- JAZZ : Sweet sound with soft feeling.
- ROCK : Optimized for Hard Rock and Heavy Metal music.



SOUND

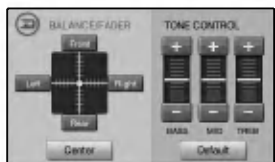
Touch the "SOUND" button during playback.

BALANCE/FADER

1. Touch the "LEFT" or "RIGHT" button.
Adjust the balance—speaker output balance between the left and right speakers.
2. Touch the "FRONT" or "REAR" button.
Adjust fader—speaker output balance between the front and rear speakers.

TONE CONTROL

Touch the + or - button to make adjustment as you like.
BASS/MID/TREB



Note

Touch the ⊖ button in current screen to exit previous screen.



Playing an audio CD and MP3/WMA disc

- Please see page 12 for detail.

Note

The unit can play MP3/WMA formatted recordings on CD-ROM, CD-R or CD-RW discs.
Before playing MP3/WMA recordings, read the notes on MP3/WMA Recordings on page 29.



AV OFF (Audio/Video off)

1. Press the AV OFF button during playback.
2. To return to playback, press the "AV OFF" button again.

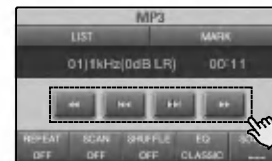


Skip the next track

Touch briefly the ►►I button to select the next track.

Skip the previous track

Touch briefly the I◄◄ button within 4 seconds of playing time.



Return the beginning of the current track

Touch briefly the I◄◄ button after 4 seconds of playing time.

Search

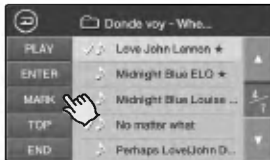
Touch and hold the ◄◄ or ►► buttons during playback and then release at the point you want.

Locating a folder/track using the list

This functions only for **MP3**.

1. Touch the "LIST" button during playback.
2. Touch the "TOP" button to select root folder.
3. Touch the folder button you want.
4. Touch the "ENTER" button.
5. Touch the file you want.
▲/▼ : Previous/Next page of the list.
6. Touch the "PLAY" button to playback.





Marking a track using the list

This functions only for .

1. Move to the file you want.
2. Touch the “MARK” button.
The selected file is marked .
3. Repeat steps 1 and 2 to mark other track.
To cancel, touch it again.
4. Touch the “END” button to return to play screen.



Marking during playback

This functions only for .

1. Touch the or buttons to select a track you want.
2. Touch the “MARK” button during playing the track.
The current track is marked .



REPEAT

Touch the “REPEAT” button during playback.

The item changes as follow.

OFF → ONE → FOLDER → MARK → OFF...



- ONE : Plays repeatedly all tracks on the disc.
- FOLDER : Plays repeatedly all tracks of the current folder.
- MARK : Plays repeatedly all marked files.
- OFF : Cancels repeat play.



SCAN

Touch the “SCAN” button during playback.

The item changes as follow.

OFF → ALL → FOLDER → OFF...



- ALL : Plays the first 10 seconds of all tracks on the disc.
- OFF : Cancels scan play.
- FOLDER : Plays the first 10 seconds of first track in all folders on the disc.



SHUFFLE

Touch the "SHUFFLE" button during playback.
The item changes as follow.

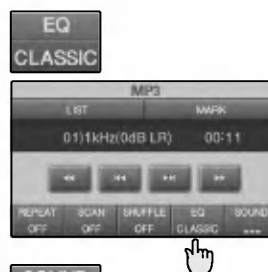
OFF → ALL → FOLDER → OFF...

- OFF : Cancels shuffle play.
- ALL : Plays randomly all tracks on the disc.
- FOLDER : Plays randomly all tracks of the current folder.



EQ (Equalizer)

Touch the "EQ" button during playback.
- Please see page 26 for detail.



SOUND

Touch the "SOUND" button during playback.
Please see page 26 for detail.



★ Notes

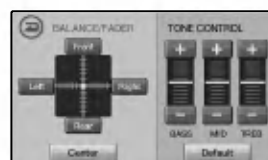
MP3/WMA Disc compatibility with this unit is limited as follows:

1. Sampling Frequency / 8 - 48kHz (MP3) 22.05 - 48 kHz (WMA)
2. Bit rate / within 8 - 320 kbps (include VBR) (MP3) 32 -320 kbps (WMA)
3. CD-R/CD-RW file system should be "ISO 9660"
4. If you record MP3/WMA files using software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it will not be possible to playback MP3/WMA files.

We recommend that you use "Easy-CD Creator" which creates an ISO9660 file system.

Customers should also note that permission is required in order to download MP3/WMA files and music from the Internet.

Our company has no right to grant such permission.
Permission should always be sought from the copyright owner.





Playing a DVD/VCD disc

Draws the disc, and "Disc reading" appears on the display window, and playback starts automatically. If playback does not start, press ► button.

✦ Notes

- It takes several seconds for the unit to detect a disc type.
- In some cases, the disc menu might appear instead.
- If "⊘" appears on the screen, the disc cannot accept the operation you have tried.
- DVDs may have a region code.
your unit will not play discs have a region code different from your unit. The region code for this unit is "2"

If menu screen is display

The menu screen may be displayed first after loading a DVD or Video 2.0 which offer a menu.



1. Touch the ◀, ▶, ▲ or ▼ buttons to select the title/chapter you want to view.
 - ▲/▼ : Move a cursor to up or down.
 - ◀/▶ : Move a cursor to left or right.
 - MOVE : Move a menu bar to UP or down.
 - ENTER: Enter to sub menu.

2. Touch the PLAY button to start playback.



1. Touch the number 0~9 buttons, then confirm.
 - BACK : Exit to previous screen.
 - ◀▶ : Change menu by number.
 - MOVE : Move a menu bar to up or down.
 - NUMBER : Change menu by ◀▶.
 - ◀/▶ : Move a cursor to left or right.

2. Touch the ENTER button to playback.



AV OFF (Audio/Video off)

Please see page 12 for detail.



Pause

1. Touch the **II** button during playback.
2. To return to playback, press the **▶** button.



Skip the next chapter/track

Touch briefly the **▶▶I** button to select the next chapter/track.

Skip the previous chapter/track

Touch briefly the **I◀◀** button within 4 seconds of playing time.

Return the beginning of the current chapter/track

Touch briefly the **I◀◀** button after 4 seconds of playing time.

Search

Touch and hold the **◀◀** or **▶▶** buttons during playback and then release at the point you want.

Operating the MENU

The menu may contain camera angle, spoken language, subtitle option and chapter for the title.

1. Touch the screen during playback.
The setup screen displays on the screen.
2. Touch the "MENU" button.
3. Touch the **▲**, **▼**, **◀** or **▶** buttons to select a title you want.
ENTER : Enter to sub menu.
4. Touch the "PLAY" button to playback.





TITLE



Operating the TITLE

When a disc has more than one title, you can move to another title as follows.

1. Touch the screen during playback.
The setup screen displays on the screen.
2. Touch the "TITLE" button.
3. Touch the ▲, ▼, ◀ or ▶ buttons to select a title you want.
4. Touch the PLAY or ENTER button to playback.

NUMBER



Operating the NUMBER

Use the number buttons to select the chapter or title you want to view.

1. Touch the screen during playback.
The setup screen displays on the screen.
2. Touch the "NUMBER" button.
The number screen displays on the screen.
3. Touch the number 0~9 buttons, then confirm.
4. Touch the "ENTER" button.

Note

If "⊘" appears on the screen, the disc cannot accept the operation you have tried.



Operating the

It is the function to use at the display requiring menu selection, while playing DVD.
(The various playing displays are required at the recorded DVD title during playing.)

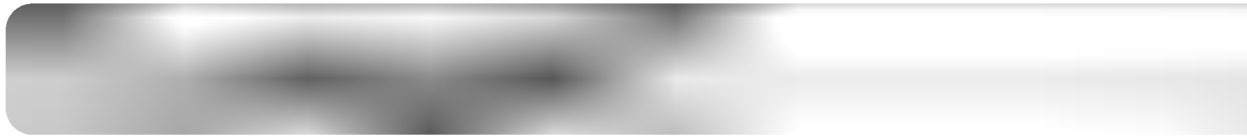
The menu screen displays on the screen.
Please see page 31 for detail.



Using the RSE ON/OFF button

You can output the sound and video of disc in the built-in DVD drive to the rear display regardless of whether DVD drive is selected as the source or not RSE ON mode.
To turn the rear mode off, touch the "RSE ON/OFF" button again.





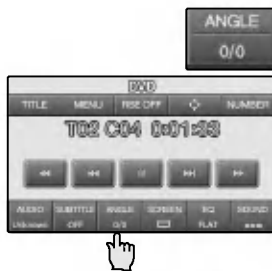
AUDIO

Touch the “AUDIO” button during playback.
If the disc contains multi- audio languages, you can change to a different audio language during playback.
The menu item changes.



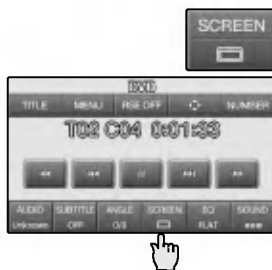
SUBTITLE

Touch the “SUBTITLE” button during playback.
If the disc contains multi- subtitle languages, you can change to a different subtitle language during playback.
The menu item changes.



ANGLE


Touch the “ANGLE” button during playback.
If the disc contains multi-angle views, you can change to a different camera angle during playback.
The menu item changes.



SCREEN

Touch the “SCREEN” button during playback.
You can change to a different monitor type and ambient light level during playback.
The menu screen displays on the screen.
- Please see page 35 for detail.

Note

If “” appears on the screen, the disc cannot accept the operation you have tried.



- **Aspect Ratio**

Select the monitor type your unit to play DVD recorded with aspect ratio of 16:9.

16:9 → 4:3 → ZOOM1 → ZOOM2...

16:9

Select when the aspect ratio your screen is fixed to 16:9 (Wide screen).

4:3

Select when the aspect ratio your screen is fixed to 4:3 (Conventional screen).

ZOOM1

A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.

ZOOM2

The picture is enlarged slightly at the center and the amount of enlargement increases horizontally toward the ends of the picture, enabling you to enjoy a 4:3 picture without sensing any disparity even on a wide screen.



- **Brightness**

Adjust the brightness.

Touch the + or - button to make adjustment as you like.

- **Contrast**

Adjust the contrast.

Touch the + or - button to make adjustment as you like.

- **Color**

Adjust the color of screen. (Thinner or thicker)

Touch the + or - button to make adjustment as you like.

- **Tint**

Adjust the tone of color.(Red is emphasized or green emphasized)

Touch the + or - button to make adjustment as you like.

EQ (Equalizer)

Touch the EQ button during playback.

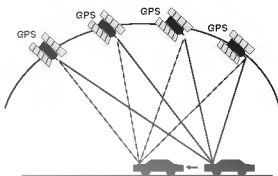
- Please see page 26 for detail.

SOUND

Touch the SOUND button during playback.

- Please see page 26 for detail.





What is GPS?

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of 24 satellites placed into orbit by the U.S.

Department of Defense. GPS was originally intended for military applications, but in the 1980s, the government made the system available for civilian use.

GPS works in any weather conditions, anywhere in the world, 24 hours a day.

There are no subscription fees or setup charges to use GPS.

Memory navi mode

While the map disc is inserted, you can store the data on the map disc into the memory of the navigation unit.

If the map disc is removed from the navigation unit after the data is stored, navigation is performed using the data in the memory (memory navi mode).

In the memory navi mode, you can play a music CD or DVD video on the navigation unit while navigation is taking place. The operation is automatically switched to the memory navi mode when the map disc is removed from the navigation unit.

Navigation in the memory navi mode

During the memory navi mode, navigation is performed only using the data read into the memory.

Therefore, some functions are restricted compared with navigation using the map disc (DVD navi mode).

These functions, which cannot be used in the memory navi mode.

- Please see page 47 for detail. (Address Search : Street)
- Please see page 49 for detail. (Junction Search)

Installing the new map data in the memory

If you want to use these functions, please insert the map disc again. In addition, you may need to insert the map disc and store new data in the memory during navigation operation.

1. Insert the DVD map disc to the disc loading slot.
2. Touch the "MENU" button.
3. Touch the "Setup" button.
4. Touch the "Download" button.
5. Touch the map you want to use.
6. Touch the "Download" button.
7. The map data from the map disc is download into the memory.
8. Touch the "OK" button when the installation complete screen is displayed.





Map description

There are various buttons and buttons on the map screen that are used to plan and view a route.

1. Press the "NAVI" button to select the navigation.
2. The map screen is displayed on the screen.



The current location of your vehicle.

The arrow indicates your heading, and the display moves automatically as you drive.



Compass indicator. (The red arrow indicates north.)

Each touch changes the map's display direction.

(North UP or Heading UP.)



GPS status indicator

- Please see page 39 for detail. (GPS Information)



Each touch changes the indicator.

Rode name indicator.



Destination indicator.



When voice command is possible.

When voice command is impossible.



Map scale indicator.

This figure gives the distance represented by the orange bar

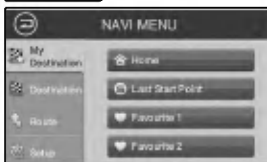


You can reduce the menu to a short icon.



The "MENU" button provides access to most of the important functions of your Mobile Navigation System. There is also a Settings menu, which you use to customize the appearance and behavior of your system. The various options presented in these menus are selected using the finger touch mode on your Navigation commander.

- Please see page 43 for detail.



Scroll location.

The cross hairs indicate a position on the map when you scroll away from your current location.

- Please see page 40 for detail. (Scrolling the map display)



You can save the current point in the "MEMORY POINTS".

- Please see page 44 for detail. (Memory points)



- **Guide mode**

The map of your surroundings is shown on the left, and an arrow indicating the direction of travel is shown on the right.

- Please see page 57 for detail. (Route Overview)



Each touch changes the guide mode.

- **Trace mode**

You can check information about the route between your current location and your destination.

◀ : Go ◀ from current position.

▶ : Go ▶ from current position.

◀◀ : Go to start point.

|| : Pause

■ : Check the trace mode at x1, x2 and x3 speed.



- **Simulate mode**

You can review the route you would go on before instructing navigation to calculate your route.



- **GPS Information**

You can check the reception signals from the GPS satellites, such as information about your satellite fix, and the latitude, longitude and altitude of your position.

The color of the icons indicates the signal reception status. The green represents a satellites whose signals are actually being used for positioning.

The red means that signals are being picked up but are not currently in use for positioning.





Scrolling the map display

Whenever you switch to the map display, your current position is shown just below the center of the display. However, you can scroll the map in any direction using the finger touch in the direction you wish to scroll.

To stop scrolling, release the finger touch and allow it to return to the center position. Scrolling will stop immediately.

Note

If you hold down the finger touch while scrolling the map, minor roads will be suppressed from the display. This increases the scrolling speed.

- Please see page 43 for detail.

Your point is manually registered to the "Memory points".
- Please see page 44 for detail. (Memory points)

Touch the "DEST." button.

You can set a destination for easy and quick routing from any current location.

Touch the "OK." button.

Route calculation starts automatically.

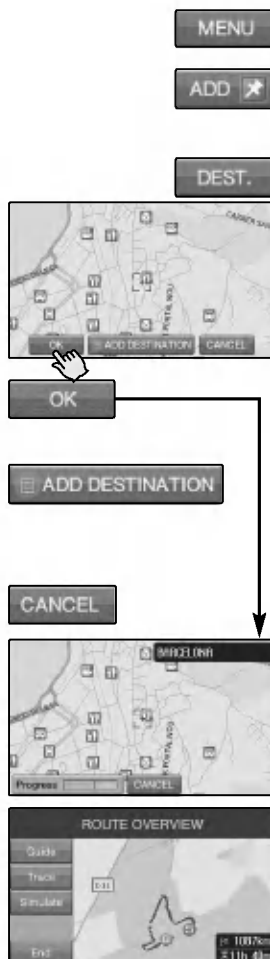
Whenever you add a point, your point is manually added to the "ADD DESTINATION".

- Please see page 43 for detail. (Add destination)

Exit previous screen.

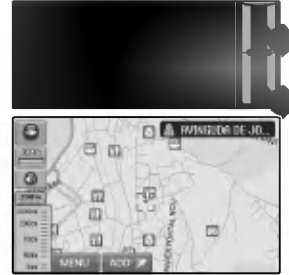
The "ROUTE OVERVIEW" screen displays on the screen.

- Please see page 57 for detail. (Route Overview)



Changing the map scale

The current map scale is indicated by the map scale indicator toward the bottom right of the map. You can easily increase or decrease the map scale (zoom in or zoom out) using the ⊖ and ⊕ buttons on the Navigation commander. Each click steps the scale up or down in the following order:
50 m ↔ 100 m ↔ 200 m ↔ 500 m ↔ 1 km ↔ 2 km ↔ 5 km ↔ 10 km ↔ 20 km ↔ 50 km ↔ 100 km ↔ 200 km ↔ 500 km ↔ 1000 km ↔ 2000 km



Note

Hold the button down to zoom in or out in smaller increments.

Marking your first journey.

1. Touch the "MENU" button.
2. Touch the "Destination" button.
3. Touch the "Address Search" button.
4. Start to type the name or street of the town where you want to go.
Touch the "OK" button.
5. Touch the street from the list.
The listing is highlighted in orange.
6. Touch the "Select" button.





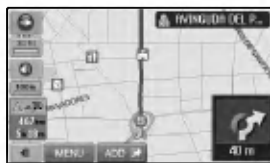
7. Map screen displays on the screen.
8. Touch the "OK" button.



9. Route calculation starts automatically.



10. The "ROUTE OVERVIEW" screen displays on the screen.
11. Touch the "Guide" button.



12. To guide you to your destination.
The navigation will give you spoken instructions and visual instructions on the screen.

Add destination

You can select way points (locations you want to visit on the way to your destination) and you can calculate the route to pass through these locations.

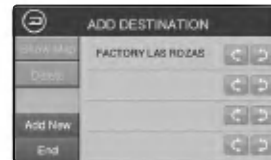
Notes

- You can add up to four way points.
- This function is useful when you have more than one destination along your route.

If you wish to confirm the selected point on the map before setting a route, touch the “Show Map” button. The map is displayed with the selected point at the center.

Permanently deletes the listing from the destination list.

Whenever you set a destination, your point is manually added to the “ADD DESTINATION”.



Show Map

Delete

Add New

My destination

You can add these items from memory point. Touch the “ My destination” button. Menu displays on the screen.

Touch the “My destination” button. Menu displays on the screen.

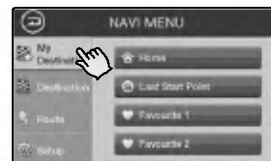
- Please see page 45 for detail (Modify memory point).

You are given a chance to register your home location with the system. Doing so will make it very easy to route home from any location.

Sets up starting point after arrival at the destination as a new destination (this menu is used in reciprocation travel through a path).

This point is automatically registered in the Last Start Point after searching for destination path.

You can select a favorite from your list of stored memory. A favorite is a destination previously stored by you for quick and easy retrieval.



Home

Last Start Point

Favourite 1

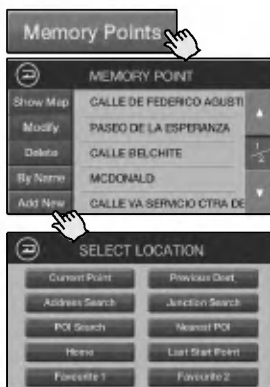
Favourite 2





Destination

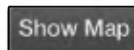
Touch the “Destination” button.
Menu displays on the screen.



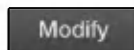
Memory Points

You can register a single stored location for easy and quick routing from any current location. One use of this feature might be to store the location of your office, for example. Or you might enter a favorite restaurant that you often visit.

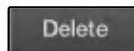
1. Touch the the “Memory Points” button.
The item displays only after a stored locations is registered.
2. Touch the “Add New” button.
You can register a location by choosing of item.
- Please see next page for detail.



If you wish to confirm the selected point on the map before setting a route, touch the “Show Map” button. The map is displayed with the selected point at the center.



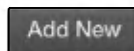
However, you are free to make changes to any listing in the point list at a later time.
- Please see page 45 for detail (Modify memory point).



Permanently deletes the listing from the destination list.



Alternates between “By Name” and “By Entry”.



Whenever you set a point, your point is manually added to the “MEMORY POINTS”.

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlighted from the screen, touch the “SUB LIST” button.
- Touch the ⊖ button in current screen to exit previous screen.



Modify memory point

You can select a point from your list of stored "MEMORY POINT". You can also save or edit points from this item.

1. Touch an item from the list.
The listing is highlighted in orange.
2. Touch the "Modify" button.
The "MODIFY MEMORY POINT" screen displays on the screen.

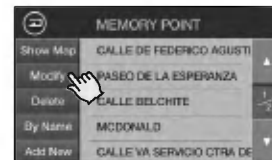
You can change the name. Enter the new name.
- Please see page 19 for detail. (RENAME)

You can select alarm type.
Touch a button you want from the items.
Voice, Alarm, Warn, None

You can select a point in the "My Destination" list.
Touch a button you want from the items.
- Please see page 43 for detail.
(The screen describes how to save an item to your "My Destination" list.)

You can see and modify the position of selected point.

You can save a point to the "My Destination".



Modify



Rename

Alarm



Save as...

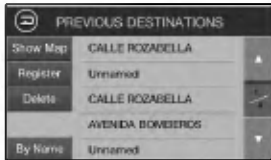


Location

OK



Previous Dest.



Previous Dest. (Previous destination)

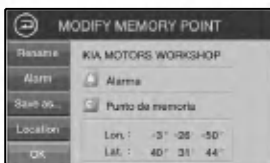
The “Previous Dest” is a convenient list of places that you have routed to in the past. Up to previous destinations are stored in the list, and you can register or delete particular listings at any time. To set a route back to one of these listings, all you have to do is to select it from the list.

1. Touch the the “Previous Dest.” button.
The screen displays a list of your previous destinations.
2. Touch a destination from the list.
The listing is highlighted in orange.

Show Map

If you wish to confirm the selected destination on the map before setting a route, touch the “Show Map” button. The map is displayed with the selected destination at the center.

Register



However, you are free to make changes to any listing in the destination list at a later time.

Touch the the “Register” button to open “MODIFY MEMORY POINT” screen.

- Please see page 45 for detail (Modify memory point).

Delete

Permanently deletes the listing from the destination list.

By Name

By Entry

Alternates between “By Name” and “By Entry”.

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- Touch the ⊞ button in current screen to exit previous screen.



Address Search : Street

This function, which cannot be used in the memory navi mode : Street .

If you know the address of your destination, you can use it to set a route.

1. Touch the "Address Search" button.
The text entry palette displays on the screen.
2. Touch the letter you want to input the name. (Street)
You may enter only the first few letters, highlight "OK" button.
3. Touch the item from the list (STREET LIST).
The listing is highlighted in orange.
4. Touch the "Select" button.
5. The map screen is displayed on the screen.
6. Touch the "OK" button.
Route calculation starts automatically.
7. The "ROUTE OVERVIEW" screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlighted from the screen, touch the "Sublist" button.
- Touch the ⊖ button in current screen to exit previous screen.





Address Search : City → Street

1. Touch the “Address Search” button.
The text entry palette displays on the screen.
2. Touch the letter you want to input the name. (City)
You may enter only the first few letters, highlight “OK” button.
3. Touch the item from the list (CITY LIST).
The listing is highlighted in orange.
4. Touch the “Select” button.
5. Touch the letter you want to input the name. (Street)
You may enter only the first few letters, highlight “OK” button.
6. Touch the item from the list (STREET LIST).
The listing is highlighted in orange.
7. Touch the “Select” button.
8. Map screen displays on the screen.
9. Touch the “OK” button.
Route calculation starts automatically.
10. The “ROUTE OVERVIEW” screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the “Sublist” button.
- Touch the ⊖ button in current screen to exit previous screen.



Junction Search : Street1 → Street2

This function, which cannot be used in the memory navigation mode : Street1 → Street2.

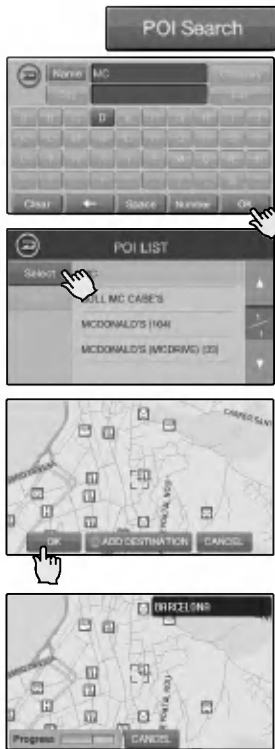
If you failed to give a city, town, or village in "Address Search" above, or if there are more than one street matching the name you have input, then you will be presented with a list of cities, towns, and villages that have a matching road or street.

1. Touch the "Junction Search" button.
The text entry palette displays on the screen.
2. Touch the letter you want to input the name. (Street1)
You may enter only the first few letters, highlight "OK" button.
3. Touch the item from the list (STREET LIST).
The listing is highlighted in orange.
4. Touch the "Select" button.
5. Touch the letter you want to input the name. (Street2)
You may enter only the first few letters, highlight "OK" button.
6. Touch the item from the list (STREET LIST).
The listing is highlighted in orange.
7. Touch the "Select" button.
8. Map screen displays on the screen.
9. Touch the "OK" button.
Route calculation starts automatically.
10. The "ROUTE OVERVIEW" screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the "Sublist" button.
- Touch the ⊖ button in current screen to exit previous screen.





POI (Point of interest) Search : Name

Information about various facilities (Point of Interest POI), such as petrol stations, amusement parks or restaurants is available. By selecting the category (or entering the POI Name or City), you can search for a POI.

1. Touch the "POI Search" button.
The text entry palette displays on the screen.
2. Touch the "Name" button.
3. Touch the letter you want to input the name. (Name).
You may enter only the first few letters, highlight "OK" button.
4. Touch the item from the list (POI LIST).
The listing is highlighted in orange.
5. Touch the "Select" button.
6. Map screen displays on the screen.
7. Touch the "OK" button.
Route calculation starts automatically.
8. The "ROUTE OVERVIEW" screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

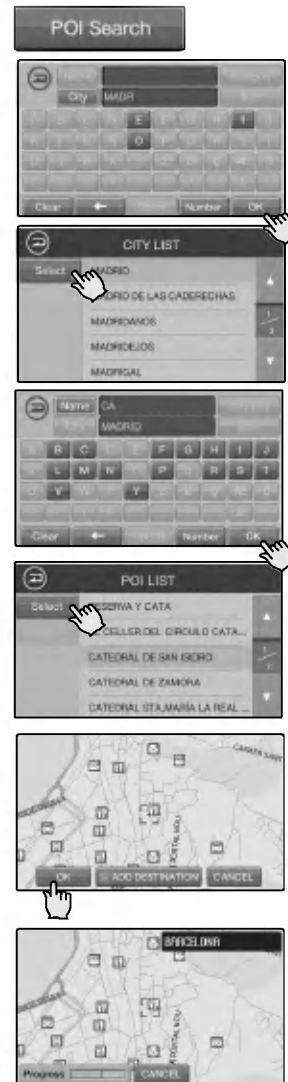
- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the "Sublist" button.
- Touch the ⊖ button in current screen to exit previous screen.

POI (Point of interest) Search : City → Name

1. Touch the "POI Search" button.
The text entry palette displays on the screen.
2. Touch the "City" button.
3. Touch the letter you want to input the name. (City)
You may enter only the first few letters, highlight "OK" button.
4. Touch the item from the list (CITY LIST).
The listing is highlighted in orange.
5. Touch the "Select" button.
6. Touch the letter you want to input the name. (Name)
You may enter only the first few letters, highlight "OK" button.
7. Touch the item from the list (POI LIST).
The listing is highlighted in orange.
8. Touch the "Select" button.
9. Map screen displays on the screen.
10. Touch the "OK" button.
Route calculation starts automatically.
11. The "ROUTE OVERVIEW" screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

📌 Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the "Sublist" button.
- Touch the ⊖ button in current screen to exit previous screen.





POI (Point of interest) Search : Category → Name

1. Touch the “POI Search” button.
The text entry palette displays on the screen.
2. Touch the the “Category” button.
3. Touch the item from the list (CATEGORY LIST).
The listing is highlighted in orange.
4. Touch the “Sublist” button.
5. Touch the item from the list.
The listing is highlighted in orange.
6. Touch the “Select” button.
7. The text entry palette displays on the screen.
8. Touch the letter you want to input the name. (Name).
You may enter only the first few letters, highlight “OK” button.
9. Touch the item from the list (POI LIST).
The listing is highlighted in orange.
10. Touch the “Select” button.
11. Map screen displays on the screen.
12. Touch the “OK” button.
Route calculation starts automatically.
13. The “ROUTE OVERVIEW” screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the “Sublist” button.
- Touch the ⊖ button in current screen to exit previous screen.



POI (Point of interest) Search :

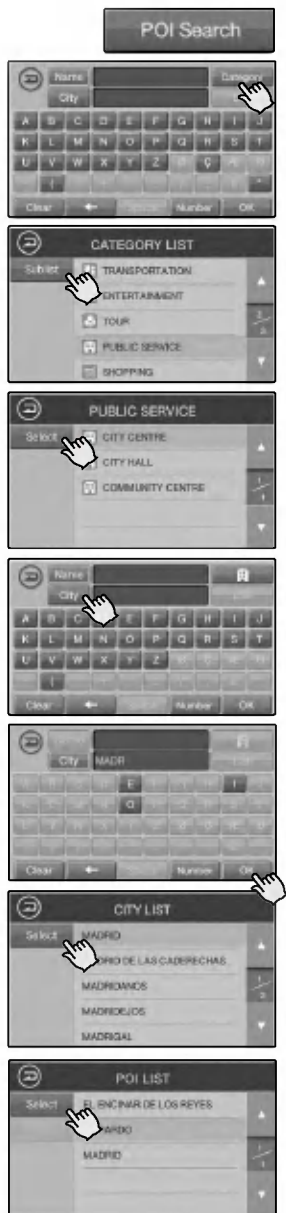
City → Category → Name

1. Touch the "POI Search" button.
The text entry palette displays on the screen.
2. Touch the "City" button.
3. Touch the letter you want to input the name. (City).
You may enter only the first few letters, highlight "OK" button.
4. Touch the item from the list (CITY LIST).
The listing is highlighted in orange.
5. Touch the "Select" button.
6. The text entry palette displays on the screen.
7. Touch the the "Category" button.
8. Touch the item from the list (ENTERTAINMENT).
The listing is highlighted in orange.
9. Touch the "Select" button.
10. The text entry palette displays on the screen.
11. Touch the letter you want to input the name. (Name).
You may enter only the first few letters, highlight "OK" button.
12. Touch the item from the list (POI LIST).
The listing is highlighted in orange.
13. Touch the "Select" button.
14. Map screen displays on the screen.
15. Touch the "OK" button.
Route calculation starts automatically.
16. The "ROUTE OVERVIEW" screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the "Sublist" button.
- Touch the ⊖ button in current screen to exit previous screen.





POI (Point of interest) Search : Category → City → Name

1. Touch the “POI Search” button.
The text entry palette displays on the screen.
2. Touch the “Category” button.
3. Touch the item from the list (CATEGORY LIST).
The listing is highlighted in orange.
4. Touch the “Sublist” button.
5. Touch the item from the list (PUBLIC SERVICE).
The listing is highlighted in orange.
6. Touch the “Select” button.
7. The text entry palette displays on the screen.
8. Touch the “City” button.
9. Touch the letter you want to input the name. (City).
You may enter only the first few letters, highlight “OK” button.
10. Touch the item from the list (CITY LIST).
The listing is highlighted in orange.
11. Touch the “Select” button.
12. Touch the item from the list (POI LIST).
The listing is highlighted in orange.
13. Touch the “Select” button.
14. Map screen displays on the screen.
15. Touch the “OK” button.
Route calculation starts automatically.
16. The “ROUTE OVERVIEW” screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

- Touch the ▲ or ▼ buttons to select the list you want to view.
▲▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the “Sublist” button.
- Touch the ⊖ button in current screen to exit previous screen.



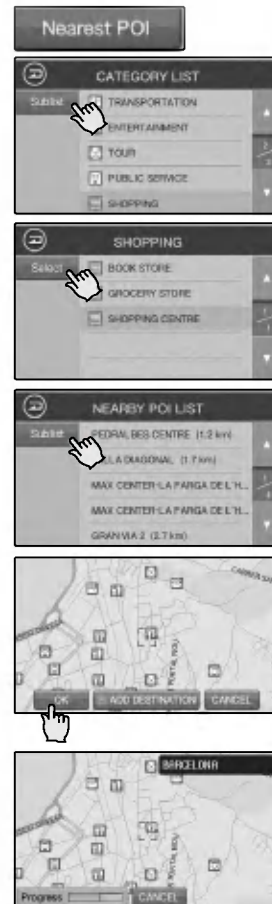
Nearest POI (Point of interest)

The map information on the memory includes the location of many points of interest. These range from railway stations to amusement parks and restaurants. You can use this function to quickly locate and route to any one of these points of interest. You can, for example, look for a particular type of cuisine within a certain distance of your present location and set a route there. Or you can choose museum from a list and route there.

1. Touch the “Nearest POI” button.
The POI categories displays on the screen.
2. Touch the item from the list (CATEGORY LIST).
The listing is highlighted in orange.
3. Touch the “Sublist” button.
4. Touch the item from the list (NEARBY POI LIST).
The listing is highlighted in orange.
5. Touch the “Select” button.
6. Map screen displays on the screen.
7. Touch the “OK” button.
Route calculation starts automatically.
8. The “ROUTE OVERVIEW” screen displays on the screen.
- Please see page 57 for detail. (Route Overview)

Notes

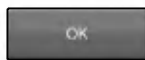
- Touch the ▲ or ▼ buttons to select the list you want to view.
▲/▼ : Previous/Next page of the list.
- If the sub list is highlight from the screen, touch the “Sublist” button.
- Touch the ⊖ button in current screen to exit previous screen.





ROUTE

Touch the "ROUTE" button.
Menu displays on the screen.



OK

The route from the current position to your destination is recalculated.

1. Route calculation starts automatically.
2. The "ROUTE OVERVIEW" screen displays on the screen.



Detour

You can set the length of the area, and avoid just that area, or you can even search a new route from the current location to your destination.

1. Touch the distance from the list.
2. Route calculation starts automatically.
3. The "ROUTE OVERVIEW" screen displays on the screen.



Notes

On the map screen during route guidance, try the operation.



Cancel Route

If you no longer need to travel to your destination or if you want to change your destination.

Route Overview

You can check information about the route between your current location and destination.

Touch the "Route Overview" button.

The "ROUTE OVERVIEW" screen displays on the screen.



- **Guide**
Drive in accordance with the screen and voice information.
This option displays also given through on-screen instructions whenever the system is in guide mode. Here you will learn how to interpret the various information presented to you on the screen, and how to customize the display of guidance information.
- Please see page 39 for detail.
- **Trace**
This is the mode that is displayed when guidance traces. In this mode, the position of your vehicle is superimposed on the map. It provides an easily understood view of progress toward your destination. The route is marked by a bold bright blue line.
- Please see page 39 for detail.
- **Simulate**
This is the mode that is displayed when guidance simulates. In this mode, the position of your vehicle is superimposed on the map. It provides an easily understood view of progress toward your destination. The route is marked by a bold bright blue line.
- Please see page 39 for detail.
- **End**
Cancel routing altogether.



Route Options

You can set the route option on the screen to make it operate according to your particular needs. (This option is included because some drivers prefer not to make it.)

Touch the "Route Options" button. The "ROUTE OPTIONS" screen displays on the screen.

- **Route Condition**

Fast : The unit calculates the route by picking the shortest distance and highest speed limits.

Short : The unit calculates the route by picking the shortest distance.

- **Toll Road**

If you select this option, the route will be calculated by including toll roads that are needed. If you select the "Avoided" option, the route will be calculated without any toll roads.

- **Ferry**

If you select this option, the route will be calculated by including ferry crossings that are needed. If you select the "Avoided" option, the route will be calculated without any ferry crossings.



New Start Point

The New Start Point is the function to change the start point site simulating where to drive using the navigation before driving actually. When changing the start point site, the New Start Point button is changed into the Current Position button.

New Start Point > Current Position

Touch the Current Position button when you want to return to the current start point where it receives the GPS signal.



Touch the Simulation button when you want to return to the current start point where it receives the GPS signal.



SETUP

Touch the "SETUP" button.
Menu displays on the screen.

Map

- **Orientation**
 - North up : Orients the map so that north is always at the top.
 - Head up : Orients the map so that your forward direction is always at the top.
- **Color**
 - Day : Always use to day-driving background colour.
 - Night : Always use night-driving background colour.
 - Auto : Automatic switching to night-driving background when headlights are switched on.
- **Distance Unit**
 - Km : Always display and announce in kilometers.
 - Mile : Always display and announce in miles.
- **Memory Point**
 - Show : You can show specific categories of points on the navigation and map view.
 - Hide : You can hide all of them from the main navigation view.
- **View**
 - 2D : The 2D view is the straight-forward two-dimensional view. This is the default map view. In this view, the map is dynamically updated, and allows for manual panning and zooming.
 - 3D : The 3D view is a simplified three-dimensional view showing the map in a basic 3D relief. It shows the basic outline and details of the surrounding roads and general area.





Guidance

This allows warnings and alerts which, when selected ON, will provide voice prompts.

- **Confluence**
- **Memory Points**
- **Service Area**



Volume

This sound volume for the navigation can be set. Touch + or - buttons to change the guidance volume. Mute : Items related to muting of sound volume can be set.

Note

Volume of the audiosource is adjusted by the VOL dial of the unit.



GPS Information

You can check the reception signals from the GPS satellite such as information about your satellite fix, and the latitude, longitude and altitude of your position.

The color of the icons indicates the signal reception status. The green represents satellite whose signals are actually being used for positioning.

The red means that signals are being picked up but are not currently in use for positioning.



Initialize

Delete Memory : You can delete all the listing from the memory.

Default Settings : You can set all the function to their factory setting.





Cannot identify the current location. (GPS not receiving)

GPS cannot be used indoors and must be connected to the power with ACC to a vehicle in a location where the sky can be seen well.

When initially connecting the GPS, it usually takes about 10 minutes to be normally operating, but the connection speed can differ depending on the weather condition, and surrounding obstacles.

If the GPS connection is unstable for a long period of time, try the following.

- Check if the power is connected to the product.
- Check if the back of the GPS product is in a location where the sky can be seen well.
- If there are high buildings or if you are under a tree, move to a location where there aren't any obstacles.
- Check the GPS receiving condition from the GPS menu.
- Please make sure it is changed to the start point for simulation at MENU > Route > New Start Point.

Cannot hear the voice guide.

You can hear the voice guide when you select the "SETUP>Volume".

But during actual driving, the voice guide is provided.

If the volume is too low, adjust the volume on the left side.

If the volume is mute, press the AV OFF button on the right side.

There is a difference between the driving road and the road on the map in the product.

Even though GPS is usually very accurate, it has an error range.

When GPS receiver is installed, there can be an error of about 5 to 15m. But for newly constructed roads, the problem could be from the data update to the map.

Cannot see the map.

This is when you cannot see the map even when you have executed the navigation menu.


This happens when the data within the memory is damaged. Delete all the data within the memory and newly install the data.

If the issue persists after the installation, contact the A/S center.

Map data and dangerous area information are not newly updated.

You must periodically update the map data.

Refer to the homepage for details on how to update the data.

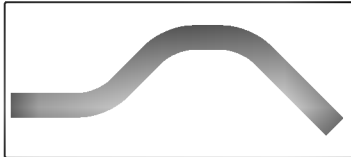


The path guide can be different from the actual path. (Path guide error)

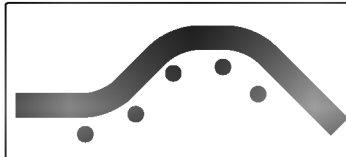
- When the road is closely parallel.
- When the splitting road angle is very small.
- When there is an adjacent road when turning.
- When driving on a road that is narrowing fast.
- When driving through the mountain or where the road is too curvy.
- When the starting, passing and arriving locations are too close within 10km.
- When you have set the starting, passing or arriving location more than 1km away from the road.
- When driving through the tunnel.
- When driving through high buildings.

Map matching

As mentioned, the GPS used by this Mobile Navigation System are susceptible to certain errors. Their calculations may on occasion place you in a location on the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and is able to correct your position by adjusting it to a nearby road. This is called map matching.



With map matching.



With no map matching.



Symptom	Cause	Correction
Power doesn't turn on. The unit doesn't operate.	<ul style="list-style-type: none"> Leads and connectors are not properly connected. The fuse is blown. Noise and other factors are causing the built-in microprocessor to operate incorrectly. 	<ul style="list-style-type: none"> Confirm once more that all connections are correct. Rectify the problem that caused the fuse to blow, and then replace it. Be very sure to install the correct fuse with the same rate. Turn the unit off and then on.
Playback is not possible.	<ul style="list-style-type: none"> The disc is dirty. The loaded disc is of a type this unit cannot play. 	<ul style="list-style-type: none"> Clean disc. Check what type the disc.
No sound is heard. The volume level will not rise.	<ul style="list-style-type: none"> Cables are not connected correctly. 	<ul style="list-style-type: none"> Connect the cables correctly.
There's no sound.	<ul style="list-style-type: none"> The volume level is low. 	<ul style="list-style-type: none"> Adjust the volume.
There's audio skipping.	<ul style="list-style-type: none"> This unit is not firmly secured. 	<ul style="list-style-type: none"> Secure this unit firmly.
The unit does not operate correctly even when the appropriate remote control buttons are pressed.	<ul style="list-style-type: none"> Battery power is low. Some operations are prohibited with certain discs. 	<ul style="list-style-type: none"> Load new battery. Check using another disc.

Language Codes

Use this list to input your desired language for the following initial settings:
Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Sinhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6665	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

Area Codes

Choose a area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hong Kong	HK	New Zealand	NZ	Sweden	SE
Chile	CL	Hungary	HU	Nigeria	NG	Switzerland	CH
China	CN	India	IN	Norway	NO	Taiwan	TW
Colombia	CO	Indonesia	ID	Oman	OM	Thailand	TH
Congo	CG	Israel	IL	Pakistan	PK	Turkey	TR
Costa Rica	CR	Italy	IT	Panama	PA	Uganda	UG
Croatia	HR	Jamaica	JM	Paraguay	PY	Ukraine	UA
Czech Republic	CZ	Japan	JP	Philippines	PH	United States	US
Denmark	DK	Kenya	KE	Poland	PL	Uruguay	UY
Ecuador	EC	Kuwait	KW	Portugal	PT	Uzbekistan	UZ
Egypt	EG	Libya	LY	Romania	RO	Vietnam	VN
El Salvador	SV	Luxembourg	LU	Russian Federation	RU	Zimbabwe	ZW



GENERAL

Output Power 50W x 4CH (Max.)
Power Source DC 12V
Speaker impedance 4 Ω
Ground System Negative
Dimensions (W x H x D) 182 x 51 x 173 mm (Without Front Panel)
Net Weight 2.9 kg

DISPLAY

LCD 6.5 inch TFT LCD
Resolution 400 X 234
Color 65,000 color
Back Light CCFL type (L-type)

CD/DVD/VCD SELECTION

Frequency Response 20 Hz-20 kHz
S/N Ratio 60 dB
Distortion 1 %
Channel Separation (1kHz) 45 dB

RADIO SELECTION

FM


Frequency Range 87.5-108 MHz
S/N Ratio 50 dB
Distortion 1.0 %
Usable Sensitivity 15 dB μ V

AM (MW)

Frequency Range 520-1720 or 522-1620 kHz
S/N Ratio 40 dB
Distortion 1.0 %
Usable Sensitivity 35 dB μ V

NAVIGATION SELECTION

CPU Renesas SH-7760 200 MHz (360MIPS)
OS QNX v 6.2.1B
SDRAM 128 MB
Memory (Map) 1 GB CFC
Memory (OS) 16 MB NOR Flash
Graphic Fujitsu Coral-LB
GPS SiRF mini2t
Map Navteq
Map Update DVD ATAPI
User Interface Touch screen





P/NO : MFL30242208