

# KENWOOD

## KDC-U553BT

CD-RECEIVER

### INSTRUCTION MANUAL

JVC KENWOOD Corporation



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# Safety

## WARNING

Stop the car before operating the unit.

### Important to know...

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- **Caution:** Adjust the volume so that you can hear the sound outside the car. Driving with the volume adjusted to a too high level may cause an accident.
- **Condensation:** When the car is air-conditioned, moisture may collect on the laser lens. This may cause disc read errors. In this case, remove the disc and wait for the moisture to evaporate.
- The illustrations in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the illustrations may differ from what appears on the actual equipment.
- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase external components, check with your Kenwood dealer to make sure that they work with your model and in your area.

## Maintenance

**Cleaning the unit:** Wipe off the dirt on the panel with a dry silicon or soft cloth. Failure to observe this precaution may result in damage to the monitor or unit.

**Cleaning the connector:** The unit may not function properly if the connector between the unit and faceplate are dirty. Detach the faceplate and clean the connector with a cotton swab gently, being careful not to damage the connector.



Connector (on the reverse side of the faceplate)

## The marking of products using lasers

### CLASS 1 LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1.

It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

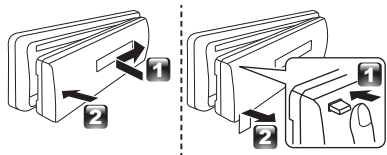
■ The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by JVC KENWOOD Corporation is under license. Other trademarks and trade names are those of their respective owners.

■ "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

■ iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

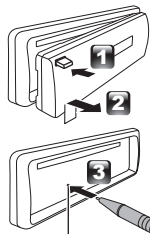
# Preparation

## How to attach/detach the faceplate



- Do not expose the faceplate to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Keep the faceplate in its casing while detached.
- The faceplate is a precision component of the unit and can be damaged by shocks or jolts.
- To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.

## How to reset your unit



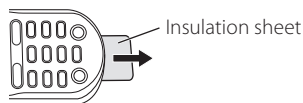
Reset button

If this unit fails to operate properly, press the reset button.

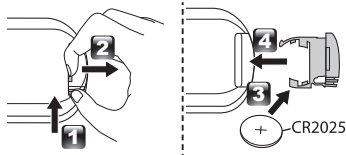
The unit returns to the factory settings when the reset button is pressed.

## How to prepare the remote controller (RC-405)

When you use the remote controller for the first time, pull out the insulation sheet.



## If the effectiveness of the remote controller decreases, replace the battery.



### ⚠ Caution:

- Do not set the remote control in hot places such as on the dashboard.
- Lithium battery.  
Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly. If swallowed, contact a physician immediately.

# Getting Started

## Canceling the display demonstration


The display demonstration is always turned on unless you cancel it.

When you turn on the power (or after you reset the unit), the display shows:




**[CANCEL DEMO] → [PRESS] → [VOLUME KNOB]**

- 1 Press the volume knob.  
[YES] is selected as the initial setup.
- 2 Press the volume knob again to confirm.  
[DEMO OFF] appears.
- If no operation is done for about 15 seconds or if you turn the volume knob to select [NO] in step 2, [DEMO MODE] appears and the display demonstration starts.



## Setting the demonstration mode

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [DEMO MODE], then press to enter.
- 3 Turn the volume knob to select [ON] or [OFF].  
If [ON] is selected, display demonstration starts if no operation is done for about 20 seconds.
- 4 Hold  to finish the procedure.

## Adjusting the clock

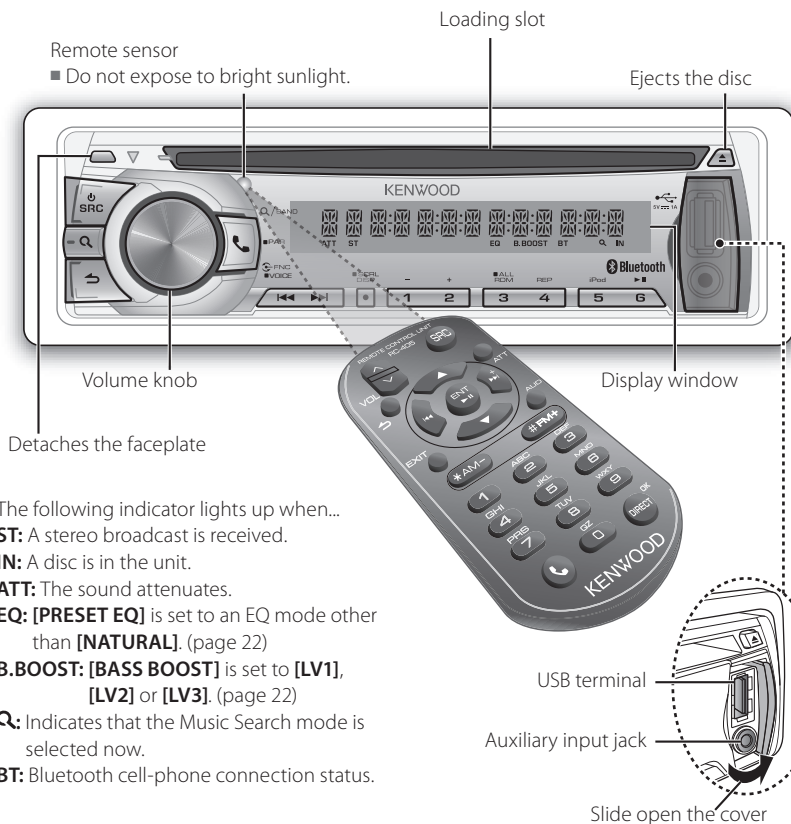
- 1 Press the volume knob to enter [FUNCTION] mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.
- 3 Turn the volume knob to select [CLOCK], then press to enter.
- 4 Turn the volume knob to select [CLOCK ADJUST], then press to enter.  
Clock hour flashes on the display.
- 5 Turn the volume knob to adjust the hour, then press to enter minute adjustment.  
Clock minutes flashes on the display.
- 6 Turn the volume knob to adjust the minute, then press to confirm.  
Press  /  to move between the hour and minute adjustment.
- 7 Hold  to finish the procedure.

## Initial settings before operations
















- 1 Press  SRC to enter [STANDBY] mode.
- 2 Press the volume knob to enter [FUNCTION] mode.
- 3 Turn the volume knob to select [INITIAL SET], then press to enter.
- 4 Turn the volume knob to make a selection, then press to confirm.  
See table below for selection.
- 5 Hold  to finish the procedure.

Item	Selectable setting (Preset: *)
PRESET TYPE	NORMAL *: Memorizes one station for each preset button in each band (FM1/ FM2/ FM3/ AM). ; MIX: Memorizes one station for each preset button regardless of the selected band (FM1/ FM2/ FM3/ AM).
KEY BEEP	ON */ OFF: Activates/deactivates the keypress tone.
TDF ALARM	ON: Activates the alarm if you forgot to detach the faceplate when ACC is set to OFF. ; OFF *: Cancels.
BUILT-IN AUX	ON *: Enables "AUX" in source selection. Sound of the connected external component is produced through the car speakers. ; OFF: Disables "AUX" in source selection.
CD READ	1 *: Automatically distinguishes between audio file disc and music CD. ; 2: Forces to play as a music CD. No sound can be heard if an audio file disc is played.
SP SELECT	OFF */ 5/4/ 6 × 9/6/ OEM: Selects the speaker size for optimum performance.
F/W UP xx.xx	YES: Starts upgrading the firmware. ; NO *: Cancels (upgrading is not activated). For details on how to update the firmware, see: <a href="http://www.kenwood.com/cs/ce/">www.kenwood.com/cs/ce/</a>

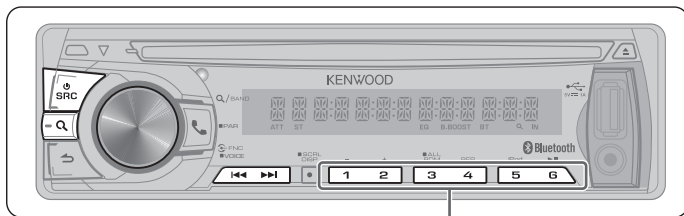
# Basic Operations



When you press or hold the following button(s)...

Main unit	Remote controller	General operation
	—	<ul style="list-style-type: none"> <li>■ Turns on.</li> <li>■ Turns off if pressed and held.</li> </ul>
	<b>SRC</b>	<p>Selects the available sources (TUNER, BT AUDIO, USB or iPod, CD, AUX, STANDBY), if the power is turned on.</p> <ul style="list-style-type: none"> <li>• If the source is ready, playback also starts.</li> <li>• "iPod" or "CD" is selectable only when an iPod is connected or a disc is loaded.</li> </ul>
Volume knob (turn)	<b>VOL</b> 	Adjusts the volume level.
		Selects items.
Volume knob (press)	<b>ENT</b> 	Confirms selection.
	—	<ul style="list-style-type: none"> <li>■ Enters <b>[FUNCTION]</b> settings.</li> <li>■ Start voice recognize of cell-phone if pressed and held.</li> </ul>
		Enters Music Search mode.
	<b>*AM- / #FM+</b>	Selects the FM bands (FM1/ FM2/ FM3) or AM when "TUNER" is selected as the source.
<b>1 (-) / 2 (+)</b>		Selects the previous/ next folder.
<b>6 (▶▶)</b>	<b>ENT</b> 	Pauses/resumes playback of a disc/ USB device/ iPod/ Bluetooth Audio.
		<ul style="list-style-type: none"> <li>■ Searches for radio station.</li> <li>■ Selects track/file.</li> <li>■ Fast-forwards/fast-backwards tracks/files if pressed and held.</li> </ul>
		
<b>SCRL DISP</b>	—	<ul style="list-style-type: none"> <li>■ Changes the display information.</li> <li>■ Scrolls the display information if pressed and held.</li> <li>■ Enters clock adjustment mode directly (page 5) if pressed and held while in clock display screen.</li> </ul>
		<ul style="list-style-type: none"> <li>■ Enters Bluetooth mode. (page 16)</li> <li>■ Press to answer an incoming call.</li> </ul>
	—	■ Enters Bluetooth pairing mode if pressed and held. (page 14)
—	<b>AUD</b>	Enters <b>[AUDIO CONTROL]</b> settings directly.
—	<b>ATT</b>	<p>Attenuates the sound.</p> <ul style="list-style-type: none"> <li>• To return to the previous level, press the button again.</li> </ul>
		Returns to the previous item.
	<b>EXIT</b>	<p>Exit from setting mode.</p> <ul style="list-style-type: none"> <li>• Press and hold  on the main unit will also exit from the setting mode.</li> </ul>

# Listening to the Radio



- Press and hold to memorize the current station.
- Press briefly to recall memorized station.

- 1 Press **SRC** to select "TUNER".
  - 2 Press **Q** repeatedly to select a band (FM1/ FM2/ FM3/ AM).
  - 3 Press **◀◀ / ▶▶** to search for a station.
- The tuning mode can be changed. Refer to <SEEK MODE> (page 8).

## Direct Access Tuning using the remote controller (RC-405)

- 1 Press **FM+ / AM-** to select a band.
  - 2 Press **DIRECT** to enter Direct Access Tuning mode.  
"----" appears.
  - 3 Press the number buttons to enter the frequency.
  - 4 Press **◀◀ / ▶▶** to search for the frequency.
- To cancel Direct Access Tuning mode, press **↶** or **EXIT**.
- If no operations is done for 10 seconds after step 3, Direct Access Tuning is automatically canceled.

## Using the remote controller (RC-405)

- #FM+ / \*AM-** : Selects band.  
**◀◀ / ▶▶** : Selects station.  
**1 - 6** : Selects preset station.

## Changing the frequency steps

You can change the frequency step of FM/ AM.

FM : 50 kHz to 200 kHz  
 AM : 9 kHz to 10 kHz

- 1 Press and hold **SRC** to turn off the power.
  - 2 While pressing number buttons **1** and **5**, press **SRC**.  
Release your fingers from the buttons after the display appears.
- To restore the initial setting, repeat the same procedure.
- When the frequency step is changed, the frequencies in the memory are deleted.

## Adjust [SETTINGS] mode settings

While listening to the radio...

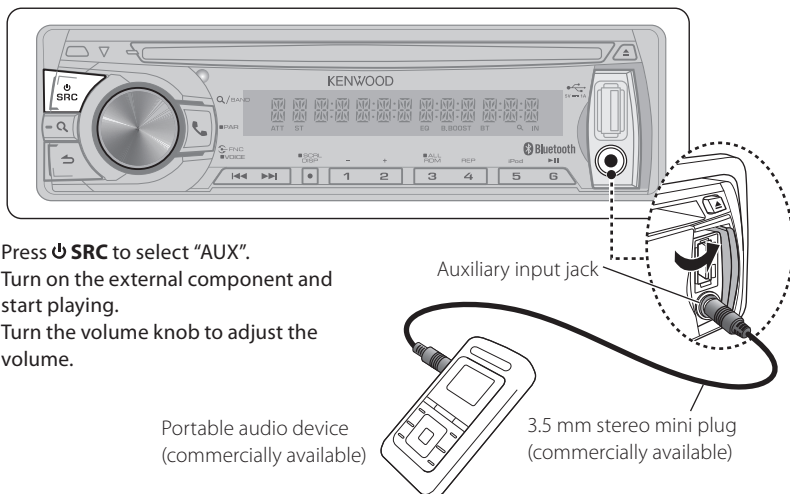
- 1 Press the volume knob to enter **[FUNCTION]** mode.
- 2 Turn the volume knob to select **[SETTINGS]**, then press to enter.
- 3 Turn the volume knob to make a selection, then press to confirm.  
See table below for selection.
- 4 Hold **↶** to finish the procedure.

Item	Selectable setting (Preset: *)
SEEK MODE	AUTO1 *: Automatically search for a station. ; AUTO2: Search in the order of the stations in the preset memory. ; MANUAL: Manually search for a station.
AUTO MEMORY	YES: Automatically starts memorizing 6 stations with good reception. ; NO *: Cancels (automatic memorizing is not activated). (Selectable only if [NORMAL] is selected for [PRESET TYPE].) (page 5)
MONO SET	ON: Improves the FM reception (but the stereo effect may be lost). ; OFF *: Cancels (stereo effect resumes).

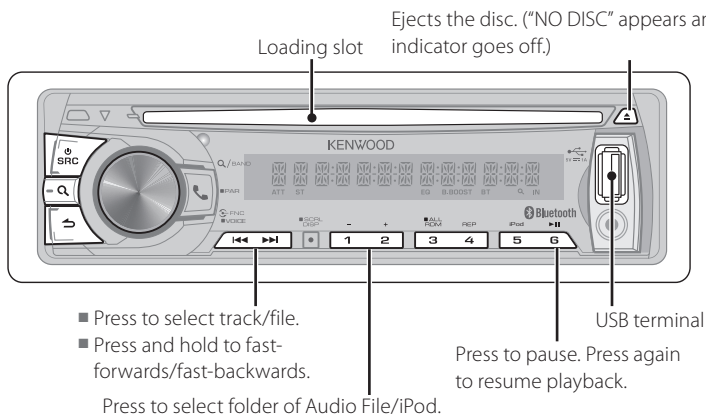


# Listening to the other external components

**Preparation :** Make sure [ON] is selected for [BUILT-IN AUX]. (page 5)



# Listening to a Disc/ USB device/ iPod



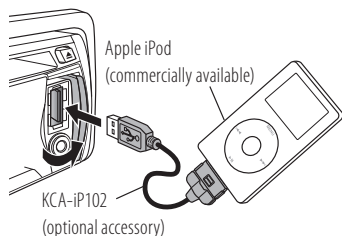
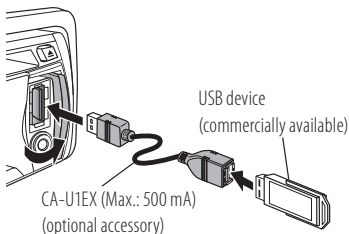
## Start playing a disc

- 1 Press **SRC** to turn on the power.
- 2 Insert a disc into the loading slot.  
Playback starts automatically.

## Start playing a USB device or iPod

- 1 Press **SRC** to turn on the power.
- 2 Slide open the cover.
- 3 Connect a USB device or iPod to the USB terminal.

The source automatically switches, and playback starts.



## Removing the USB device or iPod

- 1 Press **SRC** to select a source other than "USB" or "iPod".
- 2 Remove the USB device or iPod.

## Selecting Repeat Play

Press number button **4 (REP)** repeatedly to make a selection.

Audio CD : TRACK REPEAT, REPEAT OFF

Audio File :

FILE REPEAT, FOLDER REPEAT, REPEAT OFF

iPod :

FILE REPEAT, REPEAT OFF

## Selecting Random Play

Press number button **3 (ALL RDM)** repeatedly to make a selection.

Audio CD : DISC RANDOM, RANDOM OFF

Audio File/ iPod :

FOLDER RANDOM, RANDOM OFF

## All Random Play

Press and hold number button **3 (ALL RDM)**.

Pressing this button again plays songs in the normal mode starting.

Audio File/ iPod :

ALL RANDOM, RANDOM OFF

- Changes the iPod browsing item to "songs".

## Selecting a folder/track/file

- 1 Press **Q** to enter Music Search mode.

"SEARCH" appears, then the current file name appears on the display.

- 2 Turn the volume knob to select a folder/ track/ file, then press to confirm.

- To skip songs, press **◀◀ / ▶▶**. Holding **◀◀ / ▶▶** skips songs at 10% regardless of the setting made. (page 12)

This operation is effective only for the iPod or KENWOOD Music Editor media.

- To return to the root folder (audio file), top menu (iPod) or first track (audio CD), press **5**.
- To return to the previous folder, press **↶**.
- To cancel the Music Search mode, press and hold **↶**.
- < or > on the display indicates that preceded/next item is available.

## Alphabet Search for iPod

- 1 Press **Q** to enter Music Search mode.

"SEARCH" appears.

- 2 Turn the volume knob to select a category, then press to confirm.

- 3 Press **Q** again to enter alphabet search mode.

"SEARCH <\_ >" appears.

- 4 Turn the volume knob to select the character to be searched for.

- 5 Press **◀◀ / ▶▶** to move to the entry position.

You can enter up to three characters.

- 6 Press the volume knob to start searching.

After this step, see step 2 of <Selecting a folder/track/file> (page 11) to select a song.

- To return to the Music Search mode, press **↶**.
- To cancel the Music Search mode, press and hold **↶**.
- A longer searching time is required if there are many songs or playlists in the iPod.
- To search for a character other than A to Z and 0 to 9, enter only " \* ".
- The article (a, an, the) of songs name will be skipped during search.

## Direct Music Search using the remote controller (RC-405)

- Not available if Random Play, KENWOOD Music Editor media, iPod playback is selected.

- 1 Press **DIRECT** to enter Direct Music Search mode.

"- - -" appears.

- 2 Press the number buttons to enter the track number.

- 3 Press **◀◀ / +▶▶** to search for the music.

- To cancel the Direct Music Search mode, press **↶** or **EXIT**.

## Using the remote controller (RC-405)

**In playback mode:**

**#FM+ / \*AM-** : Selects folder.

**◀◀ / +▶▶** : Selects track/file.

**ENT ▶ II** : Pauses/resumes playback.

**▲ / ▼** : Enter Music Search mode.

**In Music Search mode:**

**ENT ▶ II** : Confirms selection.

**▲ / ▼** : Selects folder/file/track.

**↶** : Returns to the previous folder.

## Selecting App & iPod Control Mode

Press number button **5 (iPod)** repeatedly to make a selection.

MODE ON :

Control iPod from the iPod \*. "APP&iPod MODE" appears on the display.

MODE OFF: Control iPod from the unit.

\* You can still control play/pause, select files, fast-forward/reverse files from the unit.

## Adjust [SETTINGS] mode settings

While listening to an iPod or KENWOOD Music Editor media ...

- 1 Press the volume knob to enter [FUNCTION] mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.

3 Turn the volume knob to select [SKIP SEARCH], then press to enter.

4 Turn the volume knob to make a selection, then press to confirm.

**0.5% (initial)/ 1%/ 5%/ 10%** : Sets the ratio of skip when searching for a song in Music Search mode.

(Holding ◀◀ / ▶▶ skips songs at 10% regardless of the setting made.)

5 Hold ⏏ to finish the procedure.

### Handling discs

- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use any accessories for the disc.
- Clean the disk by moving the cloth outward from the center of the disc.
- Clean the disc with a dry silicon or soft cloth. Do not use any solvents.
- When removing a disc from this unit, pull it out horizontally.
- If the center hole or outside rim of a disc has burrs, remove them before inserting a disc.

### Discs that cannot be used

- This unit can only play the CDs with:



- A disc that is not round.
- A disc with coloring on the recording surface or a disc that is dirty.
- You cannot play a Recordable/ReWritable

disc that has not been finalized. (For the finalization process, refer to the instruction manual that came with your disc writing software or your disc recorder.)

- 3-inch CD cannot be used. An attempt to insert using an adapter can cause malfunction.

### About the Audio file

- Playable Audio files:  
MP3 (.mp3), WMA (.wma)
- Playable disc media: CD-R/RW/ROM
- Playable disc file formats: ISO 9660 Level 1/2, Joliet, Romeo, Long file name.
- Playable USB devices:  
USB mass storage class
- Playable USB device file systems:  
FAT16, FAT32

Although the audio files are complied with the standards listed above, the play maybe impossible depending on the types or conditions of media or device.

- Detailed information and notes about the playable audio files are stated in an online manual on the following site:  
[www.kenwood.com/cs/ce/audiofile/](http://www.kenwood.com/cs/ce/audiofile/)

### About the USB device

- This unit can play audio files stored on a USB mass storage class device.
- Install the USB device in the place where it will not prevent you from driving your vehicle properly.
- You cannot connect a USB device via a USB hub or multi card reader.
- Make sure all important data has been backed up to avoid losing the data.
- Connecting a cable whose total length is longer than 5 m can result in abnormal playback.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- When connecting the USB device, use of the CA-U1EX (option) is recommended. The maximum current consumption of the CA-U1EX is 500 mA.

### About compatible iPod/iPhone

Made for

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

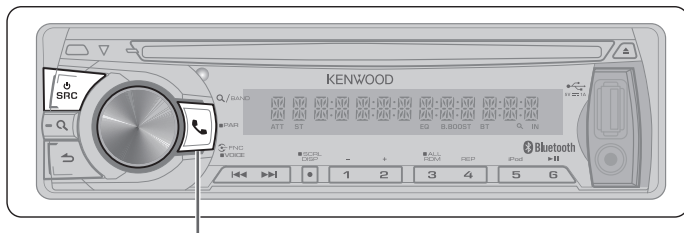
*(As of January 2012)*

- Latest compatible list of iPod/iPhone. For details, see: [www.kenwood.com/cs/ce/ipod](http://www.kenwood.com/cs/ce/ipod)
- Types of available control vary depending on the type of connected iPod. For details, see above URL.
- The word "iPod" appearing in this manual indicates the iPod or iPhone connected to this unit with a connection cable, KCA-iP102 (optional accessory).
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first. In this case, "RESUMING" is displayed without displaying a folder name, etc. Changing the browse item will display a correct title, etc.
- You cannot operate the iPod if "KENWOOD" or "✓" displayed on the iPod.

### About "KENWOOD Music Editor"

- This unit supports the PC application "KENWOOD Music Editor Light ver1.1" or later.
- When you use the audio file with database information added by the "KENWOOD Music Editor Light ver1.1", you can search for a file by title, album or artist name using the function mentioned in Music Search (page 11).
- In the Instruction manual, the term "Music Editor media" is used to mean the device that contains audio files with database information added with KENWOOD Music Editor.
- "KENWOOD Music Editor Light ver1.1" is available from the following web site: [www.kenwood.com/cs/ce/](http://www.kenwood.com/cs/ce/)
- For further information on "KENWOOD Music Editor Light ver1.1", refer to the site above or the application help.

# Getting Started of Bluetooth



Press and hold to pairing mode.

## Registering your Bluetooth device with this unit (Pairing)

- 1 Press and hold to enter pairing mode "PAIRING" is displayed.
  - Any of the following is displayed depending on Bluetooth device registration condition:
    - "PLEASE PAIR YOUR PHONE": When registering a Bluetooth device for the first time.
    - "(device name)": When a Bluetooth device has already been registered.
    - "DEVICE FULL": When a maximum of five Bluetooth devices have already been registered.
  - To cancel the pairing mode, press .

### When registering a Bluetooth device for the first time (Registering a Bluetooth device)

- 2 "PLEASE PAIR YOUR PHONE" is displayed.
- 3 Start registering this unit by operating the Bluetooth device.

By operating the Bluetooth device, register the hands-free unit or audio unit (pairing). Select "KENWOOD BT CD/R-5T1" from the list of found units.
- 4 Input the PIN code ("0000") in the Bluetooth device.


Check that registration is complete on the Bluetooth device. PIN code is set to "0000" as the default. You can change this

code. Refer to [PIN CODE EDIT] under <Bluetooth Setup> (page 21).


- 5 "(device name)" is displayed. Press the volume knob.
- 6 The receiver is connected to a Bluetooth device, with "HF CONNECT" or "AUD CONNECT" displayed, and exits the pairing mode.
  - If an error code is displayed during pairing, see <Troubleshooting> (page 28).

### When a Bluetooth device has already been registered, or maximum of five Bluetooth devices have already been registered (Selecting a Bluetooth device)


- 2 "(device name)" or "DEVICE FULL" is displayed.
- 3 Turn the volume knob to select a Bluetooth device name.
  - To register a new Bluetooth device, select "[PAIRING]", then go to "When registering a Bluetooth device for the first time."
- 4 Press the volume knob.
- 5 Turn the volume knob to select the profile for the device to connect.
  - "HANDSFREE"/ "AUDIO": The device can be connected using either a hands-free or audio profile.
  - "HF/AUD": The device is can be connected using both hands-free and audio profiles.

- 6 Press the volume knob to set up the Bluetooth device.
  - “\*H\*A (device name)”: The selected Bluetooth device is busy.
  - “-H-A (device name)”: The selected Bluetooth device is on standby.
  - “(blank) (device name)”: The Bluetooth device is deselected.
  - If two cell-phones or an audio player have already been selected, deselect one device before selecting a new Bluetooth device.
  - “H” (HFP) or “A” (A2DP) indicates the corresponding profile.
- 7 Press  to exit pairing mode.

#### **Deleting the registered Bluetooth device**

- 2 “(device name)” or “DEVICE FULL” is displayed.
- 3 Turn the volume knob to select a Bluetooth device name.
- 4 Press and hold the volume knob to delete the selected cell-phone.  
“DELETE” is displayed.
- 5 Turn the volume knob to select “YES”, then press to confirm.  
“COMPLETED” is displayed.
- 6 Press  to exit easy pairing mode.

## **Registering from Bluetooth devices (Pairing)**

- 1 Press  SRC to turn on the power.
- 2 Start registering this unit by operating the Bluetooth device.  
By operating the Bluetooth device, register the hands-free unit or audio unit (pairing). Select “KENWOOD BT CD/R-ST1” from the list of found units.
- 3 Input the PIN code (“0000”) in the Bluetooth device.  
Check that registration is complete on the Bluetooth device. PIN code is set to “0000” as the default. You can change this code. Refer to [PIN CODE EDIT] under <Bluetooth Setup> (page 21).
- 4 By operating the Bluetooth device, start hands-free connection.
  - If there are 5 or more Bluetooth devices registered, you cannot register a new Bluetooth device.

#### **About the Cell-Phone**

- Version: Bluetooth Standard Ver. 2.1+EDR
- Profile:
  - HFP (Hands Free Profile)
  - SPP (Serial Port Profile)
  - OPP (Object Push Profile)
  - PBAP (Phone book Access Profile)
  - A2DP (Advanced Audio Distribution Profile)
  - AVRCP (Audio/Video Remote Control Profile)

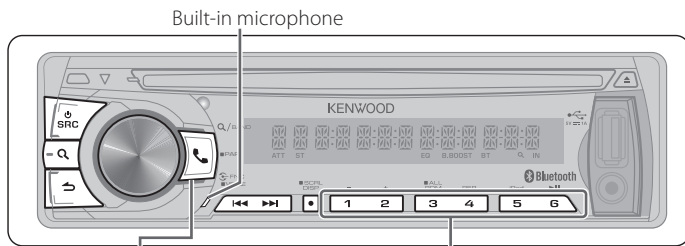
For the cell-phones verified for compatibility, access the following URL:

[www.kenwood.com/cs/ce/bt/](http://www.kenwood.com/cs/ce/bt/)

- The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG. However, it may be impossible for such units to communicate with your cell-phone depending on its type.

# Operation of Hands-Free Phoning

**Preparation :** You need to register your cell-phone before using it with this unit. (page 14)



- Press to enter Bluetooth mode.
- Press to answer an incoming call.
- Press and hold to memorize the current phone number.
- Press briefly to recall memorized phone number.

## Making a Call

**1** Press to enter Bluetooth mode.

**2** Turn the volume knob to select a dialing method, then press to enter.

- Operation method of each mode is described below.
  - “PHONE BOOK”: Calling a Number in the Phone Book
  - “OUTGOING”/ “INCOMING”/ “MISSED CALLS”: Calling a Number in the Call Log
  - “NUMBER DIAL”: Dialing a Number
  - Speed Dialing (Preset Dial)
  - “DVC PRIORITY”: Displays the main and sub cell-phones. Turn the volume knob to switch between the main and sub cell-phones displayed.

- Switches between name and phone number, press **DISP**.
- To return to the Bluetooth mode, press and hold .
- To cancel the Bluetooth mode, press .

## Calling a Number in the Phone Book

**2** Turn the volume knob to select “PHONE BOOK”, then press to enter.

**3** Press to enter alphabet search mode.

**4** Turn the volume knob to select the character to be searched for.

- To move to the next row, press / .

- To return to the Phone Book mode, press .

**5** Press the volume knob to start searching.

**6** Turn the volume knob to select a name and category.

- To move to the next character, press / .

**7** Press the volume knob to make a call.

- To use the Phone Book, it must be downloaded to this unit in advance. Refer to <Downloading the Phone Book> (page 18).
- During search, a non-accent character such as “u” is searched for instead of an accent character such as “ü”.
- If “TRANSFER PB” is displayed, download the Phone Book.
  1. “DL PB MODE” is displayed.
  2. By operating the cell-phone, send the phone book data to this unit
  3. When downloading is completed, return to Phone Book operation.
    - To cancel the download mode, press .
- If the Phone Book is downloaded manually, its entries can be deleted.
  1. Press and hold the volume knob in step 6.
  2. Turn the volume knob.
    - Deleting one entry : “DELETE ONE” is displayed.



- Deleting all entries : “DELETE ALL” is displayed. Press the volume knob. Turn the volume knob to select “YES”, then press to confirm.
- 3. Press the volume knob. “COMPLETE” is displayed.
- 4. Press the volume knob to return to Phone Book operation.

### **Calling a Number in the Call Log**

- 2 Turn the volume knob to select the “OUTGOING” (outgoing call), “INCOMING” (incoming call), or “MISSED CALLS” (missed call), then press to enter.
- 3 Turn the volume knob to select a name or phone number.
- 4 Press the volume knob to make a call.
  - If your cell-phone cannot download the Phone Book automatically, the outgoing call log, incoming call log, and missed call log contain only the calls dialed from or received by this unit.

### **Dialing a Number**

- 2 Turn the volume knob to select “NUMBER DIAL”, then press to enter.
- 3 Turn the volume knob to select the phone number
  - To move to the next digit, press ►►.
  - To delete the last digit, press ◀◀.
  - Press number button (1 – 0), # (FM+), \*(AM-), or +(►►) on the remote controller.
- 4 Press the volume knob to make a call.
  - Press OK on the remote controller.
  - You can input max 32 digits.

### **Speed Dialing (Preset Dial)**

- 2 Press number button (1 – 6).
- 3 Press the volume knob to make a call.

### **Registering in the preset dial number list**

- 2 Enter the phone number with reference to the following:  
Dialing a Number/ Calling a number in the call log/ Calling a number in the Phone Book

- 3 Press and hold number button (1 – 6).


### **Make a Voice Dialing Call**

You can make a voice call using the voice recognition function of your cell-phone.

- 1 Press and hold the volume knob to start voice recognize.  
“VOICE TAG” is displayed.
- 2 Pronounce the name registered in the cell-phone.  
Make a call.
  - To cancel the voice recognize, press and hold the volume knob.
  - If “NO SUPPORT” is displayed, your cell-phone does not support the voice recognition function.
  - If “N/A VOICE TAG” is displayed, your cell-phone cannot start voice recognition.
  - If your voice cannot be recognized, a message is displayed. Press and hold the volume knob to terminate voice recognition. Retry it again from the beginning.
  - Audio sound is not output during voice recognition.


### **Receiving a Call**

#### **Answering a Phone Call**

Press  or the volume knob.

- The following operations disconnect the line: Insert a CD. Connect a USB device.
- The name of the calling party is displayed if it has already been registered in the Phone Book.

#### **Rejecting an Incoming Call**

Press  SRC.

### **During a Call**

#### **Disconnecting a Call**

Press  or  SRC.

#### **Switching to the Private Mode**

Press number button 6 to switches between Private talk (“PRIVATE TALK”) and Hands-free talk (“HANDS FREE”).

#### **Adjusting the Voice Volume during a Call**

Turn the volume knob.

*Continued to next page*

## Switching between Two Connected Cell-phones

**1** Press  to enter Bluetooth mode.

**2** Press and hold .

- You cannot switch between the connected cell-phones during downloading of the Phone Book.
- Only the main cell-phone from which you can make a call.
- Both the main and sub cell-phones can receive an incoming call.
- If the other cell-phone receives an incoming call while you are talking on the active cell-phone, you must finish the current call to answer the incoming call to the other cell-phone.
- If the main cell-phone is disconnected when it is taken out of the vehicle, the sub cell-phone becomes the main cell-phone if it is held connected. When the disconnected cell-phone is brought back into the vehicle, it is reconnected as the sub cell-phone.

## Clearing the disconnection message

Press  to "HF DISCONCT" disappears.

## Downloading the Phone Book

### To download automatically

If the cell-phone supports a phone book synchronization function, the phone book is downloaded automatically after Bluetooth connection.

- Setting on the cell-phone may be required.
- Up to 1000 phone numbers can be registered for each registered cell-phone.
- Up to 32 digits can be registered for each phone number along with up to 20\* characters representing a name.  
(\* 20: Number of alphabetical characters. Fewer characters can be input depending on the type of characters.)
- If no phone book data is found in the unit even after the compete display, your cell-phone may not support a phone book data automatic downloading function. In this case, try downloading manually.

### To download from the cell-phone manually

Use this procedure when your cell-phone does not support the Phone Book Access Property (PBAP).

**1** Press  to enter Bluetooth mode.

**2** Turn the volume knob to select [SETTINGS], then press to enter.

**3** Turn the volume knob to select [TRANSFER PB], then press to enter.  
"DL PB \*\*\*" is displayed.

**4** By operating the cell-phone, send the phone book data to this unit

By operating the cell-phone, download the phone book data to this unit.

**5** When downloading is completed, press the volume knob.

- The manually downloaded phone book data can contain up to 400 phone numbers.
- When you switch between the connected cell-phones, the manually downloaded phone book data is deleted.
- To cancel downloading of the phone book data, operate the cell-phone.

## Using the remote controller (RC-405)

### Making a call:

 : Enter Bluetooth mode.

▲ / ▼ : Selects a dialing method.

ENT ► II : Enter dialing mode

DIRECT : Make a call

1 — 6 : Selects preset dial.

0 — 9 : Input a digit in number dial mode.

#FM+ : Input "#" in number dial mode.

\*AM- : Input "\*" in number dial mode.

+►►I : Input "+" in number dial mode.

I◀◀ : Clear the entered phone number.

### Receiving a call:

 : Answer the call.

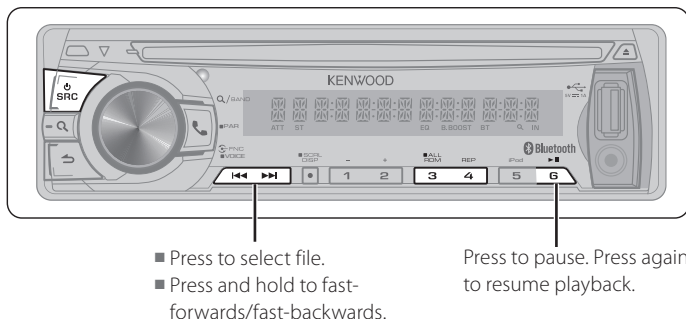
### During a call:

SRC : End the call.

ENT ► II : Switch between the private talk mode and the hands-free talk mode.

# Listening to a Bluetooth Audio

**Preparation :** You need to register your audio player before using it with this unit. (page 14)



**1** Press **SRC** to select "BT AUDIO".

**2** Press **◀◀ / ▶▶** to select a file.

- Bluetooth audio players that do not support AVRCP (Audio/Video Remote Control Profile) cannot be used with this unit. Operate from the audio player.
- Some functions cannot be operated from the Bluetooth audio player.
- Speakers from which audio is output change depending on the Bluetooth setting "BT HF/AUDIO". The default is Front. (page 21)

## Selecting Repeat Play

Press number button **4 (REP)** repeatedly to make a selection.

FILE REPEAT, REPEAT OFF

## Selecting Random Play

Press number button **3 (ALL RDM)** repeatedly to make a selection.

RANDOM ON, RANDOM OFF


# Bluetooth Setup

## Selecting the Bluetooth Device

- 1 Press  to enter Bluetooth mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.
- 3 Turn the volume knob to select [PAIRING], then press to enter.
- 4 Turn the volume knob to select [PHONE SELECT] or [AUDIO SELECT], then press to enter.
- 5 Turn the volume knob to select a Bluetooth device name.
- 6 Press the volume knob to set up the Bluetooth device.
  - "\*" (device name): The selected Bluetooth device is busy.
  - "-" (device name): The selected Bluetooth device is on standby.
  - "(blank) (device name)": The Bluetooth device is deselected.
  - If two cell-phones or an audio player have already been selected, deselect one device before selecting a new Bluetooth device.
- 7 Hold  to finish the procedure.
  - To cancel the Bluetooth mode, press .

## Bluetooth Device Registration Test

You can check whether your Bluetooth device can be registered using this unit.

- 1 Press and hold  to enter pairing mode  
"PAIRING" is displayed.
- 2 "PLEASE PAIR YOUR PHONE" is displayed.
  - When "(device name)" is displayed, select "[PAIRING]" and press the control knob.
  - When "DEVICE FULL" is displayed, delete a Bluetooth device and retry.
    1. Turn the volume knob to select the Bluetooth device, then press and hold to confirm.
    2. Turn the volume knob to select "YES", then press to confirm.

- 3 Start registering this unit by operating the Bluetooth device.

By operating the Bluetooth device, register the hands-free unit or audio unit (pairing). Select "KENWOOD BT CD/R-5T1" from the list of found units.

- 4 Input the PIN code ("0000") in the Bluetooth device.

Check that registration is complete on the Bluetooth device. PIN code is set to "0000" as the default. You can change this code. Refer to [PIN CODE EDIT] under <Bluetooth Setup> (page 21).

- 5 "(device name)" is displayed. Press and hold the volume knob.

"BT TEST" is displayed.





- 6 The connection result, "OK" or "NG", is displayed.

- "PAIRING": Registration to this unit
- "HF CNT": Hands-free phoning
- "AUD CNT": Audio playback
- "PB DL": Phone Book downloading

- 7 Press  to exit pairing mode.

- Data (Phone Book, etc.) of the cell-phone checked for connection does not remain in this unit.

## Bluetooth Setup

- 1 Press  to enter Bluetooth mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.
- 3 Turn the volume knob to make a selection, then press to confirm.
  - See table below for selection.
  - Repeat step 3 until the desired item is selected/activated.
  - Press  to return to the previous item.
- 4 Hold  to finish the procedure.
  - To cancel the Bluetooth mode, press .

Item	Selectable setting (Preset: *)
<b>PAIRING</b>	
<b>PHONE SELECT</b>	Selects a cell-phone connection. (For details, see page 20.)
<b>AUDIO SELECT</b>	Selects a Bluetooth audio player connection. (For details, see page 20.)
<b>DEVICE DELETE</b>	Cancel registration of the Bluetooth device. 1. Turn the volume knob to select the Bluetooth device, then press to confirm. 2. Turn the volume knob to select "YES", then press to confirm. "DELETE" is displayed.
<b>TRANSFER PB</b>	(For details, see page 18.)
<b>DETAILED SET</b>	
<b>PIN CODE EDIT</b>	Specify the PIN code required when registering this unit using the Bluetooth device. By default, "0000" is specified. 1. Turn the volume knob to select the number. ■ To move to the next digit, press ►►. ■ To delete the last digit, press ◀◀. 2. Press the volume knob to register a PIN code. "COMPLETED" is displayed.
<b>AUTO ANSWER</b>	<b>OFF</b> : Does not answer the phone call automatically. ; <b>0</b> : Automatically answers the phone call at once. ; <b>1 – 8 * –99</b> : Automatically answers the phone call after lapse of 1 – 99 seconds.
<b>RECONNECT</b>	<b>ON *</b> : Automatically reconnects the selected Bluetooth device when radio wave becomes strong enough, even after it is disconnected. ; <b>OFF</b> : Cancels. ■ When this function is turned ON, the Bluetooth device is reconnected if it has been disconnected by selecting [PHONE SELECT]/ [AUDIO SELECT].
<b>BT HF/AUDIO</b>	<b>FRONT *</b> : Outputs audio from the front-left and front-right speakers. ; <b>ALL</b> : Outputs audio from the all speakers.
<b>CALL BEEP</b>	<b>ON *</b> : Sets whether to output a beep from the speaker when a call comes in. ; <b>OFF</b> : Cancels.
<b>BT F/W UPDATE</b>	Display the firmware version and update the firmware.
<b>MIC GAIN</b>	<b>1 — 8 * — 15</b> : Adjust the sensitivity of the microphone for telephone call or adjusts the voice of the caller.

# Function settings

- 1 Press **SRC** to select a source other than "STANDBY".
- 2 Press the volume knob to enter **[FUNCTION]** mode.
- 3 Turn the volume knob to select **[AUDIO CONTROL]** or **[SETTINGS]**, then press to enter.
- 4 Turn the volume knob to make a selection, then press to confirm.
  - See table below for selection.
  - Repeat step 4 until the desired item is selected/activated.
  - Press **↶** to return to the previous item.
- 5 Hold **↶** to finish the procedure.

**[AUDIO CONTROL]** : While listening to any source except in STANDBY state or Bluetooth mode.

Item	Selectable setting (Preset: *)	
SUB-W LEVEL	-15 — 0 * — +15: Adjusts the subwoofer output level.	
BASS LEVEL	-8 — 0 * — +8: Source tone memory: Adjusts the level to memorize in each source. (Before making an adjustment, select the source you want to adjust.)	
MID LEVEL		
TRE LEVEL		
EQ PRO		
BASS ADJUST	BASS CTR FRQ	60/ 80/ 100 */ 200: Selects the center frequency.
	BASS LEVEL	-8 — 0 — +8 *: Adjusts the level.
	BASS Q FACTOR	1.00 */ 1.25/ 1.50/ 2.00: Adjusts the quality factor.
	BASS EXTEND	ON *: Turns on the extended bass. ; OFF: Cancels.
MID ADJUST	MID CTR FRQ	0.5K/ 1.0K/ 1.5K/ 2.5K *: Selects the center frequency.
	MID LEVEL	-8 — +2 * — +8: Adjusts the level.
	MID Q FACTOR	0.75/ 1.00 */ 1.25: Adjusts the quality factor.
TRE ADJUST	TRE CTR FRQ	10.0K/ 12.5K */ 15.0K/ 17.5K: Selects the center frequency.
	TRE LEVEL	-8 — +3 * — +8: Adjusts the level.
PRESET EQ	NATURAL/ USER/ ROCK/ POPS/ EASY/ TOP40/ JAZZ/ POWERFUL *: Selects a preset sound mode suitable to the music genre. (Selects [USER] to use the customized bass, middle, and treble settings.)	
BASS BOOST	B.BOOST LV1 */ B.BOOST LV2/ B.BOOST LV3: Selects your preferred bass boost level. ; OFF: Cancels.	
LOUDNESS	LOUDNESS LV1/ LOUDNESS LV2: Selects your preferred low and high frequencies boost to produce a well-balanced sound at a low volume level. ; OFF *: Cancels.	
BALANCE	L15 — 0 * — R15: Adjusts the left and right speaker output balance.	
FADER	R15 — 0 * — F15: Adjusts the rear and front speaker output balance.	
SUBWOOFER SET	ON *: Turns on the subwoofer output. ; OFF: Cancels.	
DETAILED SET		
HPF	THROUGH *: All signals are sent to the front speaker. ; 100/ 120/ 150 (HZ): Frequencies lower than the specified value are cut off.	
LPF	THROUGH *: All signals are sent to the subwoofer. ; 85/ 120/ 160 (HZ): Frequencies higher than the specified value are cut off.	
SUBWOOFER		
SUB-W PHASE	REVERSE (180°)/ NORMAL (0°) *: Selects the phase angle of the subwoofer output to be in line with the speaker output for optimum performance. (Selectable only if a setting other than [THROUGH] is selected for [LPF SUBWOOFER].)	

Item	Selectable setting (Preset: *)
SUPREME SET	<b>ON *</b> : Creates realistic sound by interpolating the high-frequency components that are lost in MP3/ WMA audio compression. ; <b>OFF</b> : Cancels. (Selectable only when playback an MP3/ WMA disc or a USB device, except iPod.) (Selectable only if "CD"/ "USB" is selected as the source.)
VOLUME OFFSET	<b>-8 — 0 * — +8</b> (for AUX) ; <b>-8 — 0 *</b> (for other sources): Presets the volume adjustment level of each source. The volume level will automatically increase or decrease when you change the source. (Before making an adjustment, select the source you want to adjust.)

- Select a source before making a source tone memory adjustment, [EQ PRO].
- [SUB-W LEVEL/ LPF SUBWOOFER/ SUB-W PHASE] is selectable only if [SUBWOOFER SET] is set to [ON].

## [SETTINGS]

Item	Selectable setting (Preset: *)
AUX NAME SET	<b>AUX */ TV/ VIDEO/ GAME/ PORTABLE/ DVD</b> : Selects the desired name for the connected component. (Selectable only if "AUX" is selected as the source.)
CLOCK	
CLOCK ADJUST	(For details, see page 5.)
DISPLAY	
DISP DIMMER	<b>ON</b> : Dims the display illumination. ; <b>OFF *</b> : Cancels.
TEXT SCROLL	<b>AUTO */ ONCE</b> : Selects to scroll the display information automatically, or scroll only once. ; <b>OFF</b> : Cancels.
BT DVC STATUS	You can display the connection status, signal strength, and battery level of Bluetooth device. <b>HF-CON</b> : Connection status for cell-phone. ; <b>AD-CON</b> : Connection status for BT Audio. ; <b>BATT</b> : Battery level of cell-phone. ; <b>SIGNAL</b> : Signal strength of cell-phone.

# Installation/connection

## Part list:

- Ⓐ Faceplate .....(x1)
- Ⓑ Escutcheon .....(x1)
- Ⓒ Mounting sleeve.....(x1)
- Ⓓ Wiring harness.....(x1)
- Ⓔ Removal tool.....(x2)
- Ⓕ Flat head screw (for Nissan cars).....(x4)
- Ⓖ Round head screw (for Toyota cars).....(x4)

## Basic procedure

- 1 Remove the key from the ignition switch, then disconnect the  $\ominus$  terminal of the car battery.
- 2 Make proper input and output wire connections.  
→ <Wiring connection> (page 26)
- 3 Install the unit to your car.  
→ <Installing the unit> (page 27)
- 4 Reconnect the  $\ominus$  terminal of the car battery.
- 5 Reset the unit. (page 4)

## ⚠Warning

- The unit can only be installed in a car with a 12 V DC power supply, negative ground.
- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Disconnect the battery's negative terminal and make all electrical connections before installing the unit.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Be sure to ground this unit to the car's chassis again after mounting.

- If the power is not turned ON ("PROTECT" is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.

## ⚠Caution

- If your car's ignition key switch does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wires to a constant-voltage power source, as with battery wires, the battery may die.
- Do not use your own screws. Use only the screws provided.
- Install this unit in the console of your vehicle. Make sure the faceplate will not hit the lid of the console (if any) when closing and opening.
- After the installing the unit, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- If the fuse blows, first make sure the wires are not touching other parts to cause a short circuit, and then replace the old fuse with one with a new the same rating.
- Connect the speaker wires correctly to the corresponding terminals. The unit may be damaged or fail to work if you share the  $\ominus$  wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear).



- Mounting and wiring this product requires skills and experience. For safety's sake, leave this work to professionals.  
If you experience problems during installation, consult your Kenwood dealer.
- Reception may become poor if there are metal objects near the Bluetooth antenna.



Bluetooth antenna unit

## For Good Reception

To assure good reception, note the following:

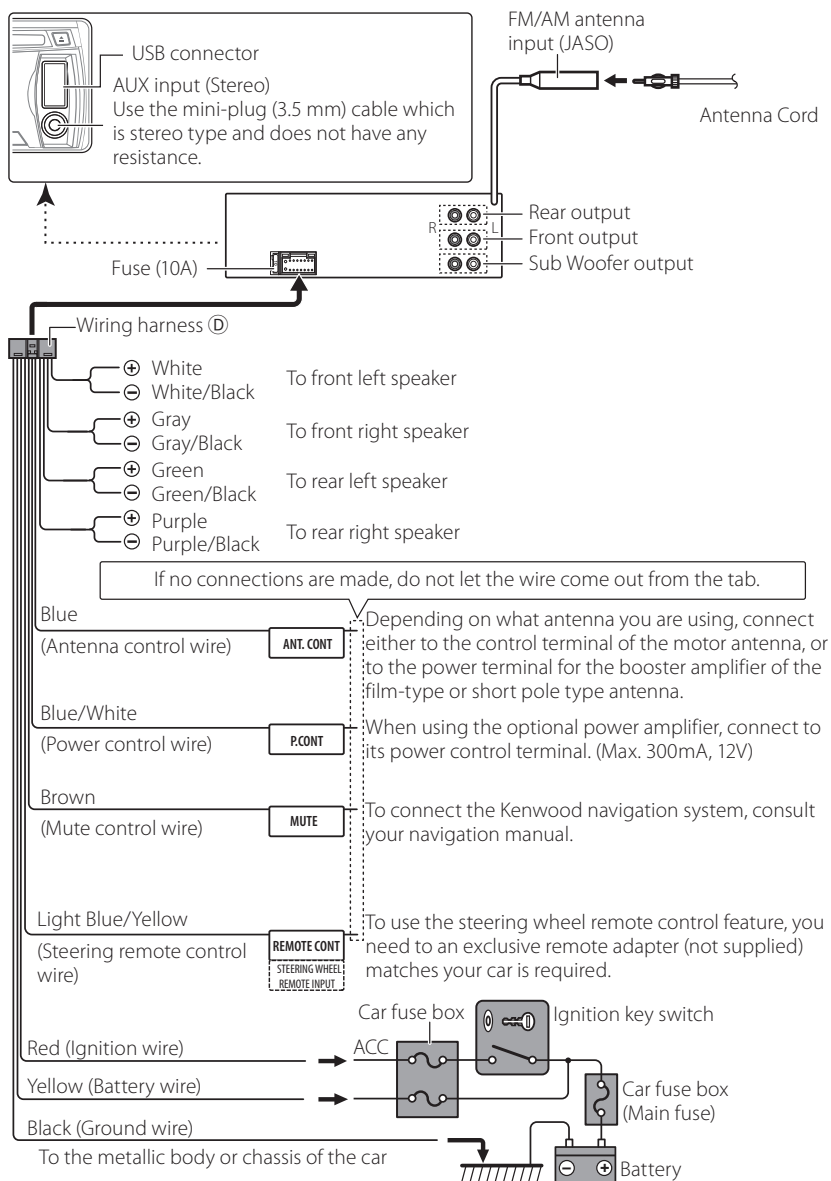
- Communicate with the cell-phone within the line-of-sight distance of 10 m (30 ft). The communication range becomes shorter depending on the surrounding environment. The communication range also becomes shorter when there is an obstacle between this unit and the cell-phone. The above maximum communication range (10 m) is not always assured.
- A broadcast station or walkie-talkie located nearby can interfere with communication due to a too strong signal.

### **CAUTION**

Install this unit in the console of your vehicle.

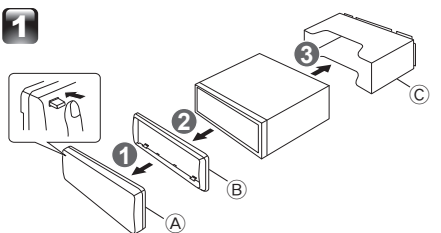
Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

## Wiring connection



## Installing the unit

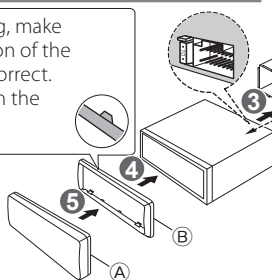
**1**



Connect the wiring harness to the unit. Other wiring connection has been completed earlier. (page 26)

**2**

Before attaching, make sure the direction of the escutcheon is correct. (Wider hooks on the bottom side.)



D

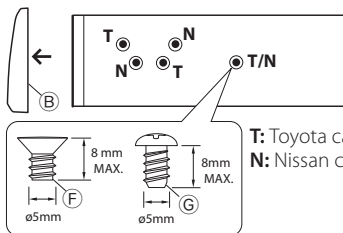
2

Dashboard of your car

Bend the appropriate tabs to hold the mounting sleeve firmly in place.

## Installing without using the mounting sleeve (Japanese car)

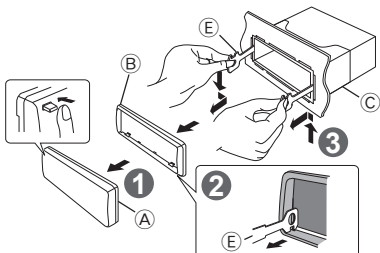
- 1 Remove the mounting sleeve and escutcheon (B) from the unit.
- 2 Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with the supplied screws.



T: Toyota cars  
N: Nissan cars

## Removing the unit

- 1 Detach the faceplate (A).
- 2 Engage the catch pin on the removal tools (E) into the holes on both sides of the escutcheon (B), then pull it out.
- 3 Insert the removal tools (E) deeply into the slots on each side, then follow the arrows instructions as shown on the right.



# Troubleshooting

Symptom	Remedy/Cause
Sound cannot be heard.	Adjust the volume to the optimum level. / Check the cords and connections.
"PROTECT" appears and no operations can be done.	Check to be sure the terminals of the speaker leads are covered with insulating tape properly, then reset the unit. If "PROTECT" does not disappear, consult your nearest service center.
The unit does not work at all.	Reset the unit.
Radio reception is poor. / Static noise while listening to the radio.	Connect the antenna firmly. / Pull the antenna out all the way.
"IN" flashes.	The CD player is not operating properly. Reinsert the disc properly. If the condition did not improve, turn off the unit and consult your nearest service center.
CD-R/CD-RW cannot be played back and tracks cannot be skipped.	Insert a finalized CD-R/CD-RW (finalize with the component which you used for recording).
Disc sound is sometimes interrupted.	Stop playback while driving on rough roads. / Change the disc. / Check the cords and connections.
"NA FILE" appears.	The unit is playing an unsupported audio file.
"NO DISC" appears.	Insert a playable disc into the loading slot.
"TOC ERROR" appears.	The CD is quite dirty. / The CD is upside-down. / The CD is scratched a lot. Try another disc instead.
"ERROR 99" appears.	The unit is malfunctioning for some reason. Press the reset button on the unit. If the "ERROR 99" code does not disappear, consult your nearest service center.
"COPY PRO" appears.	A copy-protected file is played.
"READ ERROR" appears.	Copy the files and folders for the USB device again. If the error message is still displayed, initialize the USB device or use other USB devices.
"NO DEVICE" appears.	No USB device is connected. Connect a USB device, and change the source to USB again.
"NO MUSIC" appears.	The connected USB device contains no playable audio file.
"NA DEVICE" appears.	Connect a supported USB device, and check the connections.
"iPod ERROR" appears.	Reconnect the iPod. / Confirm that the software for the iPod is the latest version. / Reset the iPod.
Noise is generated.	Skip to another track or change the disc.
Tracks cannot play back as you have intended them to play.	Playback order is determined when files are recorded.
"READING" keeps flashing.	Longer readout time is required. Do not use too many hierarchies and folders.
Elapsed playing time is not correct.	This is caused by how the tracks are recorded.
The number of songs contained in "SONGS" category of this unit is different from that contained in "SONGS" category of iPod.	Podcast files are not counted in this unit as this unit does not support the playback of podcast files.
Correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.

## Bluetooth

Symptom	Remedy/Cause
The hands-free talk volume is low.	The hands-free talk volume can be adjusted independently. Adjust it during hands-free talk. <b>[MIC GAIN]</b> of <Bluetooth Setup> (page 20).
No beep is heard at reception of an incoming call.	No beep is heard depending on the type of your cell-phone. The <b>[CALL BEEP]</b> of <Bluetooth Setup> (page 20) is set ON.
Voice is not recognized.	<ul style="list-style-type: none"> <li>■ The vehicle window is open. If the surrounding noise is large, voice cannot be recognized properly. Close the vehicle windows to reduce noise.</li> <li>■ Small voice. If voice is too small, it cannot be recognized properly. Speak into the microphone a little more loudly and naturally.</li> <li>■ The person uttering the voice tag is not the one who registered the it. Only the voice of the person who registered the voice tag can be recognized.</li> </ul>
"NO NUMBER" appears.	The calling party does not notify a caller ID. / There is no phone number data.
"NO DATA" appears.	There is no outgoing call list. / There is no incoming call list. / There is no missed call list. / There is no phone book list. / Data is not contained in the phone book.
"NO ENTRY" appears.	The cell-phone has not been registered (pairing).
"HF DISCONCT" appears.	The unit cannot communicate with the cell-phone.
"AUD DISCONCT" appears.	The unit cannot communicate with the audio player.
"HF ERROR 07" appears.	The memory cannot be accessed. Turn off the power and on again. If this message still appears, press the reset button on the control unit.
"HF ERROR 68" appears.	The unit cannot communicate with the cell-phone. Turn off the power and on again. If this message still appears, press the reset button on the control unit.
"HF ERROR 89" appears.	Update of the Bluetooth firmware has failed. Retry it.
"UNKNOWN" appears.	The Bluetooth device cannot be detected.
"DEVICE FULL" appears.	5 Bluetooth device have already been registered. No more Bluetooth device cannot be registered.
"PIN CODE NG" appears.	The PIN code is wrong.
"CONNECT NG" appears.	The unit cannot be connected to the device.
"PAIRING NG" appears.	Pairing error.
"NO ACTIVE DVC" appears.	No cell-phone is connected. Connect your cell-phone before starting voice recognition.
The sound from the Bluetooth audio player is discontinuous.	<ul style="list-style-type: none"> <li>■ Another Bluetooth device is affecting the Bluetooth communication. Turn off another Bluetooth device. Move another Bluetooth device away from this unit.</li> <li>■ Another Bluetooth device or profile is used for communication. The downloading of the Phone book disconnects the sound.</li> </ul>

# Specifications

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## FM tuner section

Frequency range:

200 kHz space: 87.9 MHz — 107.9 MHz

50 kHz space: 87.5 MHz — 108.0 MHz

Usable sensitivity (S/N= 26 dB):

11.2 dBf (1  $\mu$ V/75  $\Omega$ )

Quieting sensitivity (DIN S/N= 46 dB):

19.2 dBf (2.5  $\mu$ V/75  $\Omega$ )

Frequency response ( $\pm 3$  dB): 30 Hz — 15 kHz

Signal-to-Noise ratio (MONO): 63 dB

Stereo separation (1 kHz): 40 dB

## AM tuner section

Frequency range:

10 kHz space: 530 kHz — 1,700 kHz

9 kHz space: 531 kHz — 1,611 kHz

Usable sensitivity (S/N= 20 dB): 31 dB $\mu$  (36  $\mu$ V)

## CD player section

Laser diode: GaAlAs

Digital filter (D/A): 8 Times Over Sampling

D/A converter: 24 Bit

Spindle speed: 500 rpm — 200 rpm (CLV)

Wow & Flutter: Below Measurable Limit

Frequency response ( $\pm 1$  dB): 20 Hz — 20 kHz

Total harmonic distortion (1 kHz): 0.01 %

Signal-to-Noise ratio (1 kHz): 105 dB

Dynamic range: 93 dB

MP3 decode: Compliant with MPEG-1/2 Audio Layer-3

WMA decode: Compliant with Windows Media Audio

## USB interface

USB standard: USB1.1/ 2.0 (Full speed)

Maximum supply current: DC 5 V  $\pm$  1 A

File system: FAT16/ 32

MP3 decode: Compliant with MPEG-1/2 Audio Layer-3

WMA decode: Compliant with Windows Media Audio

## Bluetooth section

Technology: Bluetooth Ver. 2.1+EDR Certified

Frequency: 2.402 GHz – 2.480 GHz

Output Power: +4 dBm (MAX), 0 dBm (AVE)  
Power Class 2

Maximum Communication range:

Line of sight approx. 10m (32.8 ft)

Profile:

HFP (Hands Free Profile),  
SPP (Serial Port Profile),  
OPP (Object Push Profile),  
PBAP (Phonebook Access Profile),  
A2DP (Advanced Audio Distribution Profile),  
AVRCP (Audio/Video Remote Control Profile)

## Audio section

Maximum output power: 50 W  $\times$  4

Full bandwidth power (at less than 1 % THD):  
22 W  $\times$  4

Speaker impedance: 4  $\Omega$  — 8  $\Omega$

Tone action:

Bass: 100 Hz  $\pm$  8 dB

Middle: 1 kHz  $\pm$  8 dB

Treble: 12.5 kHz  $\pm$  8 dB

Preout level / load (CD): 2,500 mV/ 10 k $\Omega$

Preout impedance:  $\leq$  600  $\Omega$

## Auxiliary input section

Frequency response ( $\pm 3$  dB): 20 Hz — 20 kHz

Input maximum voltage: 1,200 mV

Input impedance: 10 k $\Omega$

## General

Operating voltage:

14.4 V (10.5 V — 16 V allowable)

Maximum current consumption: 10 A

Installation size (W  $\times$  H  $\times$  D):

182 mm  $\times$  53 mm  $\times$  160 mm

Weight: 1.3 kg

Subject to change without notice.