LG
Life's Good

OWNER'S MANUAL
CAR CD/MP3/WMA Receiver

Please read this manual carefully before operating your set and retain it for future reference.

LCS710BR / LCS710DAB / LCF810BR / LCF810DAB

Safety Information

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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 product.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

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.

Do not use for many hours at extremely low or high temperature. (-10 ℃ to 60 ℃)

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.

The temperature of unit's outside can be extremely high, please use the unit after proper installation in your vehicle.
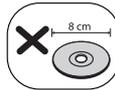
This unit cannot play 8 cm disc (use 12 cm disc only).

While driving, keep the sound volume at a proper level.
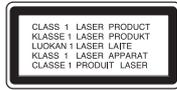
Do not drop it and avoid heavy impacts at anytime.

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 the electrical system, be sure to disconnect the E battery cable before beginning the installation.

CAUTION: This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service centre.

Use of controls, adjustments or the performance of 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.

```
CLASS 1  LASER  PRODUCT
KLASSE 1 LASER  PRODUKT
LUOKAN 1 LASER  LAITE
KLASS 1  LASER  APPARAT
CLASSE 1 PRODUIT  LASER
```

"This device is equipped with a portable battery or accumulator.

Safe way to remove the battery or the battery from the equipment:

Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators."
The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

You have to set the disc format option to [Mastered] in order to make the discs compatible with the LG players when formatting rewritable discs. When setting the option to Live File System, you cannot use it on LG players.

(Mastered/Live File System : Disc format system for Windows Vista)

⚠ Caution

When being connected in a wrong way, the unit displays as follows.

- Antenna port short : "EXTERNAL ON PORT SHORT CIRCUIT CHECK"

After connecting it again, restart the unit.

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 shall 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.

CE LG Electronics hereby declares that this/ these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2006/95/EC and ECE Regulation 10.03 (3.2.9).

European representative :

LG Electronics Service Europe B.V. Veluwezoom 15, 1327 AE Almere, The Netherlands

(Tel : +31-(0)36-547-8888)

The unit is compatible with the steering wheel remote control. The function allows operation by sending the steering wheel remote control signal to the unit.
For details, consult with your dealer.

Table of Contents

Front panel [LCS710BR / LCS710DAB]

[Front unit detached panel]

a ⏏
Ejects a disc.

b **SRC / • OFF**
- When pressed, selects function sources.
- When pressed and held, powers unit on or off.

c ►II
Plays and pauses playback.
🔇
Temporarily stops the sound.

d **Volume knob**
• Adjusts volume level.
• Confirms the settings.
• Checks tracks, files or preset stations.

e Ⓕ
In each mode, sets playback items.
⚙
Activates setting menu.

f **BAND**
- Selects a band in Tuner mode.
- Moves to a next USB drive.
• TA / iPOD
- Searches stations that have TA / TP
  information, when it is pressed and held.
- Activates Two way Control.

g Remote Sensor

h Display window

i ⏏
Opens the front panel.

j Ⓡ
Recording to USB / SD card.

k 📞
- Activates BT function.
- Answers a call.

l ⬆
Returns to the previous step.
📞ₒ
Ends a call.

m **< / >**
Skip / Search / Seek / Tune

n **EQ**
Improves sound quality.
- When pressed, selects the EQ function.

o **DISP**
- Press it, you can check the clock time.
- Press and hold it, you can turn on /off the
  display window and the light of LED buttons.

p **INT**
Intro scan.

q **RPT**
Repeats playback.

r **SHF**
Shuffles playback.

s **Numeric buttons (1 to 6)**
Selects a numbered preset station in TUNER.

t **AUX**
If connected to other portable player, you can
enjoy music from it on the unit.

u **USB port**

v **SD card slot**

Front panel [LCF810BR / LCF810DAB]

[Front unit detached panel]

a **SRC / • OFF**
- When pressed, selects function sources.
- When pressed and held, powers unit on or off.

b **▶II**
Plays and pauses playback.
🔇
Temporarily stops the sound.

c **Volume knob**
- Adjusts volume level.
- Confirms the settings.
- Checks tracks, files or preset stations.

d **F**
In each mode, sets playback items.

⚙
Activates setting menu.

e **BAND**
- Selects a band in Tuner mode.
- Moves to a next USB drive.
 • TA / iPOD
- Searches stations that have TA / TP
 information, when it is pressed and held.
- Activates Two way Control.

f Display window

g Remote Sensor

h **OPEN**
Opens the front panel.

i Ⓡ
Recording to USB / SD card.

j ☎
- Activates BT function.
- Answers a call.

k ⤺
Returns to the previous step.

☎
Ends a call.

l **< / >**
Skip / Search / Seek / Tune

m **EQ**
Improves sound quality.
- When pressed, selects the EQ function.

n **DISP**
- Press it, you can check the clock time.
- Press and hold it, you can turn on /off the
 display window and the light of LED buttons.

o **AUX**
If connected to other portable player, you can
enjoy music from it on the unit.

p **USB port**

q **SD card slot**

Remote control
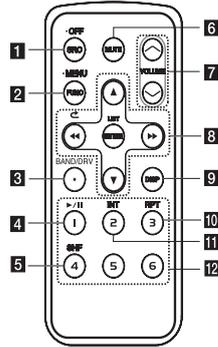
a SRC / • OFF
• When pressed, selects function sources.
• When pressed and held, powers unit off.

b FUNC
When pressed, sets playback items in each mode.
• MENU
When pressed and held, activates setting menu.

c BAND
Selects a band in Tuner mode.
DRV
Moves to a next USB drive.

d ▶/ II Plays or pauses playback.

e SHF Shuffles playback.

f MUTE Temporarily stops the sound.

g VOLUME ∧ / ∨
Adjusts volume level.

h ◀◀ / ▶▶
Skip / Search / Seek / Tune
↰
Returns to the previous step.
▲ / ▼
• List up / down
• Adjusts settings.
• Moves 10 MP3 / WMA tracks backward or forward if there is no folder or one folder on a CD.
• Moves to the previous or next folder if there are more than 2 folders on a CD.
ENTER / LIST
• Confirms the settings.
• Checks tracks, files or preset stations.

i DISP
• Press it, you can check the clock time.
• Press and hold it, you can turn on / off the display window and the light of LED buttons.

j RPT
Repeats playback.

k INT
Intro scan.

l Numeric buttons (1 to 6)
Selects a numbered preset station in TUNER.

Battery Installation
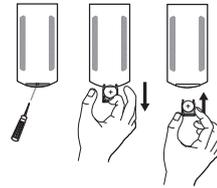
1. Pull out the battery holder with a sharp product like a ball point pen.

2. Put the battery with ⊕ and ⊖ correctly on the battery holder.

3. Push the battery holder back into its original position.

> **⚠ Note**
> • Use only one CR2025 (3 V) lithium battery.
> • Remove the battery if the remote control is not used for a long period of time.
> • Do not leave the product in a hot or humid place.
> • Do not handle the battery with metallic tools.
> • Do not store the battery with metallic materials.

About detachable control panel [LCS710BR / LCS710DAB]

Attaching the control panel
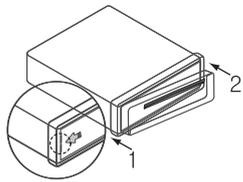
1. Align the left side of the panel with the stopper.

2. Push the right side of panel into the unit until it clicks.

> ⚠ **Caution**
> - The control buttons may not work properly if the control panel is not attached properly. If this occurs, gently press the display.
> - Do not leave the control panel in any area exposed to high temperatures or direct sunlight.
> - Do not drop the control panel or otherwise subject it to strong impact.
> - Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the control panel.

Detaching the control panel

1. Press the ⏏ to open the control panel.
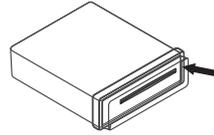
2. Push the control panel to right.
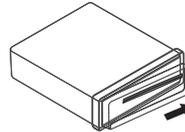
3. Pull the control panel out of the unit.

4. Put the detached control panel into the protective case.

Control panel
Protective Case
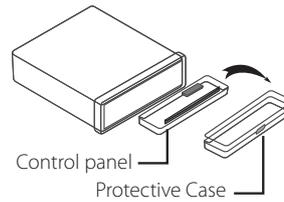
> ⓘ **Note**
>
> Periodically wipe the contacts on the back of the control panel with a cotton swap moistened with alcohol. For safety, turn off the ignition before cleaning, and remove the key from the ignition switch.
>
>
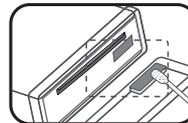
About detachable control panel [LCF810BR / LCF810DAB]

Attaching the control panel

1. Attach part **A** of the control panel to part **B** of the unit.
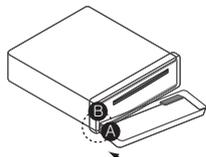
2. Attach part **C** of the control panel to part **D** of the unit while pushing the control panel to left.

3. Close the control panel.
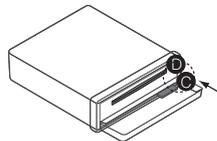
> ⚠ **Caution**
>
> • The control buttons may not work properly if the control panel is not attached properly. If this occurs, gently press the display.
>
> • Do not leave the control panel in any area exposed to high temperatures or direct sunlight.
>
> • Do not drop the control panel or otherwise subject it to strong impact.
>
> • Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the control panel.

Detaching the control panel

1. Press the OPEN to open the control panel.
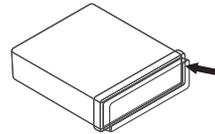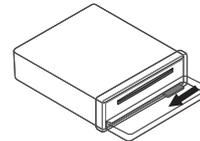
2. Push the control panel to left.

3. Pull the control panel out of the unit.

4. Put the detached control panel into the protective case.

Control panel
Protective Case

> ❗ **Note**
>
> Periodically wipe the contacts on the back of the control panel with a cotton swap moistened with alcohol. For safety, turn off the ignition before cleaning, and remove the key from the ignition switch.
>
>

2
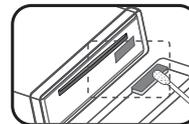
Connecting

Installation

Basic Installation

Before installing, make sure that the ignition-switch is set to OFF and remove the terminal of the car battery to avoid short-circuiting.

Bend the claws according to the thickness of the dashboard.

Control panel
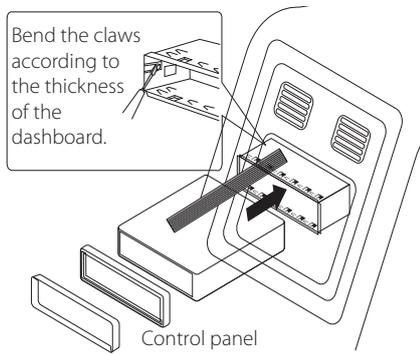
1.   Remove the existing receiver unit.
2.   Make the necessary connections.
3.   Install the installation sleeve.
4.   Install the unit into the installation sleeve.

Removing the existing receiver unit

If there is already an installation sleeve for the receiver unit in the dashboard, it must be removed.
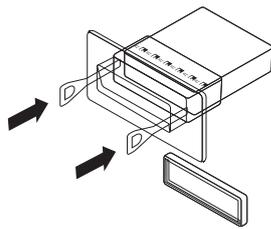
1.   Remove the rear support from the unit.
2.   Remove the control panel and trim ring from the unit.
3.   Insert the lever into the hole on one side of the unit. Perform the same operation on the other side and pull the unit out from the mounting sleeve.

ISO-DIN Installation

Control panel
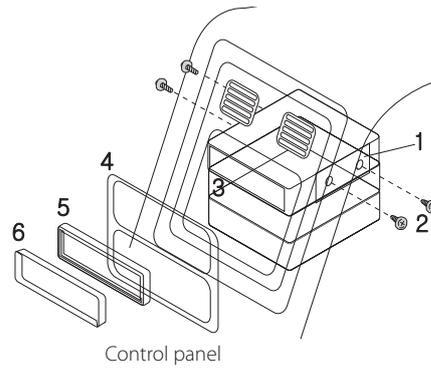
1.   Slide the unit into the ISO-DIN frame.
2.   Fit screws removed from the old unit.
3.   Slide the unit and frame into the dash opening.
4.   Install the dash panel or adapter plate.
     (According to models, this step may not be needed.)
5.   Install the trim ring to the unit.
6.   Install the control panel to the unit.

Connection

Connecting to a car

Before installing, make sure that the ignition-switch is set to OFF and remove the terminal of the car battery to avoid short-circuiting.

Wired remote input (Black): Hard-wired control adapter can be connected.

(Optional / Not supplied)

To Audio out

To Audio in

Sub-woofer Left —— Sub-woofer Right

Front Left —— Front Right

Rear Left —— Rear Right

Sub-woofer

Amplifier

SMB type of DAB Antenna can be connected.
(Only LCS710DAB / LCF810DAB)

A   B

Power
Antenna

B ❻ Power Antenna (Blue)

Control Relay

B ❼ Dimmer (Pink)

Dimmer Switch

B ❸ To Ignition (Red)

Ignition Switch

B ❹ To Battery (+) (Yellow)

B ❽ Ground (-) (Black)

BATTERY

B ❺ Remote On
(Blue / White)

Amplifier

A ❶ Gray : Front Right +

A ❷ Gray / Black Stripe: Front Right -

A ❸ Violet : Rear Right +

A ❹ Violet / Black Stripe: Rear Right -

A ❺ White : Front Left +

A ❻ White / Black Stripe: Front Left -

A ❼ Green : Rear Left +

A ❽ Green / Black Stripe: Rear Left -

B ❷ Phone Mute
(Orange)

B ❶ Not connected

Operation

Basic operations

1. Turn the unit on by pressing any key on the unit.
2. Select a source by pressing SRC.
3. Rotate the volume knob to adjust the volume on the unit.
   Or press VOLUME Λ / V on the remote control.

> **! Note**
>
> If a source is not connected to the unit, the source is not recognized.

Turning off the sound temporarily

1. Press 🔇 to mute your unit.
   Or press MUTE on the remote control.
2. To cancel it, press 🔇 again.
   Or press MUTE again.

Using EQ (Equalizer)

EQ is to increase or decrease the signal strength of audio frequencies. The function helps you to enjoy sound more plentifully.

Press EQ on the unit. And rotate the volume knob to select the item and press it. The indicator lights up in the following order.

FLAT ➡ XDSS+ ➡ POP ➡ CLASSIC ➡ ROCK ➡ JAZZ ➡ VOCAL ➡ SALSA ➡ SAMBA ➡ REGGAE ➡ RUSSY ➡ USER EQ1 ➡ USER EQ2

> **! Note**
>
> You can adjust sound level to your preference. Once you select a USER EQ1 / 2 mode and press and hold ⚙ on the unit, then adjust the sound level ((BAS (bass), MID (middle), TRB (treble), BALANCE (left / right speaker), FADER (front / rear speaker), SW (Subwoofer), SW-F (Subwoofer Frequency), A-EQ (Auto EQ)), it will be automatically stored for the currently selected USER EQ1 / 2 mode. Refer to the "For [SOUND] setting" for USER EQ1 / 2 mode on the page 13.

Checking the clock

1. Press DISP to check the clock.
2. Press it again to remove it.

Turning off the display light

1. Press and hold DISP.
2. Press and hold it again to turn it on.

> **! Note**
>
> Under the light-off condition, press any key, the light is turned on and then off automatically if you don't press it within a few seconds.

Resetting the unit

You can reset the unit when it does not operate properly.

1. Detach the control panel.

   Refer to page 8 to 9 for detaching the control panel.
2. Press the RESET hole with a sharp object.
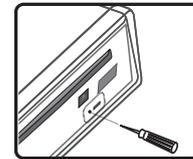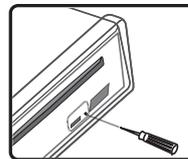
[LCS710BR / LCS710DAB]   [LCF810BR / LCF810DAB]

Adjusting the general settings

You can adjust [SOUND], [LIGHT] and [OTHER] settings.

On the unit

1. Press and hold ⚙.

2. Rotate the volume knob to select [SOUND], [LIGHT], or [OTHER] and press it.

3. Rotate the volume knob to select the item and press it.

4. Rotate the volume knob clockwise or counterclockwise to adjust the level.

5. Press the volume knob to confirm the setting.

   If you want to return to the previous step, press ⤺.

On the Remote Control

1. Press and hold FUNC / • MENU.

2. Press ▲ / ▼ to select [SOUND], [LIGHT], or [OTHER] and press ENTER.

3. Press ▲ / ▼ to select the mode and press ENTER.

4. Press ▲ / ▼ to adjust the level.

5. Press ENTER to confirm the setting.

   If you want to return to the previous step, press ⤻.

For [SOUND] setting

You can adjust sound quality by adjusting the level of BALANCE (left / right speaker), FADER (front / rear speaker), SW (Subwoofer), SW-F (Subwoofer Frequency) and A-EQ (Auto EQ).

- When you set the EQ to USER EQ1 / 2 mode. : You can adjust the sound level of BAS (bass), MID (middle), TRB (treble), BALANCE (left / right speaker), FADER (front / rear speaker), SW (Subwoofer), SW-F (Subwoofer Frequency) and A-EQ (Auto EQ)

• SW (Subwoofer)
  You can adjust the volume of subwoofer.

• SW-F (Subwoofer Frequency)
  You can enable the subwoofer.
  SW OFF <-> SW 55 Hz <-> SW 85 Hz <-> SW 120 Hz.

• A-EQ (Auto EQ) ON / OFF
  AUTO EQ operates only in the music file supported with genre in the device. When you set AUTO EQ to ON, POP, CLASSIC, ROCK, or JAZZ is automatically selected according to the music genre.

For [LIGHT] setting

You can adjust the light effects by adjusting LED, DIM, or DIM L.

• LED COL1 / COL2 / AUTO : You can change the LED window color.

• DIM (Dimmer) OFF / ON / AUTO : You can change the brightness of the display window during the power-on status.

Settings	Description
DIM ON	The display window becomes dark.
DIM OFF	The display window becomes bright.
DIM AUTO	The dimmer operates according to the car dimmer setting.

• DIM L (Dimmer Level) : When you set DIM to ON / AUTO, you can adjust the dimmer level. (-2, -1, 0, +1, +2)

For [OTHER] setting

- AUX (Auxiliary) ON / OFF
  It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using auxiliary equipment connected to this unit.

- DEMO OFF / ON
  You can change the initial indication on the display to information name (function name, EQ name, etc...) while listening to a source.

- BEEP 2ND / ALL
  BEEP 2ND : The beep is generated when a key is pressed for longer than 2 seconds.
  BEEP ALL : The beep is generated when any key is pressed.

- CLK (Clock)
  For the model RDS is not supported unit or even for a RDS supported unit.

  - When RDS CT information is not received and then you set CT to OFF, you can adjust the time by yourelf. Set the clock as follows ;

    1. Select a source to TUNER.

    2. Press the [F] to select the CT and then set CT to OFF.
       (Refer to the " Adjusting TUNER settings " on the page 18 for setting the CT (Clock Time) ON / OFF.)

    3. Press and hold ✿ on the unit to select [OTHER] and then select CLK by rotating the volume knob.

    4. Set the hour by rotating the volume knob.

    5. Press the volume knob to confirm the hour.

    6. Set the minute by rotating the volume knob.

    7. Press the volume knob to confirm the minute.

  - When RDS CT information is received ;
    The clock is displayed according to the RDS CT information.

  - When RDS is not supported, set the clock according to 3 to 7 steps.

Listening to a CD

[LCS710BR / LCS710DAB]

1. Insert a CD.

2. Rotate the volume knob on the unit to adjust the volume.
   Or press VOLUME Λ / V on the remote control.

[LCF810BR / LCF810DAB]

1. Press the OPEN to open the control panel.

2. Insert a CD.

3. Close the control panel.

4. Rotate the volume knob on the unit to adjust the volume.
   Or press VOLUME Λ / V on the remote control.
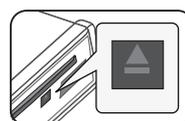
> **! Note**
>
> Make sure to press ▲ after pressing OPEN to eject a disc. Refer to the picture above.

Pausing or restarting CD playback

1. Press ▶II on the unit to pause playback.
   Or press ▶/ II on the remote control.

2. Press it to resume playback.

Searching for a section within a track / file

1. Press and hold < / > on the unit for about 1 second during playback.
   Or press and hold ◄◄ / ►► on remote control.

2. Press ▶II on the unit at the point you want.
   Or press ▶/ II on the remote control.

Skipping to another track/ file

Press **<** / **>** on the unit.
Or press **◄◄** / **►►** on the remote control.

Or

1. Press the volume knob on the unit.
   Or press ENTER on the remote control.

2. Rotate the volume knob on the unit to select a desired ROOT or folder and press it.
   Or press ▲ / ▼ and press ENTER on the remote control.

3. Rotate the volume knob on the unit to select a desired track / file and press it.
   Or press ▲ / ▼ and press ENTER on the remote control.

> **!** **Note**
>
> To skip to previous track, press briefly **<** within 3 seconds of playing time.

Checking information about your music

MP3 / WMA files often come with tags. The tag gives the Title, Artist or Album.

Press DISP repeatedly during MP3 / WMA / CD TEXT file playback. If there is no information, "NO TEXT" will be shown in the display window.

Playing back tracks / files in a way you want

For using applicable buttons

1. Press INT / RPT / SHF.

2. Press it again to cancel.

Or

Using the FUNC button

On the unit

1. Press **F**.

2. Rotate the volume knob to select an item and press it.

3. Rotate the volume knob to select the option.

4. Press the volume knob to set the option.
   If you want to return to the previous step, press ↰.

On the Remote Control

1. Press FUNC **/ •** MENU.

2. Press ▲ / ▼ to select an item and press it.

3. Press ▲ / ▼ to select the option.

4. Press ENTER to set the option.

   If you want to return to the previous step, press ↰.

- RPT (Repeat)
  The current selected tracks / files (1 RPT) or folder (■ RPT) on the disc is played repeatedly.

- SHF (Shuffle)
  Each files in the current selected folder (■ SHF) or all of the tracks / files (SHF) on the disc is played randomly. During random playback, even if you press **<**, you won't go back to the previous track.

- INT (Intro Scan)
  The first 10 seconds of all tracks / files (INT) or each files in the current selected folder (■ INT) on the disc are played.

- DEV (Device) USB / SD
  You can change the recording device.
  USB <-> SD

- MODE
  SPD REC / SPD COPY
  SPD REC : The recording speed is normal. And during the recording, you can listen to the music being recorded.
  SPD COPY : The recording speed is twice as fast. And during the recording, you can listen to the TUNER / DAB. But you cannot listen to the music being recorded.

> **!** **Note**
>
> DEV and MODE are only available when the disc is activating.

Note

- ■ : The icon is displayed during MP3 / WMA playback.

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

1. Sampling Frequency / 8 kHz to 48 kHz (MP3) 22.05 kHz to 48 kHz (WMA).

2. Bit rate / within 8 kbps to 320 kbps (include VBR) (MP3) 32 kbps to 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 ISO 9660 file system.

You have to set the disc format option to [Mastered] in order to make the discs compatible with the LG players when formatting rewritable discs. When setting the option to Live File System, you cannot use it on LG players.

(Mastered / Live File System : Disc format system for Windows Vista)

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.

Listening to music from an external device

1. Connect an external device to the AUX jack with line input cable.

2. Select a source to AUX.

3. Play the connected Auxiliary Equipment.

4. Rotate the volume knob on the unit to adjust the volume.
   Or press VOLUME Λ / V on the remote control.

Preventing radical changes in volume as switching sources

Only when you set AUX to ON as switching sources, you can adjust the volume level of each source to prevent radical changes in volume by selecting GAIN 0 / +3 / +6.

1. Press **F** on the unit.
   Or press FUNC / • MENU on the remote control.

2. Rotate the volume knob on the unit.
   Or press ▲ / ▼ on the remote control to set the option. (GAIN 0 / +3 / +6)

3. Press the volume knob on the unit.
   Or press ENTER on the remote control to confirm the setting.

4. If you want to return to the previous step, press ⏎ .
   Or press ⏎ on the remote control.

Listening to the TUNER

1. Press SRC repeatedly to select a source to TUNER.

2. Press BAND repeatedly to select a desired band.

3. For manual search, press and hold ＜ / ＞ on the unit until "MANUAL" is displayed. Then press it repeatedly to select a desired frequency. Or press and hold ◄◄ / ►► on the remote control.

   For auto search, press ＜ / ＞ on the unit until "SEARCH" is displayed. (Except MW) Or press ◄◄ / ►► on the remote control.

4. Rotate the volume knob on the unit to adjust the volume. Or press VOLUME ∧ / ∨ on the remote control.

Storing desired frequencies manually

1. Press BAND to select a desired band you want to store.

2. Select the desired frequency by using ＜ / ＞ on the unit. Or use ◄◄ / ►► on the remote control.

3. Press the volume knob and rotate the volume knob to select a preset station among 1 to 6 and then press and hold the volume knob until the beep sound is heard. Or press ENTER and press ▲ / ▼ to select a preset station among 1 to 6 and then press and hold ENTER until the beep sound is heard on the remote control.

   Or press and hold one of preset buttons among 1 to 6 on the remote control until the beep sound is heard.

   Or press and hold one of preset buttons among 1 to 6 on the unit until the beep sound is heard. (Only LCS710BR / LCS710DAB)

4. Repeat steps 1 to 3 to preset other stations.

> **❗ Note**
>
> When a station is stored on the preset numbers on which another station of the same band has already been preset, the previously preset station is automatically erased.

Listening to a preset station

1. Press BAND repeatedly to select a desired band.

2. Press the volume knob on the unit. Or press ENTER on the remote control.

3. Rotate the volume knob to select a preset station. Or press ▲ / ▼ on the remote control.

4. Press the volume knob. Or press ENTER on the remote control.

   Or

Press BAND and then press the desired preset button among 1 to 6 on the remote control.

Or press BAND and then press the desired preset button among 1 to 6 on the unit. (Only LCS710BR / LCS710DAB)

3

Operating

Adjusting TUNER settings

On the unit

1. Press [F].

2. Rotate the volume knob to select an item and press it.

3. Rotate the volume knob to set the option and press it.

4. If you want to return to the previous step, press ⏏.

On the Remote Control

1. Press FUNC **/** • MENU.

2. Press ▲ / ▼ to select an item and press ENTER.

3. Press ▲ / ▼ to set the option and press ENTER.

4. If you want to return to the previous step, press ↪.

- PTY (Program type, RDS (OPTIONAL))
It searches the radio stations by program type of FM tuner.
The program types are displayed as follows.

NEWS	FINANCE	EASY M
AFFAIRS	CHILDREN	LIGHT M
INFO	SOCIAL	CLASSICS
SPORT	RELIGION	OTHER M
EDUCATE	PHONE IN	JAZZ
DRAMA	TRAVEL	COUNTRY
CULTURE	LEISURE	NATION M
SCIENCE	DOCUMENT	OLDIES
VARIED	POP M	FOLK M
WEATHER	ROCK M	

- A / S (Auto Store)
The six strongest broadcasting frequencies will be stored under preset button 1 to 6 in the order of their signal strength. To cancel, press the volume knob (or ENTER on the remote control).

- P / S (Preset scan)
Each preset station appears. To cancel, press the volume knob (or ENTER on the remote control).

- SENS (Tuner sensitivity) MID / HI / LOW
In an area in which signal reception is weak, it helps the tuner to search more stations. The weaker the reception is, the lower option you should set to.

RDS (OPTIONAL)

- AF (Alternative Frequency) ON / OFF
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.

- REG (Region) ON / OFF
REG ON : 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 : The unit switches to another station, within the same network when the receiving signals from the current station become weak. (In this mode, the program may differ from the one currently received.)

- TA (Traffic Announcement) ALARM / SEEK
TA ALARM : When the tuned station has no TP information for 5 seconds, a double beep sound is output.
TA SEEK : When the tuned station does not receive TP information for 5 seconds, the receiver retunes to the next station that has the TP information.

- PI (Programme Identification) SOUND / MUTE
PI SOUND : When the frequency of a tuned station switches to an AF (Alternative frequency) with an unidentified PI, it keeps the sound.
PI MUTE : When the frequency of a tuned station switches to an AF with an unidentified PI, it mutes the sound until the PI is identified.

- CT (Clock Time) ON / OFF
You can use the RDS CT information to update the time. When RDS CT information is not received and then you set CT to OFF, you can adjust the time by yourself. Refer to the page 14 for setting the clock.

3

Operating

Listening to the DAB (Only LCS710DAB / LCF810DAB)

1. Press SRC repeatedly to select a source to DAB.

2. Press BAND repeatedly to select a desired band.

3. Press the volume knob on the unit.
   Or press ENTER on the remote control.

4. Rotate the volume knob to select a station.
   Or press ▲ / ▼ on the remote control.

5. Press the volume knob.
   Or press ENTER on the remote control.

6. Press ❮ / ❯ on the unit to skip to another station.
   Or press ◀◀ / ▶▶ on the remote control.

   For auto search, press and hold ❮ / ❯ on the unit until "ENS SRCH" (Ensemble Search) is displayed.
   Or press and hold ◀◀ / ▶▶ on the remote control.

7. Rotate the volume knob on the unit to adjust the volume.
   Or press VOLUME Λ / V on the remote control.

Storing desired frequencies manually

1. Press BAND to select a desired band you want to store.

2. Select the desired frequency by using ❮ / ❯ on the unit.
   Or use ◀◀ / ▶▶ on the remote control.

3. Press and hold the volume knob and rotate the volume knob to select a preset station among 1 to 6 and then press and hold the volume knob until the beep sound is heard.
   Or press and hold ENTER and press ▲ / ▼ to select a preset station among 1 to 6 and then press and hold the ENTER until the beep sound is heard on the remote control.

   Or press and hold one of preset buttons among 1 to 6 on the remote control until the beep sound is heard.

   Or press and hold one of preset buttons among 1 to 6 on the unit until the beep sound is heard. (Only LCS710DAB)

4. Repeat steps 1 to 3 to preset other stations.

> ⓘ Note
>
> When a station is stored on the preset numbers on which another station of the same band has already been preset, the previously preset station is automatically erased.

Listening to a preset station

1. Press BAND repeatedly to select a desired band.

2. Press and hold the volume knob on the unit.
   Or press ENTER on the remote control.

3. Rotate the volume knob to select a preset station.
   Or press ▲ / ▼ on the remote control.

4. Press the volume knob.
   Or press ENTER on the remote control.

Or

Press BAND and then press the desired preset button among 1 to 6 on the remote control.

Or press BAND and then press the desired preset button among 1 to 6 on the unit. (Only LCS710DAB)

3

Operating

Adjusting DAB settings

On the unit

1. Press **F**.

2. Rotate the volume knob to select an item and press it.

3. Rotate the volume knob to set the option and press it.

4. If you want to return to the previous step, press ⬅.

On the Remote Control

1. Press FUNC **/ •** MENU.

2. Press ▲ / ▼ to select an item and press ENTER.

3. Press ▲ / ▼ to set the option and press ENTER.

4. If you want to return to the previous step, press ↩.

- PTY (Program type, RDS (OPTIONAL))
  The program types are displayed as follows. When you select an item, it will start operating immediately.

NEWS	FINANCE	EASY M
AFFAIRS	CHILDREN	LIGHT M
INFO	SOCIAL	CLASSICS
SPORT	RELIGION	OTHER M
EDUCATE	PHONE IN	JAZZ
DRAMA	TRAVEL	COUNTRY
CULTURE	LEISURE	NATION M
SCIENCE	DOCUMENT	OLDIES
VARIED	POP M	FOLK M
WEATHER	ROCK M	

- A-SCAN (Auto Scan)
  Scans all available services. To confirm the lists, press the volume knob and rotate the volume knob.

- P-SCAN (Preset Scan)
  The broadcasting frequencies stored in the preset number are received Sequentially.
  Each broadcasting frequencies are received for 6 seconds.

- DRC (Dynamic Range Control) ON / OFF
  Automatically adjusts the audio level.

- ANNOUNCE (Announcement) X / O
  Provides information on selected contents.
  TRFC (Traffic), TRNSP (Transport), WARN (Service Warning), NEWS, WTHR (Weather), EVNT (Event), SEVNT (Special Event), PINFO (Program Info), SPORT (Sport Report), FNNC (Financial Report)

- LINK
  DAB+FM / OFF / DAB / FM
  When the reception quality drops, the tuner automatically changes to another station in the network.
  If the broadcasting is disconnected during operation, it does not sound until the next broadcasting is linked. It takes about 10 seconds. Depending on the amount of broadcasting information, it can be shorter or longer.

> **① Note**
>
> If each preset number has no stored frequency, "EMPTY" is displayed.

3

Operating

Using an USB device / SD card

[USB]

1. Open the USB cover.

2. Connect the USB device.

3. Press SRC repeatedly to select a source to USB.

4. Rotate the volume knob on the unit to adjust the volume.
   Or press VOLUME ∧ / ∨ on the remote control.

[SD]

1. Detach the control panel. (Refer to "About detachable control panel" on page 8 to 9.)

2. Connect the SD card.

3. Attach the control panel.

4. Press SRC repeatedly to select a source to SD.

5. Rotate the volume knob on the unit to adjust the volume.
   Or press VOLUME ∧ / ∨ on the remote control.
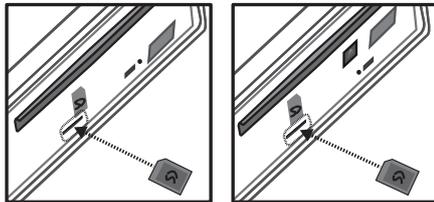
[LCS710BR / LCS710DAB]   [LCF810BR / LCF810DAB]

Moving to another drive

When connecting this unit to multi-reader, press BAND on the unit (or DRV on remote control) to go the next drive. Each time you press the button, the driver modes change.

Quick Search of a desired file

You can select and play a desired file regardless of the order in USB device / SD card.

1. Press the volume knob on the unit.
   Or press ENTER on the remote control.

2. Rotate the volume knob on the unit to select a desired ROOT or folder and press it.
   Or press ▲ / ▼ and press ENTER on the remote control.

3. Rotate the volume knob on the unit to select a desired track / file and press it.
   Or press ▲ / ▼ and press ENTER on the remote control.

> **Note**
>
> Other functions are same with "Listening to a CD". Refer to page 14 to 15.

Playable USB device / SD card Requirement

- Do not extract the USB device / SD card during operation (play, etc.).

- An USB device / SD card which requires additional programme installation when you have connected it to a computer, is not supported.

- Regular back up is recommended to prevent data loss.

- If you use a USB extension cable, USB HUB, USB Multi-reader, or external HDD, the USB device may not be recognized.

- When you connect a partitioned USB device into the unit, only the first partition is recognized on it.

- Some USB device may not work with this unit.

- Digital camera and mobile phone are not supported.

- USB Port of the unit cannot be connected to PC. The unit cannot be used as a storage device.

- Using FAT (16 / 32) file system is supported. Using NTFS file system is supported to read only.

Recording to USB device / SD card

[USB]

1. Open the USB cover and connect it to the unit.

2. Select one of the following lists.
   (CD, FM tuner, DAB, Bluetooth Handsfree)

3. Press ⓡ to start recording.
   For one track CD recoridng, press it once.
   For all tracks recording, press and hold it until the beep is heared. (In case of MP3 / WMA CD, recorded all files in the folder.)

4. Press it again to stop.

3

Operating

[SD]

1. Detach the control panel and connect it to the unit. Then attach the control panel.
    (Refer to "About detachable control panel" on page 8 to 9.)

2. Select CD only.

3. Press ⓡ to start recording.
    For one track CD recoridng, press it once.
    For all tracks recording, press and hold it until the beep is heared. (In case of MP3 / WMA CD, recorded all files in the folder.)

4. Press it again to stop.

! Note

- [USB] Only in CD, FM tuner, DAB and Bluetooth Handsfree, recording is available.
  [SD] Only in CD, recording is available.

- Do not remove the USB device / SD card during recording, or an incomplete file may be made and not deleted on PC.

- When USB device / SD card is not connected, "NO USB" / "NO SD" [LCS710BR / LCS710DAB] "REC ERR NO USB" / "REC ERR NO SD" [LCF810BR / LCF810DAB] displays and cannot record.

- When USB device / SD card memory is full, "MEMORY FULL" [LCS710BR / LCS710DAB] "REC ERR MEMORY FULL" [LCF810BR / LCF810DAB] displays and stops recording.

- While FM tuner / DAB / Bluetooth Handsfree recording, the broadcastings are recorded as a file every 20 minutes.

- While one track CD recording, "REC 1" appears. While other recording, "REC" appears.

- You can adjust the recording speed. (Refer to the page 15.)

Listening to music by connecting iPod / iPhone

You can enjoy iPod / iPhone-stored music on the unit by connecting it to the USB connector using the appropriate cable.
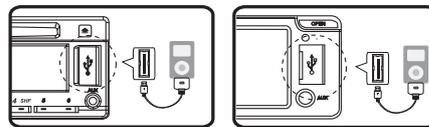
[LCS710BR / LCS710DAB]   [LCF810BR / LCF810DAB]

1. Open the USB cover.

2. Connect the iPod / iPhone.

3. Press SRC to select a source to USB.

4. Rotate the volume knob to adjust the volume on the unit.
    Or press VOLUME Λ / V on the remote control.

! Note

Refer to the page 23 to check the compatible iPod model for this unit.

Pausing or restarting playback

1. Press ▶II on the unit to pause playback.
    Or press ▶ / II on the remote control.

2. Press it to resume playback.

Searching for a section within a track / file

During playback, press and hold < / > and then release at a point you want.

Checking information about your music

MP3 / WMA files often come with tags. The tag gives the Title, Artist or Album.

Press DISP repeatedly during MP3 / WMA file playback. If there is no information, "NO TEXT" will be shown in the display window.

Playing back tracks / files in a way you want

On the Unit

1. Press [F].

2. Rotate the volume knob to select an item and press it.

3. Rotate the volume knob to select the option.

4. Press the volume knob to set the option.
   If you want to return to the previous step, press ⏏.

On the Remote Control

1. Press RPT / SHF.

2. Press it again to cancel.

                    Or

1. Press FUNC / • MENU.

2. Press ▲ / ▼ to select an item and press ENTER.

3. Press ▲ / ▼ to select the option.

4. Press ENTER to set the option.

   If you want to return to the previous step, press ⏎.

- RPT (Repeat)
  The current selected tracks / files (1 RPT) or folder (■ RPT) on the iPod / iPhone is played repeatedly.

- SHF (Shuffle)
  Each file in the currently selected album (■ SHF) or all of the tracks / files (SHF) on the iPod / iPhone are played randomly.
  During random playback, even if you press <, you won't go back to the previous track.

- SPD (BOOK SPEED)
  You can adjust the audiobook speed of iPod / iPhone to NOR (Normal), FAST or SLOW.

Playing back files by music menus

You can check files by music menus and play it back.
The music menus are as follows.

PLAYLISTS ➡ ARTISTS ➡ ALBUMS ➡ GENRES ➡ SONGS ➡ COMPOSER ➡ AUDIO BOOK ➡ PODCAST ➡ ...

1. Press the volume knob on the unit.
   Or press ENTER on the remote control.

2. Rotate the volume knob on the unit to select a music menu and press it.
   Or press ▲ / ▼ on the remote control.

3. Rotate the volume knob on the unit to select a file.
   Or press ▲ / ▼ on the remote control.

4. Press the volume knob on the unit to confirm the setting.
   Or press ENTER on the remote control.

5. If you want to return to the previous step, press ⏏.

   Or press ⏎ on the remote control.

Two way Control

You can control on the unit and iPod / iPhone.

- Press • TA / iPOD on the unit. Then playback is paused. And you can control on the unit and iPod / iPhone.

- While using the Two way Control, any functions are not available on the unit.

- Press • TA / iPOD again to cancel the Two way Control.

Compatible iPod models

iPod classic (5th / 6th generation)
iPod nano (1st / 2nd / 3rd / 4th / 5th generation)
iPod touch (1st / 2nd / 3rd generation)
iPhone
iPhone 3G
iPhone 3GS
iPhone 4

We recommend that you use the OS Version 4.2.1 or more.

3

Operating

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone 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.
iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
iPhone is a trademark of Apple Inc.

Connecting a Bluetooth wireless technology

Before you start the pairing procedure, make sure the Bluetooth wireless technology is turned on in to your phone. Refer to your phone's user guide. Pairing links your unit and phone with Bluetooth wireless technology, and is required only once for the initial setup. If the connection is successful, the phone is registered (Device 1 to 10) and the flashing of indicator stops on the unit. The process of pairing may be different depend on the phones. The PIN CODE is 1234.

	ON PLAYER
1. Enter the menu.	☎
2. Find the "CONNECT" menu.	Rotate the volume knob
3. Search the phones supported Bluetooth wireless technology.	Press the volume knob
4. Select a phone you want to connect.	Rotate the volume knob
5. Connect the phone.	Press the volume knob
6. Select the "CONNECT" menu.	Press the volume knob

Unit has a built-in microphone.
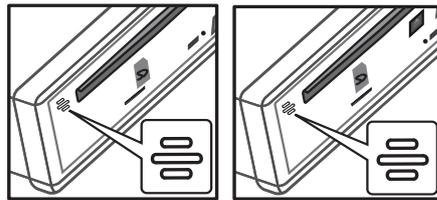
[LCS710BR / LCS710DAB]   [LCF810BR / LCF810DAB]

Using the buttons for Bluetooth wireless technology
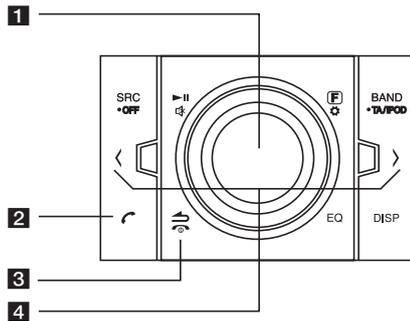
1 **Volume knob**

• Press the volume knob : Go to the next contents of the setting.

• Rotate the volume knob : Move the contents vertically on the setting or choose a spell when you write the words on the unit.

2 📞

• Press it to enter BT function.

• Answers a call.

3 ⬆

• Returns to the previous step.

📞

Ends a call.

4 **< / >**

Adjusts the mic volume while talking on the phone by BT function.

• **<** : Press it to delete a spell or go back previous contents. Press more 1 second to delete all words entered on display when you write some words on the unit.

• **>** : When you write some words on the unit, press it to move next space on display.

Using a Bluetooth wireless technology

Disconnecting a phone

Go to the menu (📞 -> CONNECT -> LIST -> Connected device name -> DISCONN).

Answering and Ending a call

When your unit rings, press 📞 to answer a call.

To end a call, press 📞.

Rejecting a call

When your unit rings, press 📞.

Making a call saved as a preset number

Press 📞 and a preset number (1 to 6).

Checking missed calls

When an incoming call is not answered, the missed call message is displayed on the display window (without headset profile). When the " ✱? " appears, go to the menu (📞-> CALL -> LASTCALL). You can check the list of missed call. To place a call, press 📞. And to end the call and hang up the phone, press 📞.

> ⚠ **Note**
>
> • The lists of LAST CALL are sorted from newest to oldest entries.
>
> • When you want to make an international call, press **>** to add "+" and to delete it press again.
>
> • "+" can only be added when the detail list of LASTCALL is selected.
>
> • Rejecting a call / Making a call saved preset number / Missed call notification (These features are only available on phones with Headset / Handsfree profile.)
>
> • You can record the Bluetooth Handsfree to USB. (Refer to the page 21 to 22.)

3

Operating

Saving call numbers in the latest calls

You can easily save up to 6 phone numbers in the latest calls. Go to the menu (CALL -> LASTCALL -> Rotate the volume knob to select the phone number you want to save -> SAVE -> select 1 to 6).

Audio transfer

It is possible to switch the audio connection between your phone equipped with Bluetooth wireless technology and this unit.

1. Press 📞 to answer the call.

2. Press 📞 again. The "PRIVATE" is displayed.

If the private mode is selected on the unit, press 📞 to return to the call to hands-free mode.

Paring your unit and device with Bluetooth wireless technology (MP3 Player, MP3 Phone...)

When you activate your Bluetooth device's linked unit, you can listen to MP3 with wireless connections. The method of use for a Bluetooth device is the same as when using a Bluetooth phone. Refer to the phone's user guide for using this function.

Playing MP3 files

When you turn Bluetooth on, your device supported Bluetooth wireless technology displays "Bluetooth" on the home screen. The Bluetooth remains on until you turn the device off. Press SRC repeatedly to select "BT Music". To play an MP3 file stored on your device. Refer to the phone's user guide for using this function. This feature is only available on phones with A2DP(Advanced Audio Distribution Profile).

Bluetooth wireless technology profiles information

In order to use Bluetooth wireless technology, devices must be able to interpret certain profiles. This unit is compatible with following profiles.

GAP (Generic Access Profile)

HFP (Hands Free Profile)

HSP (Hands Set Profile)

GAVDP (Generic Audio / Video Distribution Profile)

A2DP (Advanced Audio Distribution Profile)

AVRCP (Audio / Video Distribution Remote Control

Profile)

OPP (Object Push Profile)

PBA / PBAP (Phone Book Access Profile)

WICS (Wireless Controller & Synchronization)

You can control the unit by using the "WICS" application.

1. Search the "WICS" application and install it.

[Displays installed "WICS" application]

2. Pairing links your unit and iPhone with Bluetooth wireless technology. (Refer to the page 24.)

3. When you run the "WICS" application, activating source is displayed after initial screen. Then you can control the unit on iPone.

[Initial screen]   [Tuner screen]

Adjusting the setting

1. Press 📞.

2. Rotate the volume knob to select an item and press it.

3. Rotate the volume knob to set the option and press it.

4. If you want to return to the previous step, press ⬅️.

CALL

- LASTCALL
  Phone number list (received, dialed, missed). To call the phone number, select the phone number and press 📞.
  To save it, select the phone number and press the volume knob. "SAVE" will be shown. Press the volume knob again. Rotate the volume knob to select a preset number (1 to 6). Press the volume knob again. The phone number be saved.

- DIAL
  Enters the number directly on the unit. To select the 0 to 9 rotate the volume. Press > to make the phone number. To call it, Press 📞.

- PRESET
  Checks and deletes the phone number saved preset number. To delete the phone number, select the preset number by rotating the volume knob. And then press the volume knob. Press the volume knob again when the "DELETE" is displayed.

P-BOOK

- LIST
  Checks the list of the phone numbers saved by phonebook.

- SEARCH
  Searches the phone number in the list. (English and Russian only)

- GET
  Getting the phonebook from the phone automatically. This menu is only available on phones with PBA / PBAP (Phone Book Access Profile).

- ADD
  P-BOOK -> ADD -> Press the volume knob -> "000/500" will be displayed. Then send the phonebook data from your phone. Depend on your phone, the sending process is different. Refer to your phone's guide. This menu is only available on phones with OPP (Object Push Profile).

CONNECT

- LIST
  Checks the list of the Connected Device Name.

- SEARCH
  Searches the phones available to connect. The Connected Device Name is displayed on the top.

SETUP

- VISIBLE
  Makes it is impossible to search this unit. (SHOWN <-> HIDDEN)

- AUTO CON
  Adjusts connection with automatically or not. (ON <-> OFF)

- AUTO ANS
  Adjusts answering automatically or not. (AUTO <-> MANUAL)

- MIC VOL
  Adjusts microphone volume on the phone from 1 to 5. While you are on the phone with Bluetooth wireless technology, rotate the volume knob to adjust the MIC volume.

- REDIAL
  Adjusts the counts of redial. (1 TIME <-> 2 TIMES)

INFO

- NAME
  Changes the name of this unit.

- ADDRESS
  Checks the address.

- PIN-CODE
  Changes the PIN code. Default is 1234.

Phone compatibility list

Bluetooth list and manufacturing company applicable.	H : Hnadsfree A : Audio Streming (A2DP)	P : Phonebook Sync (GET) V : Object Push (Vcard, ADD)

Company	List	H	A	P	V
Nokia	3230	O			O
	3250	O			O
	3650	O			O
	5300	O	O	O	O
	6021	O		O	O
	6103	O		O	O
	6120	O	O		O
	6131	O	O	O	O
	6230	O			O
	6270	O		O	
	6280	O	O	O	O
	6300	O	O	O	O
	6500	O	O		O
	6600	O			O
	6630	O			O
	6650	O		O	O
	6670	O			O
	6680	O			O
	6681	O			O
	6820	O			O
	7370	O		O	O
	7380	O		O	O
	7610	O			O
	7650				O
	7600	O			O
	8600	O	O	O	O
	8800	O	O	O	O
	9500	O			O
	3650 (Italy)	O			O
	5500 SPORT	O			O
	6230i	O		O	O
	6820a	O			O
	7500prism	O	O		O
	7650 (Italy)				O
	8910i	O		O	O
	9300l	O			
	E50	O			O
	E51	O	O		O
	E60	O			O
	E61	O			O
	E62	O			O

Company	List	H	A	P	V
Nokia	E70	O			O
	E71	O	O	O	O
	E73	O	O		O
	E90	O	O		O
	N70	O			O
	N71	O			O
	N73	O	O		
	N77	O	O		O
	N80	O			O
	N82	O	O		O
	N90	O			O
	N91	O	O		O
	N92	O			O
	N93	O			O
	N95	O	O		O
	N-Gage	O			O
	N-Gage QD	O			O
	E63	O	O	O	O
	N72	O	O		O
	N97	O	O		O
	N81	O	O		O
	N85	O	O		O
	N86 8MP	O	O		O
	N95	O	O		O
	N96	O	O		O
	5530	O	O		O
	5310	O	O	O	O
	5320	O	O		O
	5800i	O	O		O
	5800	O	O		O
	6120C	O	O		O
	6303C	O	O	O	O
	2630	O			O
	6110 Navigator	O	O		O
	6288	O	O		O
	E65	O			O
	E75	O	O		O
Motorola	A1000	O			O
	A780	O			O
	E1000	O		O	O
	E1070	O	O	O	O

Company	List	H	A	P	V
Motorola	E398	O		O	O
	E550	O		O	O
	E680	O			O
	E680i	O	O		O
	KRZR K1	O	O	O	O
	L72	O	O	O	O
	RAZR V3	O		O	
	RAZR V3i	O		O	O
	RAZR V3X	O	O		O
	RAZR V9	O	O	O	O
	RIZR Z3	O	O		O
	RIZR Z8	O	O		O
	ROKR E2	O	O		O
	ROKR E6	O	O		O
	SLVR L7	O		O	
	U6	O		O	O
	V195	O		O	
	V360	O		O	O
	V3ROHS	O	O		O
	V500	O		O	O
	V525	O		O	O
	V600	O		O	O
	A1600	O			O
	A1890	O	O		
	V8	O	O		O
	A1200	O			O
	V6	O	O		O
	W510	O	O		O
SONY ERICSSON	K610i	O	O	O	O
	K618i	O	O		O
	K700i				O
	K750i	O		O	O
	K770i	O	O		O
	K800i	O	O	O	O
	K850i	O	O	O	O
	M600i	O	O	O	O
	P1i	O	O	O	O
	P990i	O	O	O	O
	S500i	O	O	O	O
	S700i				O
	T610	O		O	O

| Bluetooth list and manufacturing company applicable. | | | H : Hnadsfree   P : Phonebook Sync (GET) A : Audio Streming (A2DP)   V : Object Push (Vcard, ADD) |

Company	List	H	A	P	V
SONY ERICSSON	T68i	O		O	O
	V600	O		O	O
	V800	O		O	O
	W550i	O		O	O
	W710i	O	O	O	O
	W800i	O		O	O
	W810i	O		O	O
	W850i	O	O	O	O
	W980i	O	O	O	O
	Z1010	O		O	O
	Z600	O		O	O
	W300	O			O
	W880	O	O		O
	W910	O	O		O
	Z610	O	O		O
SAMSUNG	D500	O			
	D600	O	O		O
	D820	O	O		O
	D900	O	O	O	O
	E770	O	O	O	O
	E900	O		O	O
	i600	O	O		O
	T509	O			O
	X820	O	O	O	O
	Z540V	O			
	A707(SYNC)	O	O		
	S5230	O	O		O
	D900	O	O		O
	i8910	O	O		O
	S8003	O	O		O
	S8300	O	O		O
	E950	O	O		O
	F210	O	O		O
	F300	O	O		O

Company	List	H	A	P	V
SAMSUNG	G600	O	O		O
	i900	O	O		O
	L600	O	O		O
	U600	O	O		O
	U700	O	O		O
	Z170	O	O		O
	T509	O			O
SIEMENS	EF81	O		O	O
	S55	O			O
	S65	O			O
	S88	O			O
	SD65	O			O
	SL75	O		O	O
	SX1	O			O
	SXG75	O		O	O
BLACK BERRY	8800	O		O	
	8100(PEARL)	O			
	8707v	O		O	O
	BOLD 9000	O	O		O
	Curve 8310	O	O	O	O
HP	HW6915	O		O	O
	iPAQ h6315	O			O
PALM	Treo750v	O	O		O
PHILPS	O2 Xda Atom	O	O		O
SHARP	GX15	O			O
	GX25	O			O
I-MATE	K-JAM	O			O
PANTECH	PG-6200	O	O		O
	PG-8000	O			O
HTC	Touch	O	O		O
	Touch Pro	O	O		O

Company	List	H	A	P	V
LG	CU500	O	O		O
	KE970	O	O		O
	KG245	O			O
	KG800	O			O
	U880	O			O
	U890	O	O		
	M4410	O			O
	KF600	O	O		O
	KE850 Prada	O	O		O
	KG290	O			O
	KE500	O			O
	KM500	O			O
	KU990 Viewty	O	O		O
	KU580	O	O		O
	KU970	O	O		O
	KU960	O	O		
	U370	O			O
	KE770	O	O		O
	GD900	O	O		O
	KF900 Prada	O	O		O
	KC910 Renoir	O	O		O
	KM900 Arena	O	O		O
	KS10	O	O		O
	KU250	O	O		O
NEC	N750	O			
	N930	O			
SAGEM	MYX6-2	O			
Apple	iPone	O			
	iPone 3G	O	O		
	iPone 3GS	O	O	O	

> **① Note**
> - When the phone features <Bluetooth Power Save> function, you should make the function turned on to maintain connection.
> - When you switch the call mode from handsfree to phone, the connection may be disconnected.
> - Some phones don't support Reject function.
> - Low battery in phone may cause the problems.

Bluetooth®

"The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by LG Electronics is under license. Other trademarks and trade names are those of their respective owners."

Bluetooth® wireless technology is a system which allows radio contact between electronic devices within a max range of 10 meters.

Connecting individual devices under Bluetooth® wireless technology does not incur any charges. A mobile phone with Bluetooth® wireless technology can be operated via the Cascade if the connection was made via Bluetooth® wireless technology.

operating condition for using a Bluetooth wireless technology function

- Close windscreen.
- Turn off the air conditioner / heater.
- Stop the vehicle or drive at low speed.
- Make the call in a quiet location.
  - There may be differences in call quality depending on phone type, road conditions weather, etc.
  - Using the phone while driving may cause unexpected accidents.
  - The Bluetooth wireless technology function may not operate properly with certain types of phones equipped with Bluetooth wireless technology.

3

Operating

Troubleshooting

Symptoms	Cause	Solution
Power doesn't turned on. The unit doesn't operate.	Leads and connectors are not properly.	Confirm once more that all connections are correct.
	The fuse is blown.	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.
	Noise and other factors are causing the built in microprocessor to operate incorrectly.	Turn the unit off and then on again.
No sound is heard.	Cables are not connected correctly.	Connect the cables correctly.
There's audio skipping.	This unit is not firmly secured.	Secure this unit firmly.
The playback is not possible.	The disc is dirty.	Clean the disc.
	The disc of unplayable type is loaded.	Check what type the disc.
Radio stations cannot be tuned in.	The signal strength of the stations is too weak. (When tuning in with automatic tuning.)	Tuned in the stations manually.
	No station has been preset or preset stations have been cleared. (When tuning by scanning preset stations.)	Preset the stations. (Refer to the page 17.)
iPod/ iPhone does not work.	Check whether iPod / iPhone is connected to the unit correctly.	Connect it to the unit correctly.
The unit does not operate correctly even when the appropriate remote control buttons are pressed.	Battery power is low.	Load a new battery.

Specifications

General

Output Power : 53 W x 4 CH (Max.)

Power Source : DC 12 V

Speaker impedance : 4 Ω

Ground System : Negative

Dimensions (W x H x D) : (178 x 50 x169) mm
(without Control Panel)

Net Weight : 1.37 kg

TUNER

FM Tuning Range :

87.5 MHz to 108.0 MHz
S / N Ratio : 55 dB
Distortion : 0.7 %
Usable Sensitivity : 12 dBμV

AM (MW) Tuning Range :

(520 to 1720) kHz or (522 to 1620) kHz
S / N Ratio : 50 dB
Distortion : 1.0 %
Usable Sensitivity : 28 dBμV

DAB

Distortion : 0.1 %

Channel Separation (1 kHz) : 68 dB

CD

Frequency Response : 20 Hz to 20 kHz
S / N Ratio : 80 dB
Distortion : 0.12 %
Channel Separation (1 kHz) : 55 dB

AUX

Frequency Response : 20 Hz to 20 kHz
S / N Ratio : 80 dB
Distortion : 0.1 %
Channel Separation (1 kHz) : 45 dB
Max Input Level (1 kHz) : 1.1 V

USB

Version : USB 1.1 or USB 2.0 Full Speed

Bus Power Supply (USB) : DC 5 V ⎓ 1 A

SD

Distortion : 0.1 %

Line OUT

Frequency Response : 20 Hz to 20 kHz

Output Voltage : 2 V (Max.)

Subwoofer

Frequency Response : 20 Hz to 120 Hz

Output Voltage : 2 V (Max.)

• Design and specifications are subject to change
  without notice.

Federal Communications Commission(FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the users authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-. Reorient or relocate the receiving antenna

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver connected

Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) this device may not cause harmful interference, and

2) this device must accept any interference received, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an

uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

End users must follow the specific operation instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating ing conjunction with any other antenna or transmitter.