KENWOOD

KDC-BT648U
KDC-X695
KDC-X395
KDC-348U

CD-RECEIVER
INSTRUCTION MANUAL
AMPLI-TUNER LECTEUR DE CD
MODE D'EMPLOI
REPRODUCTOR DE DISCOS COMPACTOS RECEPTOR DE FM/AM
MANUAL DE INSTRUCCIONES

Kenwood Corporation

Designed for Windows Media™

AAC

Made for iPod iPhone

Bluetooth®

SAT RADIO READY

Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help you obtain the best performance from your new CD-receiver.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on the product.

Model KDC-BT648U/ KDC-X695/ KDC-X395/ KDC-348U Serial number _____

US Residents Only

Register Online

Register your Kenwood product at **www.Kenwoodusa.com**

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B64-4798-10/01 (KW/K0)

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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 sounds outside the car. Driving with the volume too high 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.

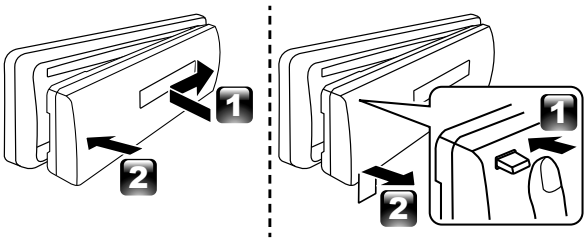
Cleaning the connector: Wipe off dirt on the connector of the unit and faceplate. Use a cotton swab or cloth.

- The "AAC" logo is a trademark of Dolby Laboratories.
- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Kenwood Corporation is under license. Other trademarks and trade names are those of their respective owners.
- Ready to receive HD Radio™ broadcasts when connected to the KTC-HR300/ KTC-HR200/ KTC-HR100TR, sold separately.
- "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.
- iTunes is a trademark of Apple Inc.

This symbol mark indicates that Kenwood manufactured this product so as to decrease harmful influence on the environment.

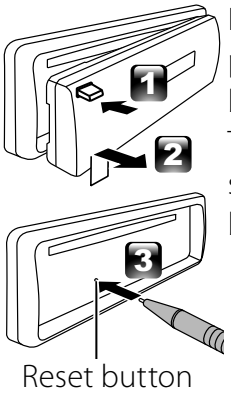
Preparation

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 piece of equipment 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

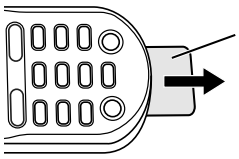


If this unit fails to operate properly, press the reset button.
The unit returns to factory settings when the reset button is pressed.

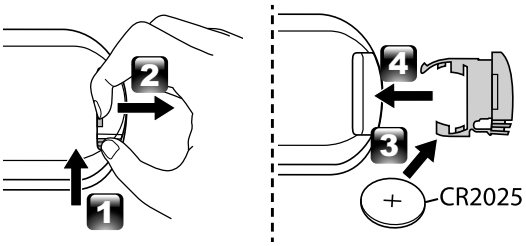
Reset button

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 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 physician immediately.

CALIFORNIA, USA ONLY

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

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

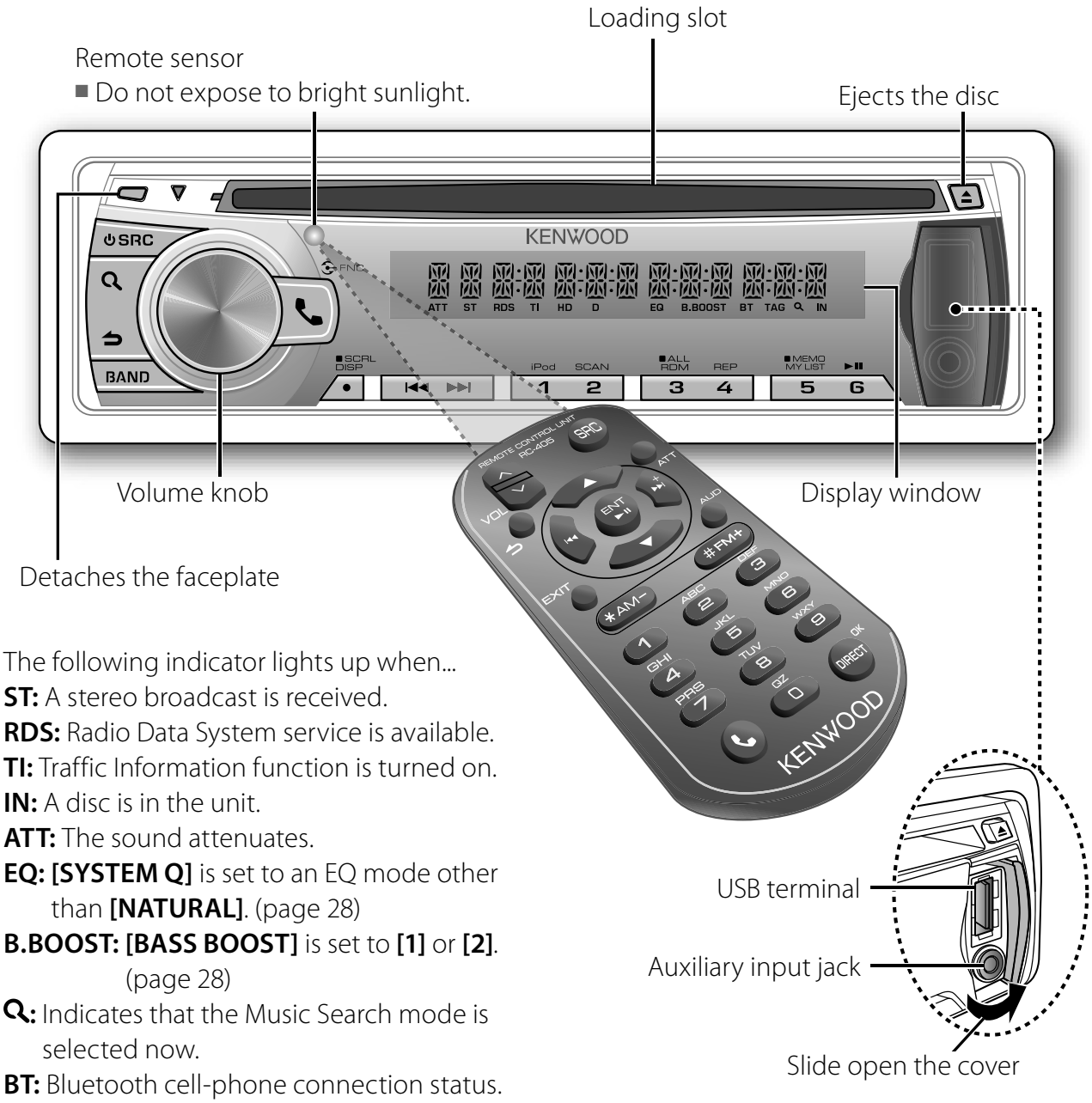
1. Press the volume knob to enter **[FUNCTION]** mode.
2. Turn the volume knob to select **[SETTINGS]**, then press to enter.
3. Turn the volume knob to select **[CLOCK]**, then press to enter.
4. Turn the volume knob to select **[CLOCK ADJUST]**, then press to enter.
   Clock hour flashes on the display.
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) and another Satellite Radio Tuner.
KEY BEEP	ON */ OFF: Activates/deactivates the keypress tone.
BUILT-IN AUX	ON1 *: Outputs sound of the connected external component through the car speakers when "AUX" is selected as the source. ; ON2: Outputs sound from the connected external component when "AUX" is selected as the source. When you turn on the power, the sound attenuates (to prevent noise when no external component is connected). Turn the volume knob clockwise to return to the previous volume level. ; 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: www.kenwood.com/cs/ce/

Basic Operations



The following indicator lights up when...
ST: A stereo broadcast is received.
RDS: Radio Data System service is available.
TI: Traffic Information function is turned on.
IN: A disc is in the unit.
ATT: The sound attenuates.
EQ: [SYSTEM Q] is set to an EQ mode other than **[NATURAL]**. (page 28)
B.BOOST: [BASS BOOST] is set to **[1]** or **[2]**. (page 28)
Q: Indicates that the Music Search mode is selected now.
BT: Bluetooth cell-phone connection status.

The illustration and button names used for explanation in this manual are of **KDC-BT648U/ KDC-X695** (unless mentioned otherwise).
Refer to the table below for the difference:

KDC-BT648U/ KDC-X695	
KDC-X395/ KDC-348U	

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

Main unit	Remote controller	General operation
⏻ SRC	—	■ Turns on. ■ Turns off if pressed and held.
	SRC	Selects the available sources (TUNER, USB or iPod, CD, AUX, STANDBY), if the power is turned on. • *If the source is ready, playback also starts. "iPod" and "CD" are selectable only when an iPod is connected or a disc is loaded.*
Volume knob (turn)	**VOL∧∨**	Adjusts the volume level.
	▲ / ▼	Selects items.
Volume knob (press)	**ENT ►II**	Confirms selection.
	—	Enters **[FUNCTION]** settings.
BAND	***AM– / #FM+**	■ Selects the FM bands (FM1/ FM2/ FM3) or AM. ■ Selects the next folder. (Press ***AM–** on remote controller to select the previous folder.)
6 (►II)	**ENT ►II**	Pauses/resumes playback of a disc/ USB device/ iPod.
I◄◄ / ►►I	**I◄◄ / +►►I**	■ Searches for radio station. ■ Selects track/file. ■ Fast-forwards/reverses tracks/files if pressed and held.
SCRL DISP	—	■ Changes the display information. ■ Scrolls the display information if pressed and held. ■ Enters clock adjustment mode directly (page 5) if pressed and held while in clock display screen.
📞	📞	KDC-BT648U/ KDC-X695 only: ■ Enters Bluetooth mode. (page 15) ■ Press to answer an incoming call.
	—	■ Enters Bluetooth easy pairing mode if pressed and held. (page 18)
iPod	—	KDC-X395/ KDC-348U only: ■ Selects "iPod" source. ■ Switches the controlling terminal (HANDS ON/ HANDS OFF) for iPod playback if pressed and held. (page 13)
—	**AUD**	Enters **[AUDIO CONTROL]** settings directly.
—	**ATT**	Attenuates the sound. • *To return to the previous level, press the button again.*
⮌	⮌	Returns to the previous item.
	EXIT	Exit from setting mode. • *Press and hold ⮌ on the main unit will also exit from the setting mode.*

Muting upon the reception of a phone call (KDC-X395/ KDC-348U only)

To use this feature, connect the MUTE lead to your telephone using a commercial telephone accessory. (See "Installation Manual" on a separate volume.)

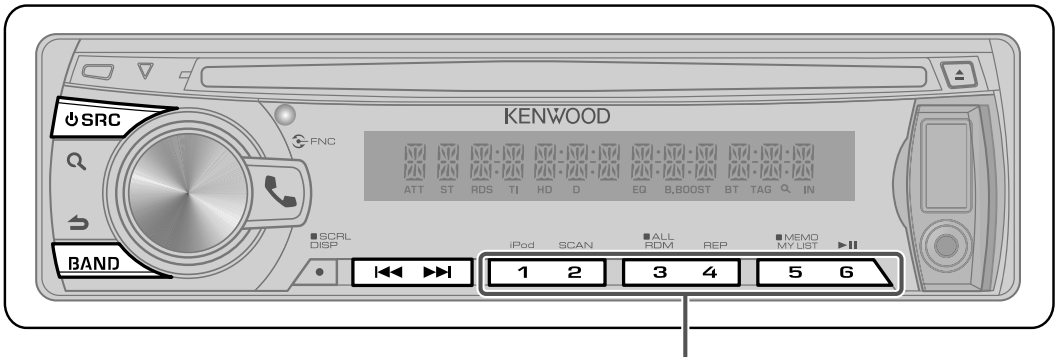
When a call comes in, "CALL" appears.

- The audio system pauses.
- To continue listen to the audio system during a call, press ⏻ **SRC**. "CALL" disappear and the audio system resumes.

When a call ends, "CALL" disappear.

- The audio system resumes.

Listening to the Radio



- Hold for about 2 seconds to memorize the current station or the selected Program Type. (Refer to **[PTY SEARCH]** on the table below to select the Program Type.)
- Press briefly to recall memorized station (or Program Type after entering the PTY search mode).

1 Press ⏻ **SRC** to select "TUNER".
2 Press **BAND** repeatedly to select a band (FM1/ FM2/ FM3/ AM).
3 Press **I◄◄ / ►►I** to search for a station.

Using the remote controller (RC-405)

#FM+ / *AM– : Selects band.
I◄◄ / +►►I : Selects station.
1 – 6 : Selects preset station.

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	Selects the tuning mode for I◄◄ / ►►I buttons. **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)
TI	**ON:** The traffic information automatically when the traffic bulletin starts. ; **OFF *:** Cancels. (Not applicable if "AM" is selected)

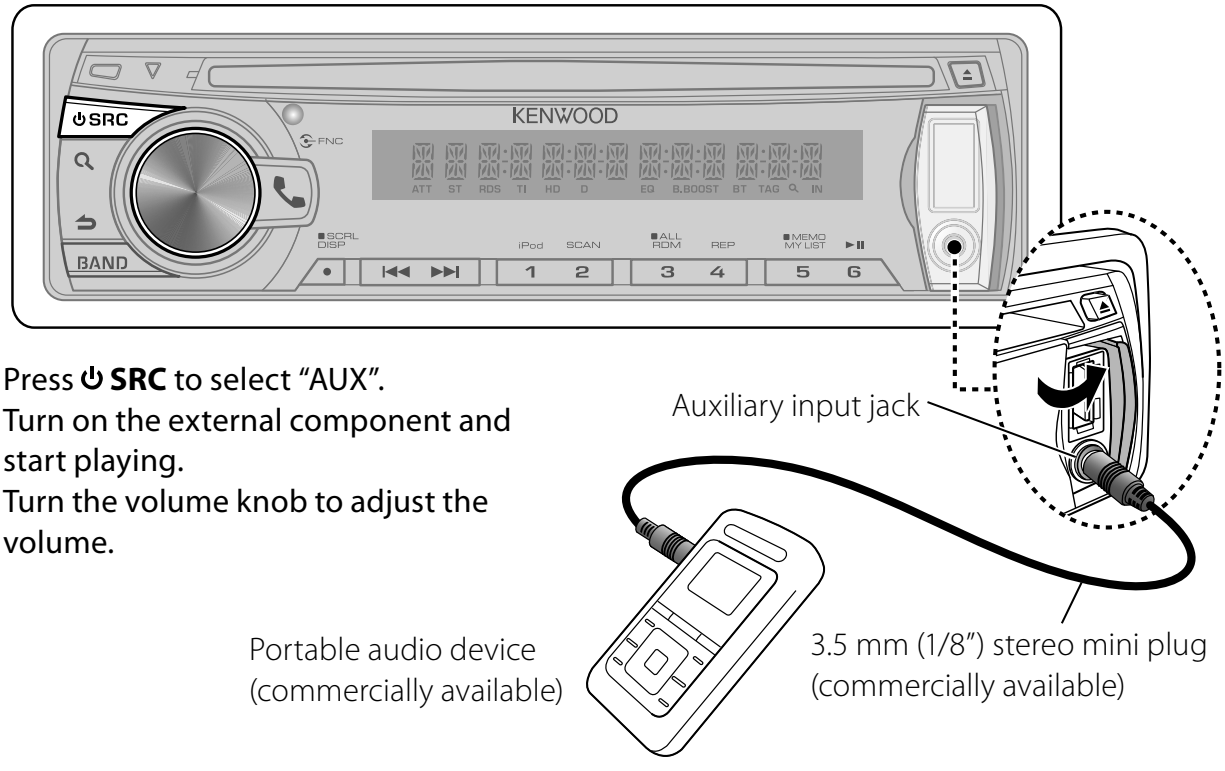
Item	Selectable setting (Preset: *)
MONO SET	**ON:** Improves the FM reception (but the stereo effect may be lost). ; **OFF *:** Cancels (stereo effect resumes).
PTY SEARCH	Selects the available Program Type (page 9). Then, press ⏮ / ⏭ to start searching.

- **[TI]** is selectable only when the source is "FM". If other playback source is selected, these settings are selectable under **[TUNER SET]** item. (page 29)
- **Available Program Type:**
  SPEECH; *MUSIC*; NEWS; INFORM; SPORTS; TALK; *ROCK*; *CLS (classic) ROCK*; *ADLT (adult) HIT*; *SOFT RCK (rock)*; *TOP 40*; *COUNTRY*; *OLDIES*; *SOFT*; *NOSTALGA*; *JAZZ*; *CLASSICL*; *R & B*; *SOFT R&B*; LANGUAGE; *REL (religious) MUSC*; REL (religious) TALK; PERSNLTY (personality); PUBLIC; COLLEGE; WEATHER
  The unit will search for the Program type categorized under **[SPEECH]** or ***[MUSIC]*** if selected.
  [SPEECH] : Roman typeface item. ; ***[MUSIC]*** : Italic typeface item.

- The Radio Data System feature won't work where the service is not supported by any broadcasting station.
- If the volume is adjusted during reception of traffic information, the adjusted volume is memorized automatically. It will be applied the next time Traffic Information function is turned on.

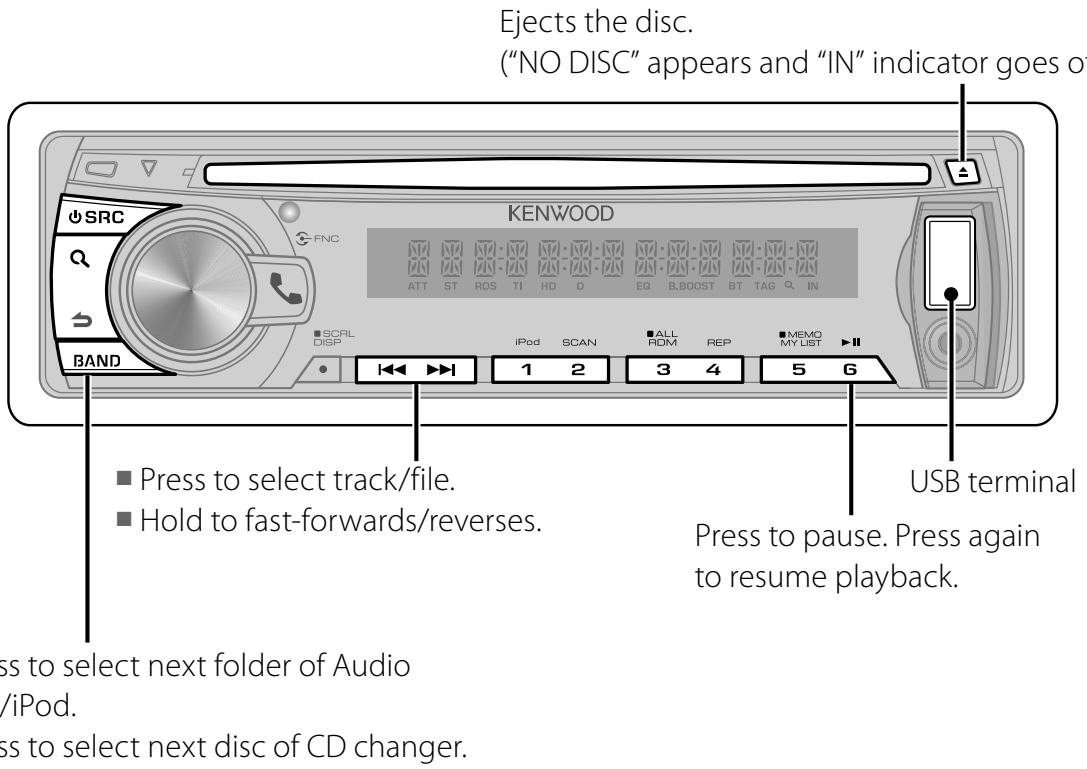
Listening to the other external components

Preparation : Make sure **[ON1]** or **[ON2]** is selected for **[BUILT-IN AUX]**. (page 5)



1. Press ⏻ **SRC** to select "AUX".
2. Turn on the external component and start playing.
3. Turn the volume knob to adjust the volume.

Listening to a Disc/ USB device/ iPod

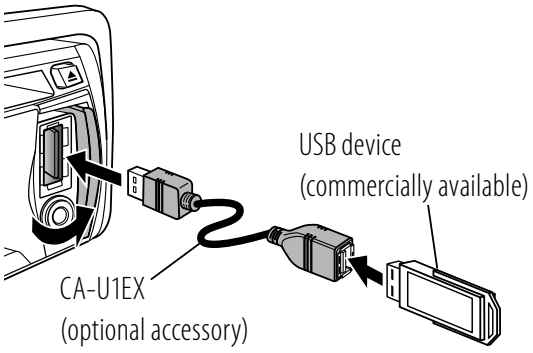


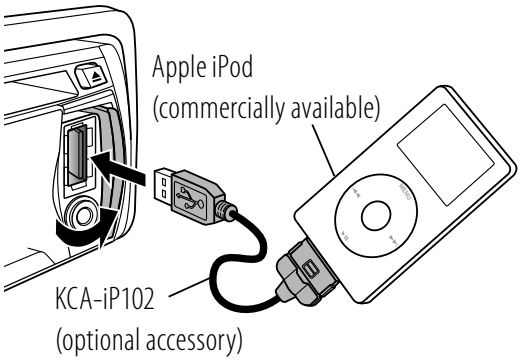
Start playing a disc

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.

Start playing the disc changer

1 Press ⏻ **SRC** to turn on the power.
2 Press ⏻ **SRC** to select "CD CHANGER".

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
CD changer : TRACK REPEAT, DISC 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
CD changer : DISC 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 Magazine Random Play

Press number button **5** repeatedly to make a selection.

CD changer : MGZN (magazine) RANDOM, RANDOM OFF

Selecting Scan Play

Press number button **2 (SCAN)** repeatedly to make a selection.

Audio CD : TRACK SCAN, SCAN OFF
Audio File : FILE SCAN, SCAN OFF
CD changer : TRACK SCAN, SCAN OFF

■ If scan play is selected, the unit starts playing the first 10-second intro of the music in the disc/current folder.
If "SCAN OFF" is selected, the unit resumes normal play of the current song.

Selecting a folder/track/file

• *Not available if disc changer playback is selected.*

1 Press 🔍 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 skips songs, press ⏮/ ⏭. Holding ⏮/ ⏭ skips songs at 10% regardless of the setting made. (page 13)
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 **BAND**.

■ 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 🔍 to enter Music Search mode.
"SEARCH" appears.

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

3 Press 🔍 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.

Continued to next page

■ 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, Scan 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 ⮌.

Direct Disc Search using the remote controller (RC-405)

- *Only when the source is CD changer.*
- *Not available if Random Play, Scan Play is selected.*

1 Press **DIRECT** to enter Direct Disc Search mode.
"– –" appears.
2 Press the number buttons to enter the disc number.
3 Press **#FM+** / ***AM–** to search for the disc.

■ To cancel the Direct Disc Search mode, press ⮌.

Using the remote controller (RC-405)

In playback mode:

#FM+ / *AM– : Selects folder/disc.
⏮ / +⏭ : Selects track/file.
ENT ⏯ : Pauses/resumes playback.

In Music Search mode:

ENT ⏯ : Confirms selection.
▲ / ▼ : Selects folder/file/track.
⮌ : Returns to the previous folder.

My Playlist for iPod

Registering songs in the playlist

1 Select and play the song you want to register. (page 11)
2 Press and hold number button **5 (MEMO MY LIST)** to register.
"## STORED" (registration number) appears. You can register up to 10 songs. "MEMORY FULL" appears, if you try to register the eleventh song.

■ If you attempt to register a song from a different iPod, "NO INFO" followed by "MPLIST DELETE" appears.
To delete the playlist, turn the volume knob to select "YES", then press to confirm.
■ You can also register the song displayed in the Music Search mode by following the same procedure.
■ Do not register Podcasts.

Playing a song on the playlist

1 Press number button **5 (MEMO MY LIST)** to display the playlist.
"MY PLAYLIST" appears.
2 Turn the volume knob to select the song you want, then press to confirm.

■ Random play cannot be performed during playback of a song in the playlist.

Deleting a song on the playlist

1 Press number button **5 (MEMO MY LIST)** to display the playlist.
"MY PLAYLIST" appears.
2 Turn the volume knob to select the song you want to delete, then press and hold the volume knob.
3 Turn the volume knob to select **[DELETE ONE]** or **[DELETE ALL]**, then press to confirm.
Select "DELETE ALL" to delete all the songs in the playlist.
4 Turn the volume knob to select **[YES]**, then press to confirm.
"COMPLETED" appears.

iPod control by Hand mode

Press number button **1 (iPod)** repeatedly to make a selection.

KDC-X395 / **KDC-348U**

Press and hold **iPod** repeatedly to make a selection.

HANDS ON :

Control iPod from the iPod.

- This mode is not compatible with music information display. The display will show "iPod MODE".

HANDS OFF: Control iPod 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 make a selection, then press to confirm.
   See the following table for selection.
4. Hold ⮌ to finish the procedure.

Item	Selectable setting (Preset: *)
SKIP SEARCH	**0.5% */ 1%/ 5%/ 10%:** Sets the ratio of skip when searching for a song in Music Search mode.
MPLIST DELETE	**YES:** Deletes the saved My Playlist. ; **NO *:** Cancels.

- **[MPLIST DELETE]** is selectable only when the source is "iPod".

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 from the center of the disc and move outward.
- Clean the disc with a dry silicon or soft cloth. Do not use any solvents.
- When removing discs from this unit, pull them out horizontally.
- Remove the rims from the center hole and disc edge before inserting a disc.

Discs that cannot be used

- This unit can only play the CDs with:

- Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- You cannot play a Recordable/ReWritable disc that has not been finalized. (For the finalization process refer to your disc writing software, and your disc recorder instruction manual.)
- 3-inch CD cannot be used. Attempt to insert using an adapter can cause malfunction.

About Audio file

- Playable Audio file
  : MP3 (.mp3), WMA (.wma)
  : AAC-LC (.m4a) KDC-BT648U/ KDC-X695 only
- Playable disc media: CD-R/RW/ROM
- Playable disc file format: ISO 9660 Level 1/2, Joliet, Romeo, Long file name.
- Playable USB device file system: FAT16, FAT32

Continued to next page

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/

About 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 and 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.
- A USB connection cable, CA-U1EX (optional accessory) is required for connecting a USB device.

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 4
– iPhone 3GS
– iPhone 3G
– iPhone

(As of January 2011)

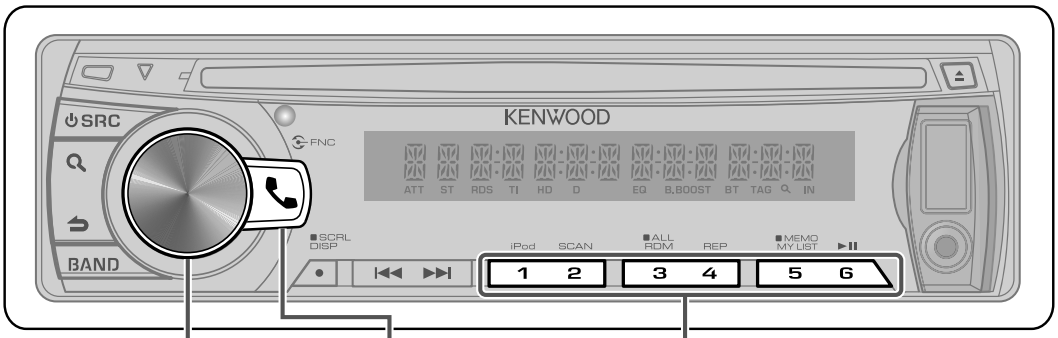
- Latest compatible list of iPod/iPhone. For details, see: www.kenwood.com/cs/ce/ipod
- Type of control available varies depending on the type of connected iPod. For details, see above URL.
- The word "iPod" appearing in this manual indicates the iPod or iPhone connected to this unit with a connection 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 iPod if "KENWOOD" or "✓" displayed on 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 a file by title, album or artist name using 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/
- For further information on "KENWOOD Music Editor Light ver1.1", refer to the site above or the application help.

Operation of Hands-Free Phoning

Preparation : KDC-X395/ KDC-348U: Only with the optional accessory KCA-BT300 or KCA-BT200 connected.



KDC-X395/ KDC-348U
- Press and hold to enter Bluetooth mode.
- Press to answer an incoming call.

- Press and hold for about 2 seconds to memorize the current phone number.
- Press briefly to recall memorized phone number.

KDC-BT648U/ KDC-X695
- Press to enter Bluetooth mode.
- Press to answer an incoming call.

Getting Started

Before use the cell-phone, you need to connect cell-phone to this unit.

- For details on the Bluetooth cell-phone with the hands-free function, see <About the Cell-Phone> (page 22).

KDC-BT648U / **KDC-X695**

1 Press and hold to enter easy pairing mode
"PAIRING" is displayed.

2 "SEARCHING" is displayed.
Search for the Bluetooth device.
When search is completed, "FINISHED" is displayed.

3 Turn the volume knob to select a cell-phone name, press to confirm.

4 Input the PIN code
- Turn the volume knob to select the number.
- To move to the next digit, press ►►I.
- To delete the last digit, press I◄◄.

5 Press the volume knob to transmit the PIN code.
If "PAIRING OK" is displayed, registration is completed.
When "CONFIRM PHONE" is displayed, confirm connection with a cell-phone operation.

6 The receiver is connected to a cell-phone, with "HF CONNECT" displayed, and exits the easy pairing mode.

- For more details, see <Easy Pairing function> (page 18).
- If an error code is displayed during paring, see <Troubleshooting> (page 34).

KDC-X395 / **KDC-348U**

The following 3 steps procedure is necessary.

Step 1. Pairing (Registering from Bluetooth devices)

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 (pairing). Select "KCA-BT300" or "KCA-BT200" from the list of connected units.

3 Input the PIN code ("0000") in the Bluetooth device.
Check that registration is complete on

Continued to next page

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 22).

4 By operating the Bluetooth device, start hands-free connection.

Step 2. Connection

If you have registered 2 or more cell-phones, you need to select one of them. For more details, see <Selecting the Bluetooth Device> (page 20).
When a cell-phone is connected, the "BT" indicator lights up.

Step 3. Hands-free phoning

You can do hand-free phoning when the connection is made.

- When registering from this unit. Refer to <Registering Bluetooth Device (Pairing)> (page 19).

Making a Call

1 **KDC-BT648U** / **KDC-X695**
Press to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob 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": Dial a Number
  - "VOICE RECOG": Make a Voice Dialing Call
  - Speed Dialing (Preset Dial)
- Switches between name and phone number, press **DISP**.
- To return to the Bluetooth mode, press and hold ⮌.
- To exit Bluetooth mode, press ⏻ **SRC**.

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 **BAND**.
- 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 17).
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".
- The category items in the Phone Book are displayed as follows.
  GE: General ; **HM:** Home ; **OF:** Office ; **MO:** Mobile ; **OT:** Other

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.

- The outgoing call list and the incoming call list, and the missed call list are the lists of calls originated from and received at this unit. They are not the ones stored in the cell-phone memory.

Dial 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 +(►►I) on the remote controller.

4 Make a call.

- Press the volume knob.
- Press **OK** on the remote controller.

- You can input max 25 (KDC-BT648U/ KDC-X695) / 32 (KDC-X395/ KDC-348U) digits.

Speed Dialing (Preset Dial)

2 Press number button (**1 – 6**).

3 Press the volume knob to make a call.

Registering to the Preset Dial Number (Preset Memory)

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

3 Press and hold number button (**1 – 6**) for about 2 seconds.

Make a Voice Dialing Call

2 Turn the volume knob to select "VOICE RECOG", then press to enter.
"V-RECG READY" is displayed.

3 Press the volume knob to start voice recognize.

4 "PB NAME" is displayed.
When a beep is heard, say the name within 2 seconds.

5 "PN TYPE" is displayed.
When a beep is heard, say the category name within 2 seconds.
The recognized phone number (name) is displayed.

6 Press the volume knob to make a call.

- This step is the same as step 4 of the procedure in <Calling a Number in the Phone Book> (page 16). You can make a call or select a category.

- If your voice cannot be recognized, a message is displayed. Pressing the Volume knob allows you to retry voice input. Refer to <Troubleshooting> (page 34).
- Both the name and category require registration of a voice tag. Refer to <Setting a Voice Command> (page 20).
- Audio sound is not output during voice recognition.

Receiving a Call

Answering a Phone Call

KDC-BT648U / **KDC-X695**
Press ✆.
KDC-X395 / **KDC-348U**
Press the volume knob.

Rejecting an Incoming Call

Press ⏻ **SRC**.

During a Call

Disconnecting a Call

KDC-BT648U / **KDC-X695**
Press ✆.
KDC-X395 / **KDC-348U**
Press ⏻ **SRC**.

Switching to the Private Mode

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

Call Waiting

Answering Another Incoming Call with the Current Call Suspended

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

Continuing the Current Call

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

Switching between the Current Call and Waiting Call

Press the volume knob to switches the calling party.

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.
- If no phone book data is found in the unit even after the compete display, your cell-phone may not support automatic

Continued to next page

download of phone book data. In this case, try downloading manually.

To download from the cell-phone manually

1 By operating the cell-phone, end the hands-free connection.

2 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.
- During downloading: "DOWNLOADING" is displayed.
- After completion of downloading: "COMPLETE" is displayed.

3 By operating the cell-phone, start the hands-free connection.

- To clear the downloading completion message, press any button.
- Up to 1000 phone numbers can be registered for each registered cell-phone.
- Up to 25 (KDC-BT648U/ KDC-X695)/ 32 (KDC-X395/ KDC-348U) digits can be registered for each phone number along with up to 50* characters representing a name.
(* 50: Number of alphabetical characters. Fewer characters can be input depending on the type of characters.)
- 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
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.
ENT ►II : Switch between the private talk mode and the hands-free talk mode.

Call waiting:

📞 : Answer Another Incoming Call with the Current Call Suspended.
SRC : Answer another Incoming Call after Terminating the Current Call.
1 : Continue the Current Call.

During a call:

SRC : End the call.

Bluetooth Setup

Preparation : KDC-X395/ KDC-348U: Only with the optional accessory KCA-BT300 or KCA-BT200 connected.

Easy Pairing function

• *KDC-BT648U/ KDC-X695 only.*

1 Press and hold **📞** to enter easy pairing mode
"PAIRING" is displayed.
- Any of the following is displayed depending on cell-phone registration condition:
  - "SEARCHING": When registering a cell-phone for the first time.
  - "(cell-phone name)": When a cell-phone has already been registered.
  - "DEVICE FULL": When maximum of five cell-phones have already been registered.

When registering a cell-phone for the first time, registering a cell-phone

2 "SEARCHING" is displayed.
Search for the Bluetooth device.
When search is completed, "FINISHED" is displayed.

3 Turn the volume knob to select a cell-phone name, press to confirm.

4 Input the PIN code
- Turn the volume knob to select the number.
- To move to the next digit, press ►►I.
- To delete the last digit, press I◄◄.

5 Press the volume knob to transmit the PIN code.
If "PAIRING OK" is displayed, registration is completed.
When "CONFIRM PHONE" is displayed, confirm connection with a cell-phone operation.

6 The receiver is connected to a cell-phone, with "HF CONNECT" displayed, and exits the easy pairing mode.

- If an error code is displayed during paring, see <Troubleshooting> (page 34).

When a cell-phone has already been registered, or maximum of five cell-phones have already been registered/ selecting a cell-phone

2 "(cell-phone name)" or "DEVICE FULL" is displayed.

3 Turn the volume knob to select a cell-phone name.
- To register a new cell-phone, select "[DVC SEARCH]", then go to "When registering a cell-phone for the first time."

4 Press the volume knob to set up the cell-phone.
- "✱(cell-phone name)": The selected Bluetooth device is busy.
- "-(cell-phone name)": The selected Bluetooth device is on standby.
- " (cell-phone name)": The Bluetooth device is deselected.
- If a cell-phone is already selected, deselect it, and then select a different one.

5 Press 📞 to exit easy pairing mode.

Deleting the registered cell-phone

2 "(cell-phone name)" or "DEVICE FULL" is displayed.

3 Turn the volume knob to select a cell-phone 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.

Registering Bluetooth Device (Pairing)

Registering from Bluetooth devices

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 (pairing). Select "KENWOOD BT CD/R-3P1", "KCA-BT300" or "KCA-BT200" from the list of connected 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 22).

4 By operating the Bluetooth device, start hands-free connection.

Registering from this unit

1 **KDC-BT648U** / **KDC-X695**
Press 📞 to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob 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 **[DEVICE SEARCH]**, then press to enter.

5 Press the volume knob to search for the Bluetooth device.
When search is completed, "FINISHED" is displayed.

6 Turn the volume knob to select a Bluetooth device name, press to confirm.

Continued to next page

7 "PAIRING" is displayed (KDC-X395/ KDC-348U with KCA-BT300 only)
If "PAIRING OK" is displayed, proceed to step 10.
If "PIN CODE NG" is displayed, proceed to steps 8.

8 Input the PIN code
- Turn the volume knob to select the number.
- To move to the next digit, press ►►I.
- To delete the last digit, press I◄◄.

9 Press the volume knob to transmit the PIN code.
If "PAIRING OK" is displayed, registration is completed. If the error message appears even though the PIN code is correct, try Registering Special Bluetooth device.

10 Hold ⮌ to finish the procedure.

- To exit Bluetooth mode, press ⏻ **SRC**.
- If there are 5 or more Bluetooth devices registered, you cannot register a new Bluetooth device.

Registering Special Bluetooth device

1 **KDC-BT648U** / **KDC-X695**
Press 📞 to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob 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 **[S-DVC SELECT]**, then press to enter.

5 Turn the volume knob to select a device name, press to confirm.

6 Go through the procedure step 4 of <Registering from this unit> and complete the registration (pairing).

- If the device name is not in the list, select "OTHER PHONE".

Selecting the Bluetooth Device

1 **KDC-BT648U** / **KDC-X695**
Press 📞 to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob 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.
- " (Device name)": The Bluetooth device is deselected.
- If a cell-phone is already selected, deselect it, and then select a different one.

7 Hold ⮌ to finish the procedure.

- To exit Bluetooth mode, press ⏻ **SRC**.

Setting a Voice Command

Registering Phone Book Name

1 **KDC-BT648U** / **KDC-X695**
Press 📞 to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob to enter Bluetooth mode.

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

3 Turn the volume knob to select **[VOICE TAG]**, then press to enter.

4 Turn the volume knob to select **[PB NAME EDIT]**, then press to enter.

5 Search for the Phone Book name to register
Select the name to register with reference to 5 in <Calling a Number in the Phone Book> (page 16).
If a voice tag has already been registered for a name, "*" is displayed before the name.

6 Turn the volume knob to select **[PB NAME REG]**, then press to enter.

■ To select "PB NAME CHK", play the registered voice.
■ To select "PB NAME DEL", delete a voice tag. Turn the volume knob to select "YES", then press to confirm.

7 "ENTER 1" is displayed. When a beep is heard, say a voice tag within 2 seconds.

8 "ENTER 2" is displayed. When a beep is heard, say the same voice tag as that you said in step 7 within 2 seconds.
"COMPLETE" is displayed.

9 Press the volume knob to return to step 5.

■ To exit Setting mode, press ⮌.
■ To exit Bluetooth mode, press ⏻ **SRC**.
■ You can register up to 35 voice tags.
■ Audio sound is not output during voice tag registration.

Registering Phone Book Name Type

1 **KDC-BT648U** / **KDC-X695**
Press 📞 to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob to enter Bluetooth mode.

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

3 Turn the volume knob to select **[VOICE TAG]**, then press to enter.

4 Turn the volume knob to select **[PN TYPE EDIT]**, then press to enter.

5 Turn the volume knob to select **[GENERAL]**, **[HOME]**, **[OFFICE]**, **[MOBILE]**, or **[OTHER]**, then press to enter.

6 Turn the volume knob to select **[PN TYPE REG]**, then press to enter.

■ To select "PN TYPE CHK", play the registered voice. (KDC-X395/ KDC-348U only)
■ To select "PN TYPE DEL", delete a voice tag. Turn the volume knob to select "YES", then press to confirm. (KDC-X395/ KDC-348U only)

7 "ENTER 1" is displayed. When a beep is heard, say a voice tag within 2 seconds.

8 "ENTER 2" is displayed. When a beep is heard, say the same voice tag as that you said in step 7 within 2 seconds.
"COMPLETE" is displayed.

9 Press the volume knob to return to step 5.

■ Set the voice tag for all the 5 categories. If the voice tag is not registered for all the categories, the Phone book may not be recalled by voice command.

Bluetooth Setup

1 **KDC-BT648U** / **KDC-X695**
Press 📞 to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob 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 exit Bluetooth mode, press ⏻ **SRC**.

Item		Selectable setting (Preset: *)
PAIRING		
	DEVICE SEARCH	Registers a Bluetooth device (pairing). (For details, see page 19.)
	PHONE SELECT	Selects a cell-phone connection. (For details, see page 20.)
	AUDIO SELECT	KDC-X395/ KDC-348U only: Selects a Bluetooth audio player connection. (For details, see page 20.)
	S-DVC SELECT	(For details, see page 19.)

Continued to next page

Item		Selectable setting (Preset: *)
	DEVICE DELETE	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.
SMS DOWNLOAD		Download a short message. (For details, see page 23.)
VOICE TAG		
	PB NAME EDIT	Registers voice for voice recognition and voice to select the Phone number category in Phone book. (For details, see page 20.)
	PN TYPE EDIT	
DETAILED SET		
	PIN CODE EDIT	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 ▶▶I. ■ To delete the last digit, press I◀◀. 2. Press the volume knob to register a PIN code
	AUTO ANSWER	**OFF:** Does not answer the phone call automatically. ; **0:** Automatically answers the phone call at once. ; **1 – 8 * –99:** Automatically answers the phone call after lapse of 1 – 99 seconds.
	RECONNECT	KDC-BT648U/ KDC-X695 only **ON *:** Automatically reconnects the selected Bluetooth device when radio wave becomes strong enough, even after it is disconnected. ; **OFF:** Cancels. ■ When this function is turned ON, the Bluetooth device is reconnected if it has been disconnected by selecting **[PHONE SELECT]**.
	BT HF / BT HF/AUDIO	**FRONT *:** Outputs audio from the front-left and front-right speakers. ; **ALL:** Outputs audio from the all speakers.
	CALL BEEP	**ON *:** You can output a beep from the speaker when a call comes in. ; **OFF:** Cancels.
	BT F/W UPDATE	Display the firmware version and update the firmware.
	MIC GAIN	**–3 — 0 * — +3:** Adjust the sensitivity of the built-in microphone for a telephone call. Adjust the voice of caller. Setting to "+" increases the voice volume.
	NR LEVEL	**–3 — 0 * — +3:** Reduce the noises generated by surrounding environment without changing the built-in microphone volume. Adjust the voice of caller when it is not clear. Setting to "+" increases the noise reduction.
	EC LEVEL	**–2 — 0 * — +2:** Adjust the level of echo cancellation. Setting to "+" increases the echo cancel reduction.
	MIC SELECT	Determines whether the built-in or external microphone is to be used when the receiver incorporates a microphone. **IN *:** Use the built-in microphone. ; **EXT:** Use the external microphone.

■ **[MIC GAIN]**, **[NR LEVEL]**, **[EC LEVEL]** is selectable only for KDC-BT648U, KDC-X695 and KDC-X395/KDC-348U with KCA-BT300.

About the Cell-Phone

■ Version: Bluetooth Standard Ver. 2.0

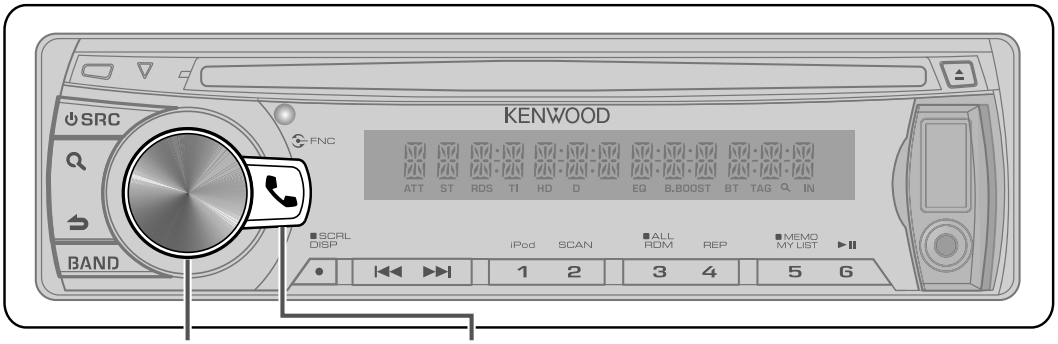
■ Profile:
HFP (Hands Free Profile)
OPP (Object Push Profile)
PBAP (Phone book Access Profile)
SYNC (Synchronization Profile)

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

SMS (Short Message Service)

Preparation : KDC-X395/ KDC-348U: Only with the optional accessory KCA-BT300 or KCA-BT200 connected.



KDC-X395/ KDC-348U
Press and hold to enter Bluetooth mode.

KDC-BT648U/ KDC-X695
Press to enter Bluetooth mode.

Downloading the SMS

1 **KDC-BT648U** / **KDC-X695**
Press to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob to enter Bluetooth mode.

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

3 Turn the volume knob to select **[SMS DOWNLOAD]**, then press to enter.

4 Start downloading
- During downloading: "DOWNLOADING" is displayed.
- After completion of downloading: "COMPLETE" is displayed.

5 Hold to finish the procedure.

- To exit Bluetooth mode, press **SRC**.
- The cell-phone must be able to transmit the SMS using Bluetooth. Setting on the cell-phone may be required. If the cell-phone does not support SMS function, the SMS download item in Function Control mode is not displayed.
- When the SMS is downloaded from the cell-phone, the unopened messages in the cell-phone are opened.
- The already-read and unread short messages can be respectively downloaded up to 75.

Display the SMS

⚠ To prevent car accidents, the driver should not read the SMS while driving.

When a new message arrives
"SMS RECEIVED" is displayed.

Displaying the SMS

1 **KDC-BT648U** / **KDC-X695**
Press to enter Bluetooth mode.
KDC-X395 / **KDC-348U**
Press and hold the volume knob to enter Bluetooth mode.

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

3 Turn the volume knob to select a message.
- Switches between name, phone number and message reception date, press **DISP**.

4 Press the volume knob to display the text.
- To scrolls the message, turn the volume knob.
- To return to the message list, press the volume knob.

5 Hold to finish the procedure.

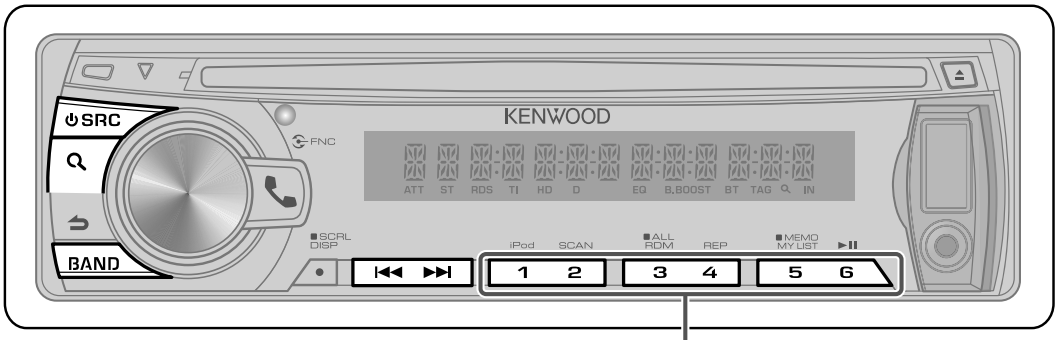
- To exit Bluetooth mode, press **SRC**.

Continued to next page

■ The unopened message is displayed at the beginning of the list. Other messages are displayed in the order of reception.
■ The SMS that has arrived when the cell-phone is not linked with Bluetooth cannot be displayed. Download the SMS.
■ The short message cannot be displayed during downloading the SMS.
■ Unread messages are prefixed with an asterisk (*).

HD Radio™ Tuner Control

Preparation : Only with the optional accessory HD Radio tuner connected. When you connect an HD Radio tuner, Tuner features of the unit are disabled and changed to HD Radio tuner features. With the HD Radio tuner, you can use the similar functions of Tuner features.



■ Press and hold for about 2 seconds to memorize the current station.
■ Press briefly to recall memorized station.

1 Press ⏻ **SRC** to select "HD RADIO".
2 Press **BAND** repeatedly to select a band (FM1/ FM2/ FM3/ AM).
3 Press ⏮ / ⏭ to search for a station or channel.

The following indicator lights up when...
HD: Lights when HD Radio broadcasting is tuned.
D: Lights when HD Radio digital broadcasting is tuned.
MC: Lights when HD Radio multicast broadcasting is tuned.
TAG: Lights when iTunes Tagging is enabled.

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

• *Only with optional accessory KTC-HR300 tuner connected.*

1 Press **BAND** to select a band.
2 Press **DIRECT** to enter Direct Access Tuning mode.
"– – – –" appears.
3 Press **DIRECT** to select tuning item.
- "– – – –" : Frequency.
- "HD –" : Channel.
- Cancelling Direct Access Tuning.

4 Press the number buttons to enter the frequency or channel.
5 Press ⏮ / +⏭ to search for the frequency or channel.

■ To cancel the Direct Access Tuning mode, press ⮌.
■ If you make no button operation for 10 seconds, the Direct Access Tuning mode is automatically canceled.

Using the remote controller (RC-405)

#FM+ / *AM– : Selects band.
I◄◄ / +►►I : Selects station.
1 – 6 : Selects preset station.

iTunes Tagging

• *Only with optional accessory KTC-HR300 tuner connected.*

Pressing and holding 🔍 while "TAG" is lit saves song's information.

The saved songs will then show up in a playlist called "Tagged" in iTunes the every next time you sync your iPod to your computer. So then you just need to click and then easily buy and download the song you were tagging directly from the Apple iTunes Music Store.

Adjust [SETTINGS] mode settings

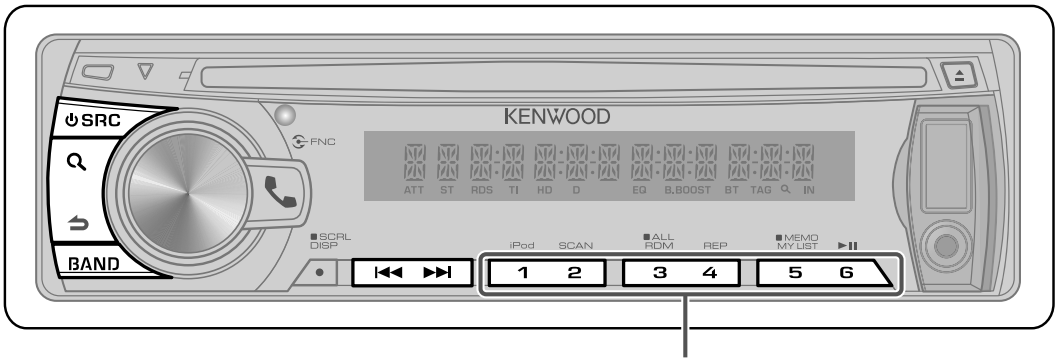
While listening to the radio...

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	Selects the tuning mode for I◄◄ / ►►I buttons. **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 **[NORM]** is selected for **[PRESET TYPE]**.) (page 5)
RECEIVE MODE	**AUTO *:** Automatically tunes to analog broadcast when there is no digital broadcast. ; **DIGITAL:** Digital broadcasts only. ; **ANALOG:** Analog broadcasts only.
TAG MEMORY	Only with optional accessory KTC-HR300 connected. **##/50:** Displays the tag memory usage of HD Radio receiver. Up to 50 tags can be registered to this unit.

Satellite Radio Tuner Control

Preparation : Only with the optional accessory Satellite radio tuner connected.



■ Press and hold for about 2 seconds to memorize the current channel.
■ Press briefly to recall memorized channel.

1 Press ⏻ **SRC** to select "SIRIUS" or "XM".
2 Press **BAND** repeatedly to select a band (SR1/ SR2/ SR3/ SR4 ; XM1/ XM2/ XM3/ XM4).
3 Press ⏮ / ⏭ to search for a channel.

■ You need to register to the service provider to receive the service by Satellite Radio. Consult the service provider if "CALL … TO SUBSCRIBE" appears.
■ The radio may take a little time to start receiving after you select the Satellite Radio source.
■ If the signal reception fails, "ACQUIRING SIGNAL"/ "NO SIGNAL" appears.

Category and Channel Search

1 Press 🔍 to enter Category and Channel Search mode.
2 Turn the volume knob to select a category, then press to confirm.
3 Turn the volume knob to select a channel, then press to confirm.

■ To return to the category select, press ⮌.
■ To cancel the Category and Channel Search mode, press and hold ⮌.

Channel Scan

1 Press and hold 🔍 to start Channel Scan.
Every receivable channel is checked for 10 seconds.
2 Press 🔍 to receives the current channel.

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

1 Press **DIRECT** to enter Direct Access Tuning mode.
"– – –" appears.
2 Press the number buttons to enter the channel number.
3 Press ⏮ / +⏭ to search for the channel.

■ To cancel the Direct Access Tuning mode, press ⮌.
■ If you make no button operation for 10 seconds, the Direct Access Tuning mode is automatically canceled.
■ If you cannot receive any signal in the input Channel due to bad conditions on radio wave or other such problems, "ACQUIRING SIGNAL"/ "NO SIGNAL" appears.

Using the remote controller (RC-405)

#FM+ : Selects band.
⏮ / +⏭ : Selects channel.
1 – 6 : Selects preset channel.

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	Selects the tuning mode for I◄◄ / ►►I buttons. **CHANNEL *:** Normal manual seeking control. ; **PRESET:** Search in order of the channels in the Preset memory
ESN WATCH	**ESN=:** Displays the Electronic Serial Number of satellite radio.

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 3 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 BOOST	**B.BOOST LV1 */ B.BOOST LV2:** Selects your preferred bass boost level. ; **OFF:** Cancels.
SYSTEM Q	**NATURAL */ USER/ ROCK/ POPS/ EASY/ TOP40/ JAZZ/ GAME:** Selects a preset sound mode suitable to the music genre. (Selects **[USER]** to use the customized bass, middle, and treble settings.)
BASS ADJUST	KDC-X695/ KDC-X395 only:
BASS CTR FRQ	**40/ 50/ 60/ 70/ 80/ 100 */ 120/ 150:** 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	KDC-X695/ KDC-X395 only:
MID CTR FRQ	**0.5K/ 1.0K/ 1.5K/ 2.0K *:** Selects the center frequency.
MID LEVEL	**–8 — 0 * — +8:** Adjusts the level.
MID Q FACTOR	**1.00 */ 2.00:** Adjusts the quality factor.
TRE ADJUST	KDC-X695/ KDC-X395 only:
TRE CTR FRQ	**10.0K/ 12.5K */ 15.0K/ 17.5K:** Selects the center frequency.
TRE LEVEL	**–8 — 0 * — +8:** Adjusts the level.
BASS LEVEL	KDC-BT648U/ KDC-348U only:
MID 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.)
TRE LEVEL	
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 FRONT	**THROUGH *:** All signals are sent to the front speaker. ; **40**/**60**/80/100/ 120/150/180/**220** **(HZ):** Frequencies lower than the specified value are cut off. (Underlined: KDC-X695/ KDC-X395 only)
HPF REAR	**THROUGH *:** All signals are sent to the rear speaker. ; **40**/**60**/80/100/ 120/150/180/**220** **(HZ):** Frequencies lower than the specified value are cut off. (Underlined: KDC-X695/ KDC-X395 only)
LPF SUBWOOFER	**THROUGH *:** All signals are sent to the subwoofer. ; **50**/60/80/**100**/120 **(HZ):** Frequencies higher than the specified value are cut off. (Underlined: KDC-X695/ KDC-X395 only)

Item	Selectable setting (Preset: *)
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]**.)
SUPREME SET	**ON *:** Creates realistic sound by interpolating the high-frequency components that are lost in AAC/ MP3/ WMA audio compression. ; **OFF:** Cancels. (Selectable only when playback an AAC/ MP3/ WMA disc or a USB device, except iPod.)
VOLUME OFFSET	**–8 — 0 * — +8** (for AUX) **; –8 — 0 *** (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, **[BASS ADJUST/ MID ADJUST/ TRE ADJUST]**.
- **[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	**AUX */ TV/ VIDEO/ GAME/ PORTABLE/ DVD:** 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.)
TIME SYNC	**ON:** Synchronizes the Radio Data System station time data and the unit's clock. ; **OFF *:** Cancels.
DISPLAY	
DIMMER SET	**ON:** Dims the display illumination. ; **OFF *:** Cancels.
TEXT SCROLL	**AUTO */ ONCE:** Selects to scroll the display information automatically, or scroll only once. ; **OFF:** Cancels.
BT DVC STATUS	You can display the connection status, signal strength, and battery level of cell-phone. **HF-CON:** Connection status for cell-phone. ; **AD-CON:** Connection status for BT Audio. ; **BATT:** Battery level of cell-phone. ; **SIGNAL:** Signal strength of cell-phone.
TUNER SET	**TI:** Selectable only if any source other than tuner source is selected. (For details, see page 8.)

Installation/connection

Part list:

Ⓐ Faceplate .....(×1)
Ⓑ Escutcheon .....(×1)
Ⓒ Mounting sleeve.....(×1)
Ⓓ Wiring harness .....(×1)
Ⓔ Removal tool.....(×2)
Ⓕ Flat head screw (for Nissan cars).....(×4)
Ⓖ Round head screw (for Toyota cars).....(×4)
Ⓗ Microphone (3 m) (KDC-X695 only) .....(×1)

Basic procedure

1. Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.
2. Make proper input and output wire connections.
   ➡ <Wiring connection> (page 32)
3. Install the unit to your car.
   ➡ <Installing the unit> (page 33)
4. Reconnect the ⊖ terminal of the car battery.
5. Reset the unit. (page 4)

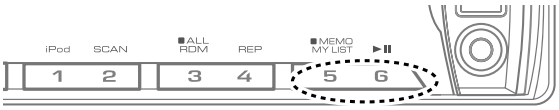
Warning

- 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 installation.
- 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 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 wire to a power source with a constant voltage supply, 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 unit is installed, 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 to cause a short circuit, then replace the old fuse with one that has the same rating.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ 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 drop 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 too strong signal.

About Bluetooth unit (Optional: KDC-X395/ KDC-348U)

■ This unit supports KCA-BT300 or KCA-BT200.
■ Plugging a KCA-BT300/ KCA-BT200 into this unit will enable BT audio.
– Selecting Bluetooth Audio source
Press ⏻ **SRC** to select the "BT AUDIO EXT".
– To pause/resumes playback, press number button **6 (►II)**.
– To selects track, press I◄◄ or ►►I.
■ Set the Type Switch on KCA-BT300/ KCA-BT200 as follows:
1: OFF, 2: OFF, 3: OFF

About Satellite Radio tuner (Optional)

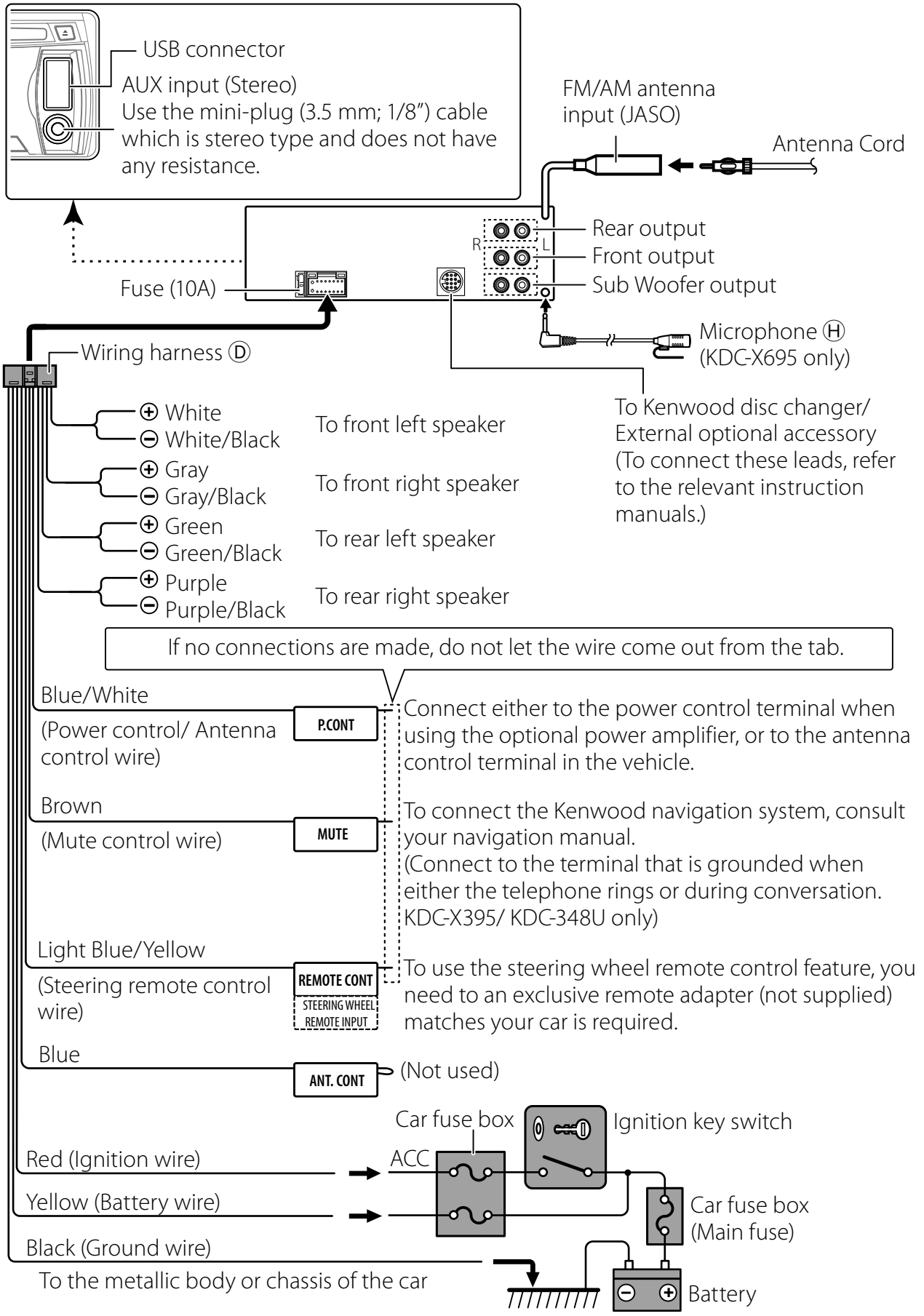
■ This unit supports Satellite Radio tuners which are released by SIRIUS and XM.
■ Refer to the instruction manual of Satellite radio tuner.

HD Radio™ Tuners that can be connected to this unit

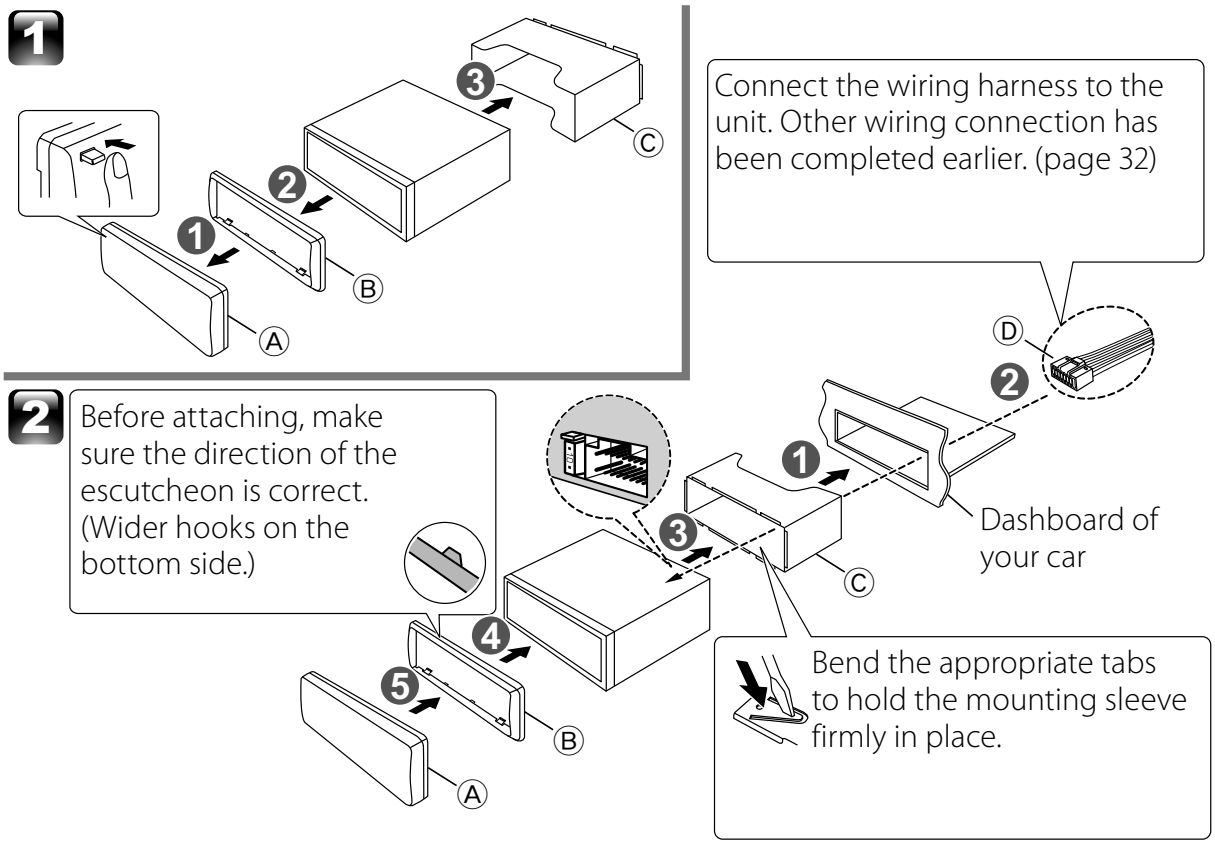
• KTC-HR300 • KTC-HR200 • KTC-HR100TR

⚠ 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

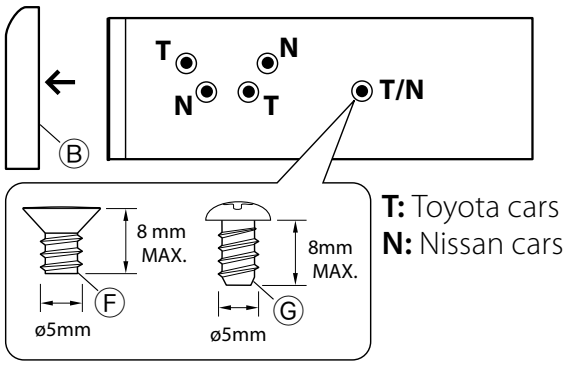


Installing the unit



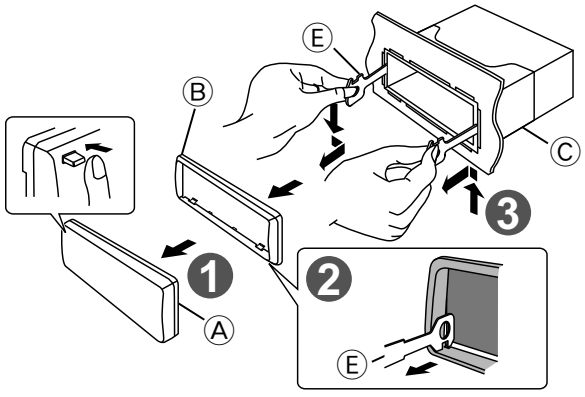
Installing without using the mounting sleeve (Japanese car)

1 Remove the mounting sleeve and escutcheon Ⓑ 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.



Removing the unit

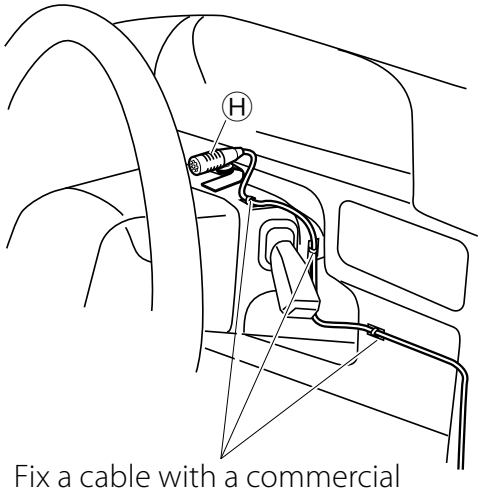
1 Detach the faceplate Ⓐ.
2 Engage the catch pin on the removal tools Ⓔ into the holes on both sides of the escutcheon Ⓑ, then pull it out.
3 Insert the removal tools Ⓔ deeply into the slots on each side, then follow the arrows instructions as shown on the right.



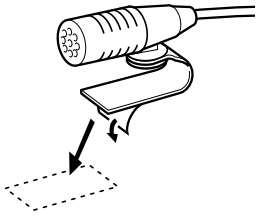
Installation the Microphone Unit (KDC-X695 only)

1 Check the installation position of the microphone Ⓗ.
2 Remove oil and other dirt from the installation surface.
3 Install the microphone.
4 Wire the microphone cable up to the hands-free box with it secured at several positions using tape or the like.

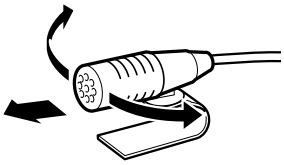
■ Install the microphone as far away as possible from the cell-phone.



Fix a cable with a commercial item of tape.



Peel the release coated paper of double-face adhesive tape to fix on the place shown above.



Adjust the direction of the microphone to the driver.

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 77" or "ERROR 99" appears.	The unit is malfunctioning for some reason. Press the reset button on the unit. If the "ERROR 77"/ "ERROR 99" code does not disappear, consult your nearest service center.

Symptom	Remedy/Cause
"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" or "ERROR 15" appears.	The connected USB device contains no playable audio file. / Media was played that does not have data recorded that the unit can play.
"NA DEVICE" appears.	Connect a supported USB device, and check the connections.
"USB ERROR" appears.	Remove the USB device, turn the unit off, then turn it on again. If the unit still showing the same display, try to connect another USB device.
"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. **[MIC GAIN]**, **[NR LEVEL]** and **[EC LEVEL]** of <Bluetooth Setup> (page 21).
No beep is heard at reception of an incoming call.	No beep is heard depending on the type of your cell-phone. The **[CALL BEEP]** of <Bluetooth Setup> (page 21) is set ON.
Voice is not recognized.	■ The vehicle window is open. If the surrounding noise is large, voice cannot be recognized properly. Close the vehicle windows to reduce noise. ■ Small voice. If voice is too small, it cannot be recognized properly. Speak into the microphone a little more loudly and naturally. ■ 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.
"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.
"NO ENTRY" appears.	The cell-phone has not been registered (pairing).
"HF DISCONCT" appears.	The unit cannot communicate with the cell-phone.

Continued to next page

Symptom	Remedy/Cause
"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.
"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 MARCHING" appears.	The voice tag is wrong. Voice cannot be recognized because of an unregistered voice tag, etc.
"TOO SOFT" appears.	Voice is too small and cannot be recognized.
"TOO LOUD" appears.	Voice is too large to be recognized.
"TOO LONG" appears.	The word or utterance is too long to be recognized.
"NO PHONEBOOK" appears.	Data is not contained in the phone book.
"NO MESSAGE" appears.	No short message in In Box.
"NO RECORD" appears.	The voice tag is not registered in the phone book.
"MEMORY FULL" appears.	The number of voice tags reaches the maximum number to be registered in the phone book.
"NO VOICE" appears.	No call.
The sound from the Bluetooth audio player is discontinuous.	■ Another Bluetooth device is affecting the Bluetooth communication. Turn off another Bluetooth device. Move another Bluetooth device away from this unit. ■ Another Bluetooth device or profile is used for communication. The downloading of the Phone book or the SMS disconnects the sound.

HD Radio/ SIRIUS/ XM

Symptom	Remedy/Cause
"MEMORY FULL" appears.	The tag memory of HD Radio receiver is FULL.
"iPod FULL" appears.	The iPod memory is FULL.
"NO TAG FNC" appears.	iPod which does not support the tag memory is connected.
"TAG ERROR" appears.	The procedure is not registered to TAG Memory function
"N/A CHANNELS" appears.	No receivable channel and category.
"NO ACCESS" appears.	The procedure preset with mixed preset memory function cannot be available. The preset content may not be recalled depending on the selected band or source.

Specifications

FM tuner section

Frequency range (200 kHz space):
87.9 MHz — 107.9 MHz
Usable sensitivity (S/N= 26 dB):
11.2 dBf (1 µV/75 Ω)
Quieting sensitivity (DIN S/N = 46 dB):
19.2 dBf (2.5 µV/75 Ω)
Frequency response (±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
Usable sensitivity (S/N= 20 dB): 31 dBµ (36 µV)

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 (±1 dB): 20 Hz — 20 kHz
Total harmonic distortion (1 kHz):
KDC-X695/KDC-X395: 0.008 %
KDC-BT648U/KDC-348U: 0.01 %
Signal-to-Noise ratio (1 kHz):
KDC-X695/KDC-X395: 110 dB
KDC-BT648U/KDC-348U: 105 dB
Dynamic range: 93 dB
AAC decode: AAC-LC ".m4a" files (KDC-BT648U/ KDC-X695 only)
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: 500 mA
File system: FAT16/ 32
AAC decode: AAC-LC ".m4a" files (KDC-BT648U/ KDC-X695 only)
MP3 decode: Compliant with MPEG-1/2 Audio Layer-3
WMA decode: Compliant with Windows Media Audio

Bluetooth section (KDC-BT648U/ KDC-X695 only)

Technology: Bluetooth Ver. 2.0 Certified
Frequency: 2.402 – 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),
HSP (Headset Profile),
OPP (Object Push Profile),
PBAP (Phonebook Access Profile),
SYNC (Synchronization Profile)

Audio section

Maximum output power: 50 W × 4
Full bandwidth power (at less than 1 % THD):
22 W × 4
Speaker impedance: 4 Ω — 8 Ω
Tone action:
Bass: 100 Hz ±8 dB
Middle: 1 kHz ±8 dB
Treble: 12.5 kHz ±8 dB
Preout level / load (CD):
KDC-X695/KDC-X395: 4,000 mV/ 10 kΩ
KDC-BT648U/KDC-348U: 2,500 mV/ 10 kΩ
Preout impedance: ≤ 600 Ω

Auxiliary input section

Frequency response (±3 dB): 20 Hz — 20 kHz
Input maximum voltage: 1,200 mV
Input impedance: 10 kΩ

General

Operating voltage:
KDC-BT648U/KDC-X695: (10.5 V — 16 V allowable):
14.4 V
KDC-X395/KDC-348U: (11 V — 16 V allowable):
14.4 V
Maximum current consumption: 10 A
Installation size (W × H × D):
182 mm × 53 mm × 160 mm
(7-3/16" × 2-1/16" × 6-5/16")
Weight: 2.9 lbs (1.3 kg)

Subject to change without notice.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

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 may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. 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 is connected.
- Consult the dealer or an experienced radio/TV technician for help.

- Contains Transmitter Module
  FCC ID : RKXCK5000NVIA
- Contains Transmitter Module
  IC : 5119A-CK5000NVIA

IC (Industry Canada) Notice

Operation is subject to the following two conditions:

(1) This device may not cause interference, and

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

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specification were met.

Note de 'IC (Industrie Canada

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes:

(1) Il ne doit pas causer d'interférence, et

(2) l'utilisateur doit accepter tout brouillage, y compris les interférences pouvant compromettre le fonctionnement de cet appareil.

L'expression "IC: " avant le numéro d'homologation/enregistrement signifie seulement que les spécifications techniques d'Industry Canada ont été respectées.

⚠CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

Kenwood Corporation
2967-3, ISHIKAWA-MACHI,
HACHIOJI-SHI
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS N0.21 CFR 1040. 10, CHAPTER 1, SUBCHAPTER J.

Location : Top Panel

KENWOOD

MILITARY

Units purchased through the U.S.A. military exchange service overseas may be serviced under warranty in the continental U.S.A., subject to the following conditions.
1) The original warranty is in effect.
2) Proof of purchase is provided to the servicer.

WARRANTY FOR MILITARY MARKET

Kenwood corporation is proud of the quality and workmanship of its audio equipment. This unit has been properly designed, tested and inspected before it was shipped to you. If properly installed and operated in accordance with instructions furnished, it should give you an optimum reliable performance.

WARRANTY PERIOD

This product is warranted for a period of (1) year from the date of the original purchase.

SCOPE OF WARRANTY

Except as specified below, this warranty covers all defects in materials and workmanship of the Kenwood brand products.

During the warranty period, any authorized Kenwood Service Center in the military market listed in the back of this warranty card will provide you free-of-charge both parts and labor required to correct any defect in materials or workmanship.

The following are not covered by this warranty.
1. Voltage conversions.
2. Periodic check-ups which do not disclose any defect covered by the warranty.
3. Cabinets, grilles, other exterior finishes, belts, tape heads, and other non-durable parts and accessories.
4. Units on which the serial number has been effaced, modified or removed.
5. Installation and/or removal charges.
6. Damaged magnetic tapes.
7. House call charges for any repairs.
8. Shipping or delivery charges to or from an authorized Kenwood Service Center.
9. This warranty will not cover any failure that is due to any of the following conditions in accordance with the visual inspection of the authorized Kenwood Service Center:

* Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts.
* Misuse, abuse, neglect, unauthorized product modification or failure to follow instructions contained in the Owner's Manual.
* Accidental or intentional damages.
* Repairs or attempted repairs by an unauthorized agency. (All repairs must be performed at an authorized Kenwood Service Center.)
* Damages or deteriorations caused during shipment (Claims must be presented to the carrier).
* Damages or deteriorations resulting from removal and/or replacement.

PURCHASER'S RESPONSIBILITIES

As the purchased of a new Kenwood brand product, you are requested to do the following in order to obtain Kenwood warranty service.
1. Retain your sales slip or other evidence of purchase for proving your eligibility for requesting Kenwood warranty service.
2. Make your unit available to an authorized Kenwood Service Center in the military market for inspection and approved warranty service, or ship your unit in its original carton box or equivalent, fully insured and shipping charges prepaid, to the authorized Kenwood Service Center.

LIMITATION OF IMPLIED WARRANTIES

Any and all implied warranties, including warranties of merchantability and fitness for a particular purpose, shall be limited in duration to the length of this warranty.

EXCLUSION OF CERTAIN DAMAGES

KENWOOD's liability for any defective product is limited to the repair or replacement of said product, at our potion, and shall not include damages of any kind, whether incidental, consequential or otherwise, expect to the extent prohibited by applicable law.

KENWOOD AUTHORIZED SERVICE CENTERS IN MILITARY MARKET

JAPAN:
Yokota
Kenwood Rep,; c/o
Yokota BX, JAAX AAFES-PAC,
APO San Francisco 96328

Zama
Kenwood Rep,; c/o
Zama PX, JAAX AAFES-PAC,
APO San Francisco 96343

Misawa
Kenwood Rep,; c/o
Misawa BX, JAAX AAFES-PAC,
APO San Francisco 96519

Yokosuka
Kenwood Rep,; c/o
A-33, Yokosuka NEX No. 260-010
FPO Seattle 98760

Atsugi
Kenwood Rep,; c/o
Atsugi NEX No. 260-020 FPO Seattle 98767

Iwakuni
Kenwood Rep,; c/o
Marine Corps Exchange, Marine Corps Air Station,
FPO Seattle 98764

Sasebo
Sasebo NEX;
Navy Exchange 260-040
F.A. Box 115 FPO Seattle 98766

Okinawa
Kenwood Rep,; c/o
OWAX, AAFES-PAC, APO San Francisco 96230

KOREA:
Kenwood Rep,; c/o
KOAX Repair Shop, AAFES-PAC
DD-Camp Market, APO San Francisco 96488

GUAM:
Kenwood Rep,; c/o
Guam NEX No. 230-010,
FPO San Francisco 96630
Kenwood Rep,; c/o
GUAX, AAFES-PAC, APO San Francisco 96334

U.S.A.:
Hawaii
Kenwood Factory Service
99-994 Iwaena St., Aiea, Hawaii 96701

Alaska
Vista Radio TV,;
861 East Loop Road, Anchorage, Alaska 99501
Anchorage Commercial Electronics, Inc.;
1450 East 9th Ave., Anchorage, Alaska 99501

In The Continental U.S.A.
For Nearest Authorized Service Center;
Tel: 1-800-536-9663

Kenwood Service U.S.A.
Kenwood Factory Service;
P.O. Box 22745, 2201 East Dominguez Street,
Long Beach, California 90801-5745
Tel: (310) 639-5300

EUROPE:
Please inquire at the military resale outlets where you bought your Kenwood products, or
KENWOOD ELECTRONICS DEUTSCHLAND GMBH:
Rembrücker-Str. 15, 63150 Heusenstamm, Germany
Tel.: 49-06104-69010

Dear Customer,

Thank you for purchasing this kenwood product. As mentioned in the pages of this booklet, our warranty is only valid in the countries listed. If your country is not listed please contact your retailer for information on warranty procedure, or write to:

KENWOOD Corporation Customer Information Center
1-16-2, Hakusan, Midori-ku, Yokohama-shi, Kanagawa, 226-8525 Japan

KENWOOD

Warranty Card

Identification du produit
Modelo do aparelho e numero de série
Model number & serial number

Revendeur & cachet
Nome da loja e carimbo
Dealer & stamp

Date d'achtat
Data da compra
Purchase date

Nom & adresse du client
Nome e endereço do cliente
Name & address of customer

Attention:
This card and receipt (or invoice) are necessary to purchase a new panel in case of theft or damage.

Attention:
Vous aurez besoin de cette carte et du reçu (ou de la facture) pour acheter un nouveau panneau en cas de vol ou d'endommagement.

Atenção:
Em caso de dano ou perda do painel frontal, este Certificado de Garantia e a Nota Fiscal de compra serão requisitados para a aquisição de um novo painel.

© B46-0812-00/01 (K) (10/02)

U.S.A.

KENWOOD USA CORPORATION

This warranty will be honored only in the U.S.A.

KENWOOD LIMITED WARRANTY FOR CAR STEREO COMPONENTS

HOW LONG IS THE WARRANTY

Kenwood U.S.A. Corporation ("Kenwood") warrants this product for a period of one (1) year from the date of original purchase.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in material and workmanship in Kenwood car stereo components. The following are not covered by the warranty:

1. Any product which is not distributed in the U.S.A. by Kenwood or which is not purchased in the U.S.A. from an authorized Kenwood car stereo dealer or an automobile dealer, unless the product is purchased through the U.S.A Military Exchange Service.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
   a. Any shipment of the product (claims must be presented to the carrier).
   b. Installation or removal of the product.
   c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product.
   d. Repair or attempted repair by anyone not authorized by Kenwood.
   e. Any other cause which does not relate to a product defect.

WHO IS PROTECTED

This warranty is enforceable only by the original purchaser.

WHAT WE WILL PAY FOR

We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

HOW TO OBTAIN WARRANTY SERVICE

If your KENWOOD product ever needs service:

1. Take or ship it to any KENWOOD Authorized Service Center in the U.S.A. along with & complete description of the problem. (if you are uncertain as to whether a Service Center is authorized, please call **1-800-KENWOOD** for the nearest Service Center. **1-800-536-9663**).
2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States.
3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.

LIMITATION OF IMPLIED WARRANTIES

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES

KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:

1. INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below:

KENWOOD USA CORPORATION
P.O Box 22745, 2201 East Dominguez Street, Long Beach, CA 90801-5745
Tel: (310) 639-5300

BRASIL

JVC KENWOOD DO BRASIL COMERCIO DE ELECTRONICOS LTDA.

O fabricante garante o produto identificado na Nota Fiscal de venda ao consumidor contra qualquer defeito de fabricação ou de matéria-prima durante o período de garantia. Esta garantia é válida no território brasileiro, condicionado ao uso correto do aparelho conforme o manual de instruções.

PERÍODO DE GARANTIA

Este produto é garantido pelo prazo de 01 (um) ano, incluindo o período estabelecido por lei, a partir da data de aquisição, comprovada mediante a apresentação da respectiva Nota Fiscal de venda ao consumidor final.
Eventuais reparos realizados no produto durante o período de garantia não implicam na dilatação do seu prazo.

EXCLUSÃO DA GARANTIA

(a) Produtos com o número de série ou certificado de garantia rasurados, adulterados ou ilegíveis;
(b) Defeitos resultantes de acidentes (quedas, batidas e etc), uso em desacordo com o manual de instruções, má utilização, ligação à fonte de tensão diferente da especificada no Manual de Instruções, modificações não autorizadas;
(c) Danos causados por agentes da natureza (Ex: Chuvas, raios, maresia, enchentes e etc);
(d) Defeitos ou danos em decorrência de consertos realizados por pessoas não autorizadas;
(e) Defeitos ou danos resultantes do uso de peças ou dispositivos não conformes às especificações da Kenwood;
(f) Danos ou deteriorações aos acabamentos externos, partes cosméticas, cabos, adaptadores, antenas, fitas, cabeças gravadoras, CDs ou danos causados por pilhas defeituosas ou com vazamento;
(g) Defeitos ou danos devido ao transporte (reclamações devem ser feitas junto à empresa transportadora);
(h) Qualquer outra causa que não esteja relacionada a defeitos de matéria-prima e de fabricação;
(i) Danos causados por tentativa de roubo ou furto;
(j) Danos causados por uso de CDs de má qualidade.

CONSERTO EM GARANTIA

É indispensável a apresentação deste Certificado de Garantia devidamente preenchido, acompanhado da respectiva Nota Fiscal de compra do produto.

O QUE NÃO É COBERTO PELA GARANTIA

Instalação e remoção do produto, despesas de frete, seguro e embalagem são de responsabilidade do proprietário.

JVC KENWOOD DO BRASIL COMERCIO DE ELECTRONICOS LTDA.
Tel: 0800-7717270
www.kenwood.com.br

CANADA

KENWOOD ELECTRONICS CANADA INC.

KENWOOD WARRANTY

KENWOOD ELECTRONICS CANADA INC. (hereinafter called "KENWOOD"), gives the following written warranty to the original customer of each new Kenwood product distributed in Canada by KENWOOD and purchased from a dealer authorized by KENWOOD.

KENWOOD warrants that each new Kenwood product, under normal use, is free from any defects, subject to the terms and conditions set forth below. If a defect should occur within the warranty period, repairs will be made free of charge for parts and labour when such defects are determined by KENWOOD or its' authorized service centres to be attributable to faulty materials or workmanship at time of manufacture. Please contact KENWOOD to confirm if a dealer or service centre is authorized by KENWOOD.

WARRANTY PERIOD

This Kenwood product is warranted for parts and labour for a period of one (1) year from the date of original purchase, lease or rental, except for products which are used in a professional or commercial application, which are warranted for a period of ninety (90) days for parts and labour and are subject to the terms and conditions of the warranty.

WARRANTY EXCLUSIONS

This warranty excludes:

(a) Products purchased in a foreign country or purchased in Canada and taken to a foreign country.
(b) Products purchased from a dealer not authorized by KENWOOD.
(c) Products with the serial number defaced, altered or missing.
(d) Periodic check-ups which do not disclose any defects covered by this warranty.
(e) Defects resulting from disaster, accident, abuse, misuse, lightning, power surges, neglect or lack of periodic maintenance, unauthorized modification or failure to follow instructions in the owner's manual.
(f) Defects or damage as a result of repairs performed by a person or party not authorized by KENWOOD.
(g) Defects resulting from the use of parts or devices that do not conform to KENWOOD specifications.
(h) Damage or deterioration occurring to any exterior finishes, cosmetic parts, tape heads, adaptors, antennas, cables, tapes, discs or faults or damage caused by defective or leaking batteries.
(i) Defects or damage occurring during shipping (claims should be presented to the shipping company).
(j) Product voltage and /or line frequency conversions.
(k) Product installation or removal charges.

TO OBTAIN WARRANTY SERVICE

Should your Kenwood product require warranty service, deliver it to any authorized KENWOOD service centre and present the original copy of your bill of sale and this warranty card as proof of warranty, or send your product fully insured and freight prepaid to the nearest authorized KENWOOD service centre. To avoid possible shipping damage, make sure the product is properly packed. Include a copy of your original bill of sale and this warranty card as proof of warranty along with your name, home and /or work telephone number(s), a complete return address and a detailed description of the fault(s). Products repaired within warranty will be returned freight prepaid to destinations within Canada. The customer is responsible for all freight and related costs for the return of product(s) to destinations outside Canada.

ENTIRE WARRANTY

This warranty constitutes the entire written warranty given by KENWOOD. No person, party, dealer or service centre or their agents or employees are authorized to extend or enlarge this warranty on behalf of KENWOOD by any written or verbal statement or advertisement or promotion, including any extended warranty program or plan that may be offered by the dealer or service centre, unless approved in writing by KENWOOD.

DISCLAIMER

KENWOOD disclaims any responsibility for loss of time or use of the product or any other indirect, incidental or consequential damage to other products or goods, inconvenience or commercial loss.

NOTICE TO CONSUMER

The provisions contained in this written warranty are not intended to limit, modify, take away, disclaim or exclude any warranties or rights you may have which are set forth in any applicable provincial or federal laws or legislation.

IMPORTANT

This warranty card by itself is not considered by KENWOOD as a valid proof of purchase. When applying for warranty repairs, you must present the original copy of your bill of sale and this warranty card as proof of warranty, so we recommend that they be kept in a safe place, should they be required in the future.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
Tel.: (905) 670-7211
Fax: (905) 670-7248

GARANTIE KENWOOD

KENWOOD ELECTRONICS CANADA INC. (ci-après appelée "KENWOOD"), donne par écrit la garantie suivante à l'acheteur original de chaque nouveau produit Kenwood distribué au Canada par KENWOOD et acheté à un concessionnaire autorisé par KENWOOD.

KENWOOD garantit, sous réserve des termes et des conditions énoncés ci-dessous, que chaque nouveau produit Kenwood, dans des conditions d'emploi normales, est exempt de tous défauts. Si l'un défaut se produit pendant la période de garantie, KENWOOD s'engage à assumer le coût des pièces défectueuses et de la main-d'oeuvre nécessaires pour effectuer les réparations pourvu que de tels défauts sont attribuables à des pièces défectueuses employées lors de la fabrication du produit Kenwood ou à la main-d'oeuvre tel qu'établi par KENWOOD ou par l'un de ses centres de service autorisés. Appelez KENWOOD pour vérifier si un concessionnaire ou un centre de service est autorisé par KENWOOD.

PÉRIODE DE GARANTIE

Les pièces et la main-d'oeuvre nécessaires pour la réparation des produits Kenwood sont garanties pendant la période d'un (1) an à compter de la date d'achat, de bail ou de location originale, sauf dans les cas où les produits Kenwood sont employés dans un but professionnel ou commercial, où la garantie des pièces et de la main-d'oeuvre demeure en vigueur pendant une période de quatre-vingt-dix (90) jours sous réserve des termes et des conditions de la garantie.

EXCLUSIONS DE GARANTIE

Cette garantie ne couvre pas:

(a) les produits achetés à l'étranger ou achetés au Canada et transportés à l'étranger;
(b) les produits achetés à un concessionnaire non autorisé par KENWOOD;
(c) les produits dont le numéro de série manque, a été effacé ou modifié;
(d) les services d'entretien périodiques qui n'indiquent aucun défaut couvert par cette garantie;
(e) les défauts causés par les désastres, les accidents, les abus, les emplois incorrects, les éclairs, les surtensions de courant, les manques de soins ou d'entretiens périodiques, les modifications non autorisées ou les manques de respect du mode d'emploi;
(f) les défauts ou les dommages causés lors de réparations effectuées par une personne ou par une partie non autorisée par KENWOOD;
(g) les défauts causés par l'emploi de pièces ou de dispositifs qui ne se conforment pas aux exigences de KENWOOD;
(h) les finitions extérieures, les pièces cosmétiques, les têtes de bandes, les adaptateurs, les antennes, les câbles, les bandes, les disques endommagés ou dépéris, ni les défauts ou dommages causés par des piles défectueuses ou qui fuient;
(i) les défauts ou dommages qui se produisent pendant l'expédition des produits Kenwood (On devrait déposer de telles réclamations auprès des compagnies de transport);
(j) les conversions de tension et/ou de fréquence du produit;
(k) les frais d'installation ou d'enlèvement du produit.

COMMENT OBTENIR DU SERVICE SOUS GARANTIE

Au cas où un service sous garantie de votre produit Kenwood s'avère nécessaire, veuillez livrer le produit à n'importe quel centre de service KENWOOD et présenter la copie originale du contrat de vente et cette carte de garantie en tant que preuve de garantie ou veuillez faire parvenir votre produit assuré et port payé au centre de service KENWOOD autorisé le plus proche. Pour éviter toutes possibilités de dommages pendant le transport, veuillez bien emballer le produit. Veuillez inclure une copie du contrat de vente original et cette carte de garantie en tant que preuve de garantie aussi bien que votre nom, numéros de téléphone au poste de travail et/ou au domicile, votre adresse et une description détaillée des défauts. Les produits sous garantie réparés seront retournés port payé aux destinations à l'intérieur du Canada. Le consommateur sera responsable de tous frais de transport et d'autres frais qui s'y rapportent pour faire expédier les produits à destinations à l'extérieur du Canada.

L'ENTIÈRE GARANTIE

Cette garantie représente l'entière garantie donnée par écrit par KENWOOD. KENWOOD ne se tient aucunement responsable de toutes extensions ni de toutes augmentations de cette garantie faites ou entreprises par toutes personnes, parties, concessionnaires ou centres de service ou par leurs agents ou employés au nom de KENWOOD au moyen d'affirmations verbales ou écrites, d'annonces ou de promotions, y inclus tous programmes ou plans de garantie étendue que puissent offrir les concessionnaires ou les centres de service, à moins que KENWOOD n'y ait consenti par écrit d'avance.

RENONCIATION

KENWOOD renonce à toutes responsabilités de perte de temps, d'emploi du produit, de tous dommages indirects ou accessoires causés à d'autres produits ou biens, de tous inconvénients ou de toutes pertes commerciales.

AVIS AUX CONSOMMATEURS

Les stipulations contenues dans la présente garantie écrite n'ont pas pour but de limiter, de modifier, de diminuer, de rejeter ni d'exclure d'autres garanties ni droits énoncés dans n'importe quelles lois ou législations provinciales ou fédérales.

IMPORTANT

KENWOOD ne considère pas cette garantie toute seule comme étant une preuve d'achat valide. Lorsqu'on demande du service sous garantie, il faudra présenter la copie originale du contrat de vente aussi bien que cette carte de garantie en tant que preuve de garantie. On recommande de les conserver dans un lieu sûr au cas où elles s'avèreraient nécesaires à l'avenir.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
Téléphone: (905) 670-7211
Télécopieur: (905) 670-7248

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