Safety precaution

⚠ WARNING

To prevent injuries or a fire, take the following precautions:

- Stop the car before operating the unit.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

⚠ CAUTION

- Adjust the volume so that you can hear the sound outside the car. Driving with the volume too high may cause an accident.
- 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.
- If you experience problems during installation, consult your Kenwood dealer.

Before using the this unit for the first time

KDC–X997, KDC–BT955HD, KDC–X897, KDC–BT855U, KDC–X697, and KDC–655U are factory–set to operate in the Demonstration mode initially.

Cleaning the connector

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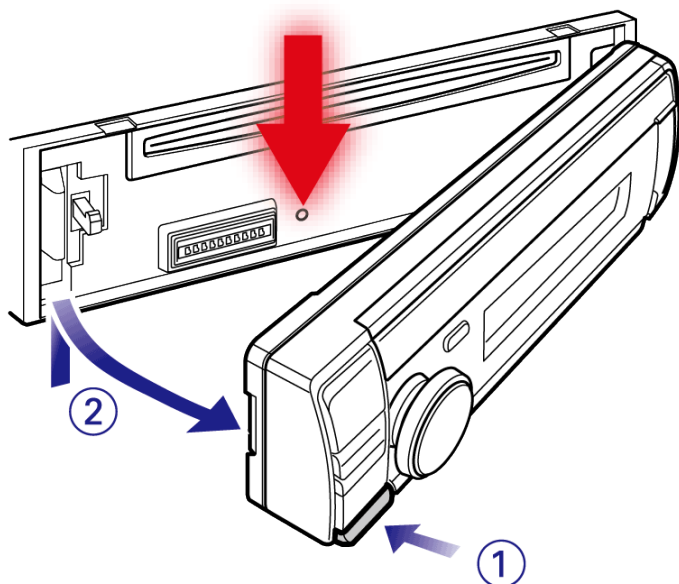

Condensation

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.

How to reset your unit

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

Notes

- When you purchase optional accessories, check with your Kenwood dealer to make sure that they can work with your model and in your area.
- Characters that conform to ISO 8859–1 can be displayed.
- The illustrations of the display and panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the images on the display may be inapplicable.

About the remote controls of KMR-555U

A maximum of 3 remote controls (KCA-RC107MR or KCA-RC55MR; optional accessory) can be used with the KMR-555U. For details on how to use the remote control, refer to the operation manual attached to it.

Regulatory Compliance

⚠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.

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.

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.

⚠CAUTION

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Specifications

FM tuner section

Frequency range (200 kHz step)
: 87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB)
: 9.3dBf (0.8 µV/75 Ω)
Quieting Sensitivity (S/N = 46dB)
: 10.2 dBf (1.13 µV/75 Ω)
Frequency response (±3 dB)
: 30 Hz – 15 kHz
Signal to Noise ratio
: 75 dB (MONO)
Stereo separation
: 45 dB (1 kHz)

Digital FM tuner section (KDC-X997/ KDC-BT955HD)

Frequency range (200 kHz step)
: 87.9 MHz – 107.9 MHz
Frequency response (±3 dB)
: 20 Hz – 20 kHz
Signal to Noise ratio (STEREO)
: 75 dB

AM tuner section

Frequency range (10 kHz step)
: 530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB)
: 28 dBµ (25 µV)

Digital AM tuner section (KDC-X997/ KDC-BT955HD)

Frequency range (10 kHz step)
: 530 kHz – 1700 kHz
Frequency response (±3 dB)
: 40 Hz – 15 kHz
Signal to Noise ratio (STEREO)
: 70 dB

CD player section

Laser diode
: GaAlAs
Digital filter (D/A)
: 8 Times Over Sampling
D/A Converter
: 24 Bit
Spindle speed (Audio files)
: 500 – 200 rpm (CLV)
Wow & Flutter
: Below Measurable Limit
Frequency response (±1 dB)
: 10 Hz – 20 kHz
Total harmonic distortion (1 kHz)
`KDC-X997` `KDC-X897` `KDC-X697`
: 0.008 %
`KDC-BT955HD` `KDC-BT855U` `KDC-655U` `KMR-555U`
: 0.010 %
Signal to Noise ratio (1 kHz)
`KDC-X997` `KDC-X897` `KDC-X697`
: 110 dB
`KDC-BT955HD` `KDC-BT855U` `KDC-655U` `KMR-555U`
: 105 dB
Dynamic range
: 93 dB
MP3 decode
: Compliant with MPEG-1/2 Audio Layer-3
WMA decode

: Compliant with Windows Media Audio
AAC decode
: AAC-LC ".m4a" files

USB interface

USB Standard
: USB1.1/ 2.0 (Full speed)
File System
: FAT12/16/ 32
Maximum Supply current
: DC 5 V ⎓ 1 A
Decode
: MP3, WMA, AAC, WAV

Audio section

Maximum output power
: 50 W x 4
Full Bandwidth Power (at less than 1% THD)
: 22 W x 4
Preout level/ Load (CD)

`KDC-X997` `KDC-BT955HD` `KDC-X897` `KDC-BT855U`
`KDC-X697`
: 4000 mV/10 kΩ

`KDC-655U` `KMR-555U`
: 2500 mV/10 kΩ
Preout impedance
: ≤ 600 Ω
Speaker Impedance
: 4 – 8 Ω
Tone

`KDC-X997`
Band1 : 62.5 Hz ±9 dB
Band2 : 100 Hz ±9 dB
Band3 : 160 Hz ±9 dB
Band4 : 250 Hz ±9 dB
Band5 : 400 Hz ±9 dB
Band6 : 630 Hz ±9 dB
Band7 : 1 kHz ±9 dB
Band8 : 1.6 kHz ±9 dB
Band9 : 2.5 kHz ±9 dB
Band10 : 4 kHz ±9 dB
Band11 : 6.3 kHz ±9 dB
Band12 : 10 kHz ±9 dB
Band13 : 16 kHz ±9 dB

`KDC-BT955HD`
Band1 : 62.5 Hz ±9 dB
Band2 : 160 Hz ±9 dB
Band3 : 400 Hz ±9 dB
Band4 : 1 kHz ±9 dB
Band5 : 2.5 kHz ±9 dB
Band6 : 6.3 kHz ±9 dB
Band7 : 16 kHz ±9 dB

`KDC-X897` `KDC-BT855U` `KDC-X697` `KDC-655U`
`KMR-555U`
Bass : 100 Hz ±8 dB
Middle : 1 kHz ±8 dB
Treble : 12.5 kHz ±8 dB

Bluetooth section (KDC-X997/ KDC-BT955HD/ KDC-X897/ KDC-BT855U)

Version
: Bluetooth Ver. 2.1+EDR Certified
Frequency range
: 2.402 – 2.480 GHz
Output Power
: +4dBm (MAX), 0dBm (AVE) Power Class 2
Maximum Communication range
: Line of sight approx.10m (32.8 ft)
Profiles
: HFP (Hands Free Profile)
: SPP (Serial Port Profile)
: PBAP (Phonebook Access Profile)
: OPP (Object Push Profile)

: A2DP (Advanced Audio Distribution Profile)
: AVRCP (Audio/Video Remote Control Profile)

Auxiliary input

Frequency response (±3 dB)
   : 20 Hz – 20 kHz
Input Maximum Voltage
   : 1200 mV
Input Impedance
   : 10 kΩ

General

Operating voltage
   `KDC–X997` `KDC–BT955HD` `KDC–X897` `KDC–BT855U`
   : 14.4 V (10.5 – 16V allowable)
   `KDC–X697` `KDC–655U` `KMR–555U`
   : 14.4 V (11 – 16V allowable)
Maximum Current consumption
   : 10 A
Installation Size (W x H x D)
   : 182 x 53 x 159 mm
   7–3/16 x 2–1/16 x 6–1/4 inch
Weight
   `KDC–X997` `KDC–BT955HD` `KDC–X897` `KDC–BT855U`
   : 2.9 lbs (1.3 kg)
   `KDC–X697` `KDC–655U` `KMR–555U`
   : 2.7 lbs (1.2 kg)
Specifications subject to change without notice.

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iPod iPhone

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RADIO

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Designed for
Windows
Media™
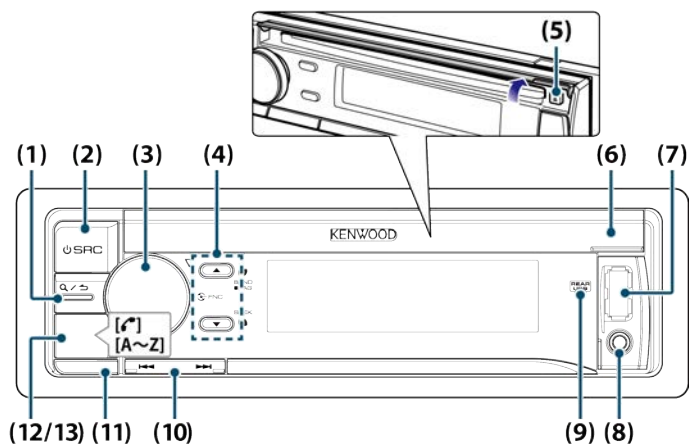
1. [🔍/⤺] button
    When listening to the iPod, audio file, CD, or radio, press this button to enter the search mode.
    In each of the selected modes, press the button to return to the previous item.
2. [SRC] button
    Press this button to enter source select mode. Refer to <Source selection>.
3. [Control] knob (Volume knob)
    In the normal mode, turn the knob to adjust the volume or press the knob to enter the Function setting mode.
    In the Function mode, turn the knob to select an item or press the knob to determine the selection.
4. [▲]/ [▼] button
    Press the button to select an audio file folder or use it as a Likes/ Dislikes button on Aha etc.
    The [▲] button can be used to select broadcast band as well.
5. [⏏] button
    Press the button to eject the disc.
6. Disc slot cover
    When this cover opens upward, the disc insertion slot appears.
7. USB terminal (inside of the cover)
    Connect an iPod or USB device.
8. Auxiliary input (inside of the cover)
    Connect the output of an external device using a stereo mini-jack.
9. REAR USB indicator
    When a USB device or iPod is connected to the USB terminal of the rear, this indicator stays lit. During playback of the connected device, this indicator blinks.
10. [◄◄]/ [►►] button
    Press the button to select a song or station.
11. Release button
    Press the button to detach the faceplate.
12. `KDC-X997` `KDC-BT955HD` `KDC-X897` `KDC-BT855U` [📞] button
    Press the button to make, answer, or disconnect a hands-free call.
13. `KDC-X697` `KDC-655U` `KMR-555U` [A~Z] button
    Press any of (A to Z) button during the Music search mode to enter the alphabet search mode.

3-2. Preparations

Cancel the Demonstration mode

`KDC-X997` `KDC-BT955HD` `KDC-X897` `KDC-BT855U` `KDC-X697`

`KDC-655U`

Cancel the Demonstration mode when you use the unit for the first time after installation.

1. **Press [Control] knob to cancel the Demonstration mode when the message "To cancel DEMO Press the volume knob" appears (approx. 15 seconds).**
2. **Turn [Control] knob to select the "YES", and then press [Control] knob.**

Detaching/ Attaching the faceplate

⚠
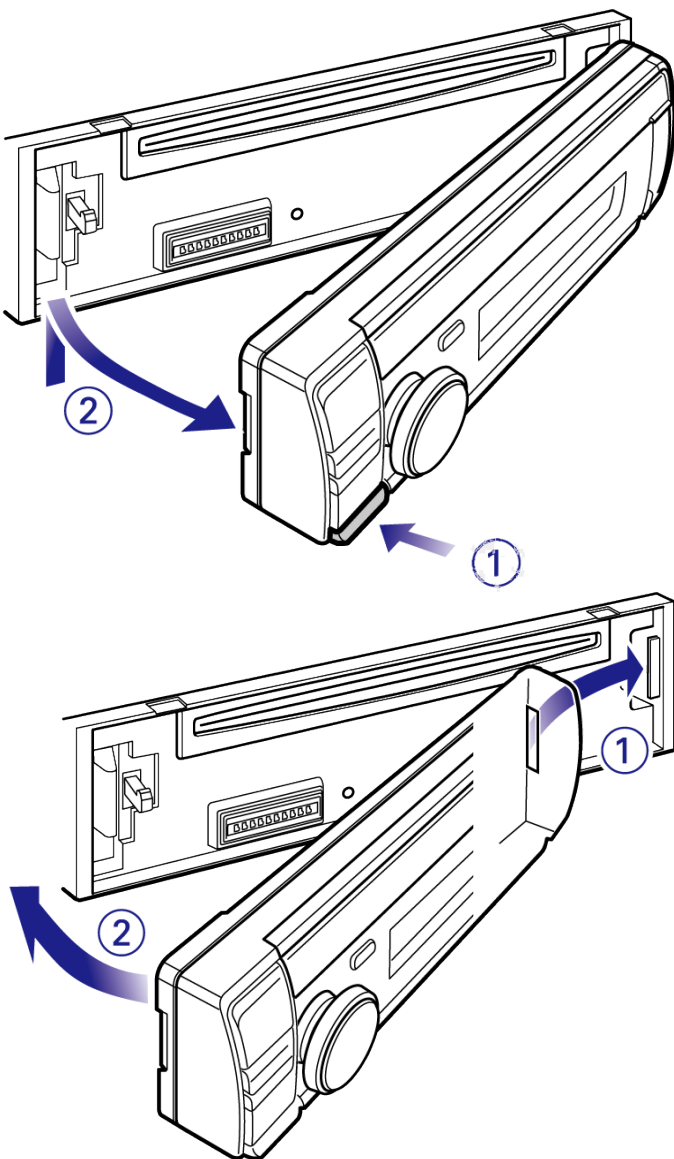
- Remove the faceplate at once after pressing the Release button; otherwise it can fall down due to vibration.
- The faceplate is a precision component of the unit and can be damaged by shocks or jolts.
- Keep the faceplate in its case while detached.
- Do not place the faceplate (and case) in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

How to select the item

For how to select setting items such as a function setting item, see the following example:

Example: Setting the Date format of the display

1. **Press [Control] knob.**
   "Function" appears and enters the Function setting mode.
2. **Select the Date Mode function item**
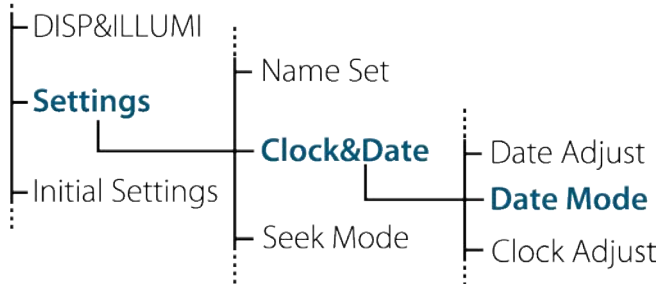
   Turn [Control] knob to select "Settings", and then press [Control] knob.
   Next, turn [Control] knob to select "Clock&Date", and then press [Control] knob.
   Finally, turn [Control] knob to select "Date Mode", and then press [Control] knob.
   To cancel and return to the previous item, press [🔍/↩].
3. **Turn [Control] knob to select a format (7 types), and then press [Control] knob.**
   Returns to the previous item.
4. **Press and hold [🔍/↩].**
   Exits the Function setting mode.

▼ **About the description in this manual**
   ● In this manual, operations performed in steps 2 and 3 are described as follows:
   2. Select "Settings" > "Clock&Date" > "Date Mode" using [Control] knob.
   3. Select a format (7 types) using [Control] knob.

Adjusting the clock

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Settings" > "Clock&Date" > "Clock Adjust" using [Control] knob.**

3. **Set the hour using [Control] knob.**
4. **Set the minute using [Control] knob.**

Exiting from the Function setting mode

Press and hold [🔍/⤴].

General operations

Power

Press [SRC] to turn the power ON.
Press and hold [SRC] to turn the power OFF.

Source selection

1. **Press [SRC].**
   The currently selected source is displayed and enters the Source selection mode.
2. **Select a source using [Control] knob.**

Source	Display
Standby	"STANDBY"
SiriusXM (optional accessory)[1]	"SiriusXM"
HD Radio[2]	"HD RADIO"
Tuner[4]	"TUNER"
USB device connected to front USB terminal	"USB(FRONT)"
USB device connected to rear USB terminal	"USB(REAR)"
iPod connected to front USB terminal[1]	"iPod(FRONT)"
iPod connected to rear USB terminal[1]	"iPod(REAR)"
Pandora® of iPod connected to front USB terminal[1]	"Pandora(FRONT)"
Pandora® of iPod connected to rear USB terminal[1]	"Pandora(REAR)"
Pandora® of device connected via Bluetooth[1][3]	"Pandora"
iHeartRADIO of iPod connected to front USB terminal [1]	"iHeartRADIO (FRONT)"
iHeartRADIO of iPod connected to rear USB terminal [1]	"iHeartRADIO (REAR)"
iHeartRADIO of device connected via Bluetooth[1][3]	"iHeartRADIO"
aha™ of iPod connected to front USB terminal[1][3]	"aha(FRONT)"
aha™ of iPod connected to rear USB terminal[1][3]	"aha(REAR)"
aha™ of device connected via Bluetooth[1][3]	"aha"
Bluetooth audio[3]	"BT AUDIO"
CD[1]	"CD"
Auxiliary Input	"AUX"

[1] This source can be selected only when it can be played.
[2] Function of KDC–X997/ KDC–BT955HD.
[3] Function of KDC–X997/ KDC–BT955HD/ KDC–X897/ KDC–BT855U.
[4] Function of KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U/ KMR–555U.

▼ **Setting the source switching**
- Source switching can be set so that pressing [SRC] switches among sources.

- Source switching can be set so that "Pandora", "iHeartRADIO", "aha", and "AUX" sources can not be selected when not in use.

Volume

Turn [Control] knob.

USB terminal

A USB device or iPod can be connected.
The CA–U1EX (Max. 500mA) or KCA–iP102 (optional accessories) is recommended to connect a USB device or iPod.

Auxiliary input

A portable audio device can be connected with a stereo mini–plug (3.5 mm ø).

4-1. Audio control

You can adjust the audio control items.

1 Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.
3 Select "Audio Control" using [Control] knob.

4. Select a audio control item using [Control] knob.

Display	Audio control item	Range
"SubWoofer Level"	Subwoofer level	–15 — +15 (dB)
"Bass Level"	Bass level	–8 — +8 (dB)
"Middle Level"	Middle level	–8 — +8 (dB)
"Treble Level"	Treble level	–8 — +8 (dB)
"Equalizer PRO"[1]		
"Bass Adjust"		
"Bass Center FRQ"	Bass Center Frequency	60/ 80/ 100/ 200 (Hz)
"Bass Level"	Bass level	–8 — +8 (dB)
"Bass Q Factor"	Bass Q Factor	1.00/ 1.25/ 1.50/ 2.00
"Bass EXT"	Bass Extend	OFF/ ON
"Middle Adjust"		
"Middle Center FRQ"	Middle Center Frequency	0.5/ 1.0/ 1.5/ 2.5 (kHz)
"Middle Level"	Middle level	–8 — +8 (dB)
"Middle Q Factor"	Middle Q Factor	0.75/ 1.00/ 1.25
"Treble Adjust"		
"Treble Center FRQ"	Treble Center Frequency	10.0/ 12.5/ 15.0/ 17.5 kHz
"Treble Level"	Treble level	–8 — +8 (dB)
"Preset Equalizer"	Preset Equalizer curve	"Rock"/ "Pops"/ "Easy"/ "Top40"/ "Jazz"/ "Powerful"/ "Natural"/ "User"[3]
"Bass Boost"	Bass Boost	"OFF"/ "Level1"/ "Level2"/ "Level3"
"Loudness"	Loudness	"OFF"/ "Level1"/ "Level2"
"Balance"	Balance	Left 15 — Right 15
"Fader"	Fader	Rear 15 — Front 15
"SubWoofer"	Subwoofer output	ON/ OFF
"Detailed Settings"		
"HPF"	High Pass Filter	Through/ 100/ 120/ 150 (Hz)
"LPF SubWoofer"	Low Pass Filter	85/ 120/ 160/ Through (Hz)
"SubWoofer Phase"[4]	Subwoofer Phase	Reverse (180°)/ Normal (0°)
"Supreme"[5]	Supreme setting	OFF/ ON
"Audio Preset"	Audio Preset memory[2]	Recall/ Memory
"Volume Offset"	Volume offset	–8 — ±0 (dB) (AUX: –8 — +8)

[1] Function of KDC–X897/ KDC–X697.
[2]
[3] "User": The customized Bass, Middle, and Treble settings are effective.
[4] Displayed only when "LPF SubWoofer" is set to "85"/ "120"/ "160".
[5] Audio file source only
5. Select a value using [Control] knob.

Exiting from the Function setting mode

Press and hold [⚲/⮐].

▼ Adjusting Bass, Middle, and Treble levels

- You can set Bass, Middle, and Treble levels for each source.

Audio preset

You can register the values set the Audio control items.

1 **Set the audio control items**

2. **Select "Audio Control" > "Detailed Settings" > "Audio Preset" > "Memory" using [Control] knob.**

3. **Select "YES" using [Control] knob.**
   "Memory Completed" appears.

Exiting from the Function setting mode

Press and hold [🔍/⤴].

▼ **Number of Audio preset memories that can be stored**
- Register a pair of Audio preset memories. You cannot register them by source.

▼ **When reset**
- When you press the Reset button, audio control values of all sources will be set to the values registered here.

▼ **Audio control items that can be registered**
- The following Audio control items can be registered.
  "Bass Center FRQ"*, "Bass Level", "Bass Q Factor"*, "Bass EXT"*, "Middle Center FRQ"*, "Middle Level", "Middle Q Factor"*, "Treble Center FRQ"*, "Treble Level", "SubWoofer Level", "HPF", "LPF SubWoofer", "SubWoofer Phase"
  *KDC–X897, KDC–X697 only

Audio preset recall

1 **Press [SRC] and select a recall source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.

3. **Select "Audio Control" > "Detailed Settings" > "Audio Preset" > "Recall" using [Control] knob.**

4. **Select "YES" using [Control] knob.**
   "Recall Completed" appears.

Exiting from the Function setting mode

Press and hold [/].

5-1. Audio control

You can adjust the audio control items.

1. **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Audio Control" using [Control] knob.**

4. **Select a audio control item using [Control] knob.**

Display	Overview
"SubWoofer Level"	You can set subwoofer level. **"–15" — "0" — "+15"**
"Preset Equalizer"[1][5]	Select from among preset equalizer curves to set the sound quality. **"User"[2]**/ **"Natural"**/ **"Rock"**/ **"Pops"**/ **"Easy"**/ **"Top 40"**/ **"Jazz"**/ **"Powerful"**/ **"iPod"(During iPod source only)**
"Manual Equalizer""[1][5]	Set the equalizer curve manually. **Refer to** <5–2. Manual equalizer control>.
"Pro Setup"	
"DSP Set"	Turn on/off the DSP function. **"Bypass"**: Disables the DSP function. **"Through"**: Enables the DSP function.
"Car Type"[5]	To get clear sound, set the sound environment according to the location and size of physically installed speakers with reference to the followings:
"Speaker Setting"[5]	
"X'Over"[5]	
"DTA Settings"[5]	
"Sound Enhancements"[5]	
"Supreme"[6]	Turns ON/OFF the Supreme function. Can be set while Audio file source of USB/CD and iPod source. **"ON"**/ **"OFF"**
"HIGHWAY–SOUND" [3]	Compensates the low volume or bass sound being lost by road noises to make vocal sound clearer. **"OFF"**/ **"Low"**/ **"Middle"**/ **"High"**
"Space Enhancer"[3][4]	Virtually enhances the sound space using the DSP. **"OFF"**/ **"Small"**/ **"Medium"**/ **"Large"**
"Sound Realizer"[4]	Virtually makes the sound more realistic using the DSP. **"OFF"**/ **"Level1"**/ **"Level2"**/ **"Level3"**
"Sound Elevation"[4]	Virtually raises the sound field using the DSP. **"OFF"**/ **"Low"**/ **"Middle"**/ **"High"**
"Volume offset"	Sets each source's volume as a difference from the basic volume. **"–8" — "0" (AUX: "–8"— "+8")**
"SubWoofer Mute"	Sets the Subwoofer Mute. **"ON"**/ **"OFF"**
"Audio Preset"	You can register the values set the Audio control items.
"Bass Boost"[5]	Sets the Bass Boost level in 3 steps. **"OFF"**/ **"Level1"**/ **"Level2"**/ **"Level3"**
"Loudness"[5]	Makes the sounds at high and low frequencies louder. **"OFF"**/ **"Low"**/ **"High"**
"Balance"	Adjusts left/right speaker balance. **"Left15" — "0" — "Right15"**
"Fader"	Adjusts front/rear speaker balance. **"Rear15" — "0" — "Front15"**

(**Colored text**: Factory setting)

[1] You can select for each source.
[2] "User": The Equalizer curve set in the section
[3] This function is not effective for the HD Radio source.
[4] Function of KDC-X997.
[5] Displayed only when "DSP Set" is set to "Through".
[6] Audio file source only

5. **Select a value using [Control] knob.**

Exiting from the Function setting mode

Press and hold [◌/⮌].

▼ **When you selected "iPod" for "Preset Equalizer"**
- When you selected "iPod" for "Preset Equalizer", next select an equalizer curve. Select a desired equalizer curve using [Control] knob from among 22 equalizer curves displayed after you selected "iPod".

5-2. Manual equalizer control

You can adjust the equalizer curve manually.

1 **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3 **Select "Audio Control" > "Manual Equalizer" using [Control] knob.**

4. **Select a equalizer control item using [Control] knob.**

Display	Description	Range
"Gain"	Adjust the gain of each band.	−9 – **0** – +9 dB
"Q Factor"[1]	Adjust Q of each band.	**1.35**/ **1.50**/ **2.00**
"Bass EXT"	–	**"OFF"**/ **"ON"**

(**Colored text**: Factory setting)
[1] Function of KDC-X997.
When "Bass EXT" and "Q Factor" are selected, skip step 5.
5. **Select a Band using [Control] knob.**
   `KDC-X997`
   "BAND1"; 62.5 Hz, "BAND2"; 100 Hz,
   "BAND3"; 160 Hz, "BAND4"; 250 Hz,
   "BAND5"; 400 Hz, "BAND6"; 630 Hz,
   "BAND7"; 1 kHz, "BAND8"; 1.6 kHz,
   "BAND9"; 2.5 kHz, "BAND10"; 4 kHz,
   "BAND11"; 6.3 kHz, "BAND12"; 10 kHz,
   "BAND13"; 16 kHz
   `KDC-BT955HD`
   "BAND1"; 62.5 Hz, "BAND2"; 160 Hz,
   "BAND3"; 400 Hz, "BAND4"; 1 kHz,
   "BAND5"; 2.5 kHz, "BAND6"; 6.3 kHz,
   "BAND7"; 16 kHz
6. **Select a value using [Control] knob.**

Exiting from the Function setting mode

Press and hold [🔍/⤺].

▼ **When the "Manual Equalizer" item is not displayed**
  ● This function is not available when "iPod" is selected for "Preset Equalizer".

Car type selection

You can compensate the delay of the sound arrival time by selecting your environment from the car types.

1 Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.
3 Select "Audio Control" > "Pro Setup" > "Car Type" using [Control] knob.

4. Select a car type using [Control] knob.

Display	Car type
"OFF"	Not compensating.
"Compact"	Compact car
"Full Size Car"	Full size car
"Wagon"	Station wagon
"Minivan"	Minivan
"SUV"	Sport–utility vehicle
"Minivan (Long)"	Long Minivan

Exiting from the Function setting mode
Press and hold [⚲/⏎].

5-4. Speaker setting

The speaker X'Over is automatically set when the position and size of each speaker are selected from the following items.

1 **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
Enters the Function setting mode.

3 **Select "Audio Control" > "Pro Setup" > "Speaker Setting" using [Control] knob.**

4. **Select a speaker type using [Control] knob.**

Speaker type	Setting item	Setting value
"Front"	Front speaker location	"**Door**", "On Dash", "Under Dash"

	"SIZE"	Front speaker size
		 `KDC-X997`
		 "O.E.M.", "3 1/2in", "4in", "4 3/4in", "5in", "**6 1/2in**", "6 3/4in", "7in", "4x6", "5x7", "6x8", "6x9", "7x10"
		 `KDC-BT955HD`
		 "Small", "**Medium**", "Large"

	"TW"	Tweeter size "None", "Small", "**Medium**", "Large"
"Rear"	Rear speaker location	"**Door**", "Rear Deck" ("**2nd Row**", "3rd Row"[1])

	"SIZE"	Rear speaker size
		 `KDC-X997`
		 "None", "O.E.M.", "3 1/2in", "4in", "4 3/4in", "5in", "**6 1/2in**", "6 3/4in", "7in", "4x6", "5x7", "6x8", "6x9", "7x10"
		 `KDC-BT955HD`
		 "None", "Small", "**Medium**", "Large"

"SubWoofer"	"SIZE"	Speaker Size Subwoofer
		 `KDC-X997`
		 "None", "6 1/2inch", "8inch", "**10inch**", "12inch", "15inch Over"
		 `KDC-BT955HD`
		 "None", "Small", "**Large**"

(**Colored text**: Factory setting)

[1] Value set when "Minivan" or "Minivan (Long)"   .

5. **Select a setting item using [Control] knob.**
6. **Select a setting value using [Control] knob.**

Exiting from the Function setting mode

Press and hold [Q/↰].

1 Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.

2. Press [Control] knob.
   Enters the Function setting mode.
3 Select "Audio Control" > "Pro Setup" > "X'Over" using [Control] knob.

4. Select a speaker type using [Control] knob.

Speaker type	Setting item	Setting value
"Front"	"FC"	Front high pass filter KDC–X997 Through, 30, 40, 50, 60, 70, 80, 90, 100, 120, 150, 180, 220, 250 Hz KDC–BT955HD Through, 40, 60, 70, 80, 100, 120, 150, 180, 220 Hz
	"SLOPE"[1][2]	Front high pass slope −6, −12, −18, −24 dB/Oct
	"GAIN"	Front gain −8 ,−7, −6, −5, −4, −3, −2, −1, 0 dB
"Rear"	"FC"	Rear high pass filter KDC–X997 Through, 30, 40, 50, 60, 70, 80, 90, 100, 120, 150, 180, 220, 250 Hz KDC–BT955HD Through, 40, 60, 70, 80, 100, 120, 150, 180, 220 Hz
	"SLOPE"[1][2]	Rear high pass slope −6, −12, −18, −24 dB/Oct
	"GAIN"	Rear Gain −8, −7, −6, −5, −4, −3, −2, −1, 0 dB
"SubWoofer"	"FC"	Subwoofer low pass filter KDC–X997 30, 40, 50, 60, 70, 80, 90, 100, 120, 150, 180, 220, 250, Through Hz KDC–BT955HD 40, 60, 70, 80, 100, 120, 150, 180, 220, Through Hz
	"SLOPE"[1][2]	Subwoofer slope −6, −12, −18, −24 dB/Oct
	"GAIN"	Subwoofer gain −8 ,−7, −6, −5, −4, −3, −2, −1, 0 dB
	"PHASE"	Subwoofer phase "REV" (180°)/ "NML" (0°)
"Tweeter"[2]	"FC"	Shelving filter 1, 1.6, 2.5, 4, 5, 6.3, 8, 10, 12.5 kHz
	"Volume"	Tweete volume −8 ,−7, −6, −5, −4, −3, −2, −1, 0 dB

(Colored text: Factory setting)
[1] Displayed only when "FC" is set to a value other than "Through".
[2] Function of KDC–X997.

5. Select a setting item using [Control] knob.
6. Select a setting value using [Control] knob.

Exiting from the Function setting mode

Press and hold [🔍/↰].

Listening position setting

You can adjust sound localization according to the listening position.

1 **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Audio Control" > "Pro Setup" > "DTA Settings" > "Preset Position" using [Control] knob.**

4. **Select a listening position using [Control] knob.**

| Display	Compensation seat
"ALL"	Not compensating.
"Front R"	Front Right seat
"Front L"	Front Left seat
"Front All"	Front seat

Exiting from the Function setting mode
Press and hold [⌕/⤺].

Delay time control

▼ **Preparation for setting**

● If you specify the distance from the center of the currently set listening position to every speaker, the delay time will be automatically computed and set.
  1. Determine the center of the currently set listening position as the reference point (● in the illustration shown below).
  2. Measure the distances from the reference point to the speakers.
  3. Calculate the differences between the distance of the furthest speaker and other speakers.
  4. Input the differences calculated in step 3 for individual speakers.
  5. Adjust gain for individual speakers. A sound image will be shifted to the speaker with increased gain.
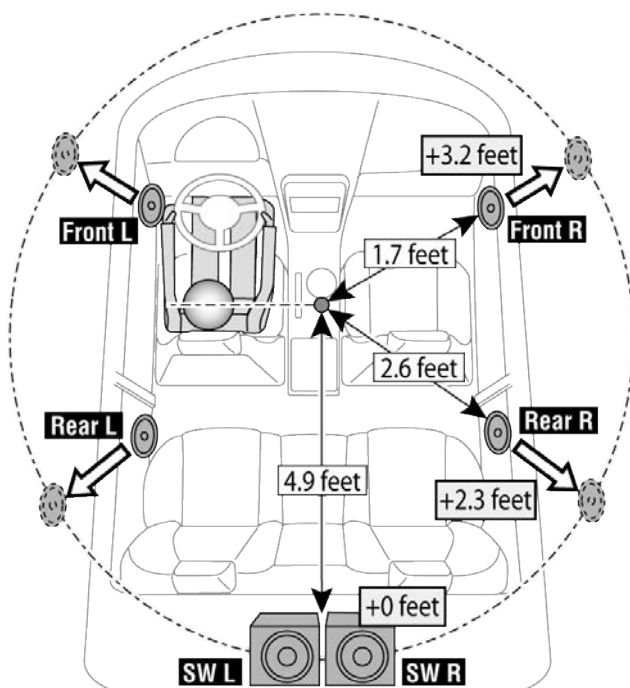
1. **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**
   .
2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Audio Control" > "Pro Setup" > "DTA Settings" > "DTA" using [Control] knob.**
   For how to use [Control] knob
4. **Select a speaker using [Control] knob.**

Speaker	Display	Range
Front Left speaker	"FrontL"	**0 – 20.01 feet**
Front Right speaker	"FrontR"	**0 – 20.01 feet**
Rear Left speaker	"RearL"	**0 – 20.01 feet**
Rear Right speaker	"RearR"	**0 – 20.01 feet**
Subwoofer Left	"SW L"	**0 – 20.01 feet**
Subwoofer Right	"SW R"	**0 – 20.01 feet**

(**Colored text**: Factory setting)
5. **Select a value using [Control] knob.**

Exiting from the Function setting mode

Press and hold [Q/⬑].

Channel level fine adjustments

After DTA compensation, you can finely adjust the unsatisfactory speaker volume of respective speaker.

1. **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**
    .
2. **Press [Control] knob.**
    Enters the Function setting mode.
3. **Select "Audio Control" > "Pro Setup" > "DTA Settings" > "Channel Level" using [Control] knob.**
    For how to use [Control] knob   .
4. **Select a speaker using [Control] knob.**

Speaker	Display	Range
Front Left speaker	"Front" "L"	–8 – **0** dB
Front Right speaker	"Front" "R"	–8 – **0** dB
Rear Left speaker	"Rear" "L"	–8 – **0** dB
Rear Right speaker	"Rear" "R"	–8 – **0** dB
Subwoofer Left	"SW" "L"	–8 – **0** dB
Subwoofer Right	"SW" "R"	–8 – **0** dB

(**Colored text**: Factory setting)

5. **Select a value using [Control] knob.**

Exiting from the Function setting mode

Press and hold [⌕/⮌].

Resetting of DTA Settings

You can reset the DTA-compensated values to the factory settings.

1. **Press [SRC] and select a source other than Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Audio Control" > "Pro Setup" > "DTA Settings" > "Reset DTA Setting" using [Control] knob.**

4. **Select "YES" using [Control] knob.**

Exiting from the Function setting mode

Press and hold [Q/⮌].

DSP preset

You can register the values set the DSP control items.

1. **Set the DSP control items**

2. **Press [Control] knob.**
   Enters the Function setting mode.

3. **Select "Audio Control" > "Pro Setup" > "Audio Preset" > "Memory" using [Control] knob.**

4. **Select a memory number ("Memory 1" or "Memory 2") using [Control] knob.**

5. **Select "YES" using [Control] knob.**
   "Memory Completed" appears.

Exiting from the Function setting mode

Press and hold [🔍/↩].

▼ **When reset**
   - When this unit is reset, all setting values stored in "Memory 1" are applied to the source.

DSP preset recall

1. **Press [SRC] and select a recall source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Audio Control" > "Pro Setup" > "Audio Preset" > "Recall" using [Control] knob.**

4. **Select a recall memory number ("Recall 1" or "Recall 2") using [Control] knob.**
5. **Select "YES" using [Control] knob.**
   "Recall Completed" appears.

Exiting from the Function setting mode

Press and hold [⌕/⮌].

## Models of iPods/iPhones that can be connected to this unit

Made for

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

Playing a iPod

Connect the iPod to the USB terminal using the KCA-iP102 (optional accessory).
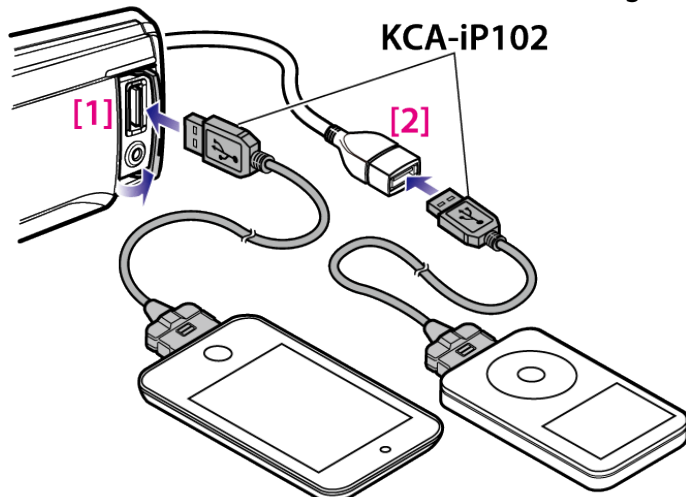
[1] Front USB terminal
[2] Rear USB terminal
You can connect the iPod to either one of the USB terminals provided at the front and rear of this unit.
If you connect a device to the USB terminal provided at the rear, the "REAR USB" indicator stays lit.
When it is connected, the source is switched automatically and playback starts.

Selecting a song

Press [◄◄] or [►►] button.

Fast-forwarding or fast-backwarding a song

Press and hold [◄◄] or [►►].

Pause and play a song

Press and hold [🔍/↩].

Removing iPod

Switch the source to a device other than iPod, Pandora, Aha Radio, and iHeartRADIO, and then remove the iPod.
Data contained in the iPod may be damaged if you remove it when it is used as the active source.

Music search

You can search for the song you want to play.

1. **Press [🔍/↩].**
   "MUSICSEARCH" appears and enters the Music search mode.
2. **Search for a song**

Operation type	Operation
Movement between items	Turn [Control] knob.
Selection of item	Press [Control] knob.
Return to previous item	Press [🔍/↩].
Return to Top menu	Press and hold [◄◄].

Exiting from the Music search mode

Press and hold [🔍/↩].

▼ **Undisplayable titles**
  ● If no characters included in a song name can be displayed, the browse item name and digits are displayed.

Items	Display
Playlists	"PLIST***"
Artists	"ART***"
Albums	"ALB***"
Songs	"PRGM***"
Podcasts	"PDCT***"
Genres	"GEN***"
Composers	"COM***"

Alphabet search

You can select an alphabetic character from the list in the browse item (artist, album, etc.) currently selected.

▼ **When the KDC-X697/ KDC-655U/ KMR-555U is used**
1. **Press [$\mathbb{Q}$/$\leftarrow$].**
   "MUSICSEARCH" appears and enters the Music search mode.
2. **Press and hold [Control] knob.**
   Enter the Search select mode
3. **Select "Alphabet Search" using [Control] knob.**
4. **Select a character using [Control] knob.**
   Return to the Music search mode.

Exiting from the Alphabet search mode

Press and hold [$\mathbb{Q}$/$\leftarrow$].

▼ **Notes on alphabet search**
- Turning [Control] knob fast in the Music search mode allows you to enter the alphabet search mode.
- The time of Alphabet search may become long depending on the number of items (songs) in iPod.
- To search for a character other than A to Z and 1, enter "*".
- If the first character string begins with an article "a", "an", or "the" in the alphabet search mode, it is searched for in defiance of the article.

Direct search

You can search for music by selecting a browse item and an alphabetic character(s).

1. **Press [🔍/⤸].**
   "MUSICSEARCH" appears and enters the Music search mode.
2. **Press and hold [Control] knob.**
   Enter the Search select mode
3. **Select "Direct Search" using [Control] knob.**
4. **Select browse item using [Control] knob.**

Display	Browse item
"PLAYLISTS"	Playlists
"ARTISTS"	Artists
"ALBUMS"	Albums
"SONGS"	Songs
"PODCASTS"	Podcasts
"GENRES"	Genres
"COMPOSERS"	Composers

5. **Select select a character(s) using [Control] knob.**
   You can select up to three characters.
6. **Select "DONE" using [Control] knob.**
   A search result list is displayed.
7. **Select music using [Control] knob.**

Exiting from the Music search mode

Press and hold [🔍/⤸].

Skip search

You can search for a song by skipping songs at the set skip search ratio (the ratio of the number of songs to skip to the total number of songs in the selected list)

1. **Press [🔍/⏎].**
   "MUSICSEARCH" appears and enters the Music search mode.
2. **Select browse item using [Control] knob.**
3. **Press and hold [Control] knob.**
   Enter the Search select mode
4. **Select "Skip Search" using [Control] knob.**
5. **Search for music**

Operation type	Operation
Movement between items	Turn [Control] knob.
Skip Search	Press [▲] or [▼].
Selection of item	Press [Control] knob.
Setting of skip search ratio	Press [◀◀] or [▶▶].

Exiting from the Music search mode

Press and hold [🔍/⏎].

Skip search ratio setting

1. **Press [SRC] and select an iPod ("iPod") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Settings" > "Skip Search" using [Control] knob.**

4. **Select a ratio using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

Press and hold [⌕/↰].

Playback mode

You can select a playback mode, such as Random play and Repeat play.

1. **Press [SRC] and select an iPod ("iPod") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Play Mode" using [Control] knob.**

4. **Select a playback mode function using [Control] knob.**

Display	Description
"Folder Random"	When set to "ON", plays the songs in the folder randomly. (Music only) ☑ (ON) / ☐ (OFF)
"All Random"	When set to "ON", plays all songs in the iPod randomly. (Music only) ☑ (ON) / ☐ (OFF)
"File Repeat"	When set to "ON", plays the song repeatedly. ☑ (ON) / ☐ (OFF)

5. **Press [Control] knob.**
   The setting is changed.

Exiting from the Function setting mode

Press and hold [⌕/⤺].

App & iPod mode setting search

You can select a music from iPod when App & iPod mode is set to ON.

   1 Press [SRC] and select an iPod ("iPod") source using [Control] knob.

   2. Press [Control] knob.
      Enters the Function setting mode.
   3. Select "APP & iPod Mode" using [Control] knob.

      Selecting "APP & iPod Mode" item each time switching between On and Off.

Exiting from the Function setting mode

   Press and hold [Q/⬑].

▼ **Operation performed when "APP & iPod Mode" is set to "ON"**
   ● When "APP & iPod Mode" is set to "ON", this unit can control only the "Pause and play", "Selecting a song", and "Fast Forward or Fast Backward of the Song" functions.

Requirements Pandora®

Requirements for listening to Pandora® are as follows:

iPhone or iPod touch
- Use an Apple iPhone or iPod touch running under iOS3 or later.
- Search for "Pandora" in the Apple iTunes App Store to find and install the most current version of the Pandora® application on your device.
- iPhone/ iPod touch connected to this unit with a KCA–iP102 (optional accessory).

Android™
- Visit the Google Play and search for Pandora to install.
- Bluetooth must be built in and the following profiles must be supported.
    - SPP (Serial Port Profile)
    - A2DP (Advanced Audio Distribution Profile)

BlackBerry®
- Visit www.pandora.com from the built in browser to download the Pandora application.
- Bluetooth must be built in and the following profiles must be supported.
    - SPP (Serial Port Profile)
   - A2DP (Advanced Audio Distribution Profile)

▼ **Notes**
- In the application on your device, log in and create an account with Pandora.
  (If you are not already a registered user, an account can also be created at www.pandora.com.)
- Internet connection by LTE, 3G, EDGE, or WiFi.
- Pandora® is only available in the United States, Australia, and New Zealand.
- Because Pandora® is a third–party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora® at pandora–support@pandora.com

## Android or BlackBerry (KDC-X997/ KDC-BT955HD/ KDC-X897/ KDC-BT855U only)

- You need to register your cell phone before using it with this unit.

- Disconnect the iPhone or iPod touch.

1. **Connect the Android/BlackBerry smartphone via Bluetooth.**
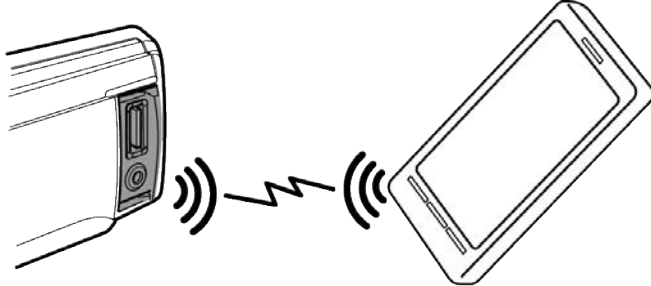
2. **Open the Pandora® application on your device.**
3. **Press [SRC] and select a Pandora ("Pandora") source using [Control] knob.**

iPhone or iPod touch

1. **Open the Pandora® application on your device.**
2. **Connect the iPod to the USB terminal using the KCA-iP102 (optional accessory).**
   The source switches, and broadcasting starts automatically from your current station.
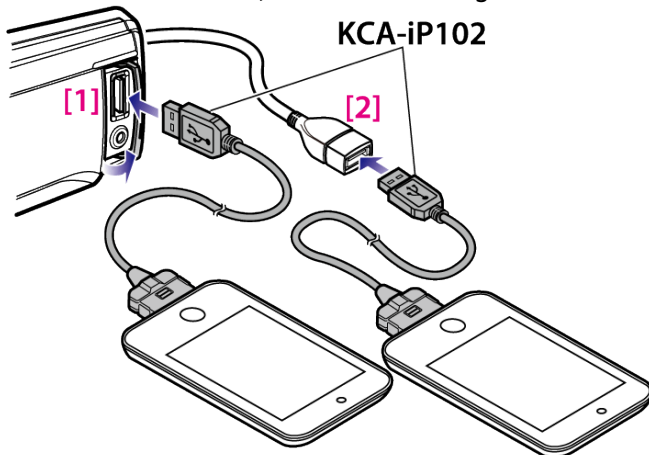
   [1] Front USB terminal
   [2] Rear USB terminal
3. **Press [SRC] and select an Pandora ("Pandora(FRONT)" or "Pandora(REAR)") source using [Control] knob.**

Basic operation

Thumbs up
> **Press [▲].**

Thumbs down
> **Press [▼].**

Song skip
> **Press [►►|].**

Pause and play a song
> **Press and hold [🔍/⮌].**

Station search

You can select the station you want to listen to from your station list.

1. **Press [⚲/⏎].**
   "Station List" appears and enter the Station List mode.
2. **Select a sort type using [Control] knob.**
   "A–Z": Stations are displayed in alphabetical order.
   "By Date": Stations are displayed in date order.
3. **Select a station using [Control] knob.**

▼ ♪ **indicator**
   - The ♪ indicator is displayed for the station you are listening to.

Bookmark registration

You can register the current track information or artist information in Bookmark.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Bookmarks" using [Control] knob.**

3. **Select a information type using [Control] knob.**
   - "Bookmark Track": To register track information.
   - "Bookmark Artist": To register artist information.

   "Adding bookmark" appears. The information about the song you are listening to now is added to the bookmark.

Exiting from the Function setting mode
Press and hold [Q/⤺].

▼ **Synchronization with your Pandora® account**
- This unit allows you to bookmark tracks and/or artists in your personalized Pandora® account. The bookmarks will not be available for review on the unit but will be available in your Pandora® account.

New station creation

You can create a new station based on a favorite artist, track, or genre, or from what is currently playing.

1. **Press and hold [Control] knob.**
   "New Station" appears and enter the New station creation.
2. **Select a search method using [Control] knob.**
   - "My Station": Create a station based on an artist or track you enter.
   - "Track": Create a station based on the currently playing track.
   - "Artist": Create a station based on the currently playing artist.
   - "Genre": Create a station from the genre list.

   When you select "Track" or "Artist", a new station name is created.The subsequent steps need not be executed.
3. **Specify a search condition.**
   When "My Station" is selected

Operation type	Operation
Selection of characters	Turn [Control] knob.
Determination of the selected characters.	Press [Control] knob.
Select the column	Press [◄◄] or [►►].
Station search starts	Select "DONE" using [Control] knob.

   Up to 5 characters can be entered.
   When "Genre" is selected
   Select genre using [Control] knob.
4. **Select a station using [Control] knob.**
   The broadcast from the selected station is received and the station is registered in the station list.

Deletion of station

You can delete registered station information from your station list.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Station Delete" using [Control] knob.**

3. **Select a sort type using [Control] knob.**
   "A–Z": Stations are displayed in alphabetical order.
   "By Date": Stations are displayed in date order.
4. **Select a station using [Control] knob.**
5. **Select "YES" using [Control] knob.**
   "Completed" appears.

Exiting from the Function setting mode

Press and hold [Q/⬏].

Pandora source control

You can turn on/off the Pandora source.

1. **Press [SRC] and select a Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Initial Settings" > "Pandora Source" using [Control] knob.**

4. **Select a Pandora source control method using [Control] knob.**
   "ON": Turns on the Pandora source.
   "OFF": Turns off the Pandora source.

Exiting from the Function setting mode

Press and hold [⌕/⮌].

Requirements Aha™

Requirements for listening to the Aha™ are as follows:

iPhone or iPod touch

- Use an Apple iPhone or iPod touch running iOS4 or later.
- Search for "aha" in the Apple iTunes App Store to find and install the most current version of the Aha™ application on your device.
- iPhone/ iPod touch connected to this unit with a KCA–iP102 (optional accessory).

Android™

- Use Android OS 2.2 or later.
- Download the Aha™ application to your smartphone from the Google Play.
- Bluetooth must be built in and the following profiles must be supported.
    - SPP (Serial Port Profile)
   - A2DP (Advanced Audio Distribution Profile)

▼ **Notes**
- In the application on your device, log in and create a free account with Aha.
- Internet connection by LTE, 3G, EDGE, or WiFi.
- Because Aha™ is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some Aha™ functionality cannot be operated from this unit.

Listening to the Aha Radio

Android

- You need to register your cell phone before using it with this unit.

- Disconnect the iPhone or iPod touch.

1. **Connect the Android smartphone via Bluetooth.**
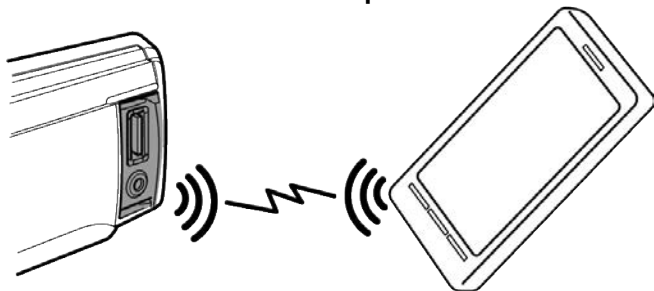
2. **Open the Aha Radio application on your device.**
3. **Press [SRC] and select an Aha Radio ("aha") source using [Control] knob.**

iPhone or iPod touch

1. **Open the Aha Radio application on your device.**
2. **Connect the iPod to the USB terminal using the KCA-iP102 (optional accessory).**

KCA-iP102
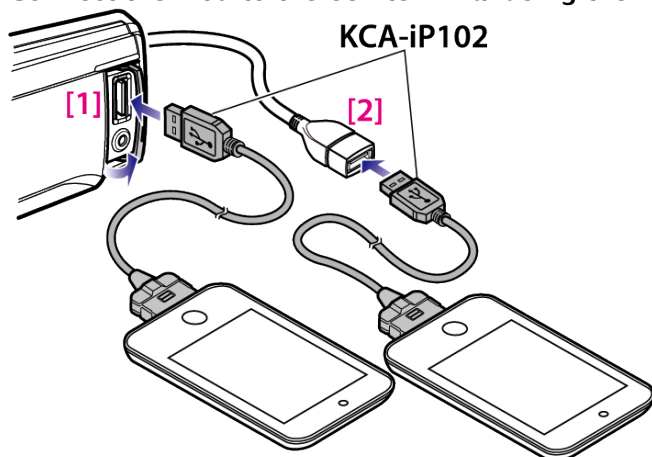
[1] Front USB terminal
[2] Rear USB terminal

3 **Press [SRC] and select an Aha Radio ("aha(FRONT)" or "aha(REAR)") source using [Control] knob.**

Basic operations

Pause and play a content
> **Press and hold [Q/⤴].**

Selecting a content
> **Press [I◄◄] or [►►I] button.**

Forward 30 seconds a content
> **Press and hold [►►I].**

Backward 15 seconds a content
> **Press and hold [I◄◄].**

"Likes" current content
> **Press [▲] button.**
> To unvote, press the button again.

"Dislikes" current content
> **Press [▼] button.**
> To unvote, press the button again.

▼ **Notes**
- You can not perform the above operations depending on the selected station.

Station search

You can select the station you want to listen to from your station list.

1. **Press [Q/⏎].**
   "Station List" appears and enter the Station List mode.
2. **Select a station using [Control] knob.**

3. **Select a content using [Control] knob.**

Calling a number in the content

You can call the phone number obtained from the content from a smartphone connected to this unit via Bluetooth.

1. **Press and hold [Control] knob.**
   "Make a call" appears.
2. **Press [Control] knob.**
   Makes a call.

Canceling the call

Press [Q/↰].

▼ **Notes**
- You can not perform the above operations depending on the selected station.

Aha source control

You can turn on/off the aha source.

1. **Press [SRC] and select a Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Initial Settings" > "aha Source" using [Control] knob.**

4. **Select a aha source control method using [Control] knob.**
   "ON": Turns on the aha source.
   "OFF": Turns off the aha source.

Exiting from the Function setting mode

Press and hold [⌕/⤺].

Requirements iHeartRADIO™

Requirements for listening to the iHeartRADIO™ are as follows:

- Download the iHeart Link for KENWOOD application from the iTunes App Store or Google play.
- In the application on your device, log in and create a free account with iHeartRADIO.
- Internet connection by LTE, 3G, EDGE, or WiFi.

iPhone or iPod touch

- Search for "iHeart Link" in the Apple iTunes App Store to find and install the most current version of the iHeart Link for application on your device.
- iPhone/ iPod touch connected to this unit with a KCA-iP102 (optional accessory).

Android™

- Download the iHeart Link application to your smartphone from the Google Play.
- Bluetooth must be built in and the following profiles must be supported.
  - SPP (Serial Port Profile)
 - A2DP (Advanced Audio Distribution Profile)

▼ **Notes**
- Because iHeartRADIO™ is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some iHeartRADIO™ functionality cannot be operated from this unit.

Listening to the iHeartRADIO

Android (KDC-X997/ KDC-BT955HD/ KDC-X897/ KDC-BT855U only)

- You need to register your cell phone before using it with this unit.

- Disconnect the iPhone or iPod touch.

1. **Connect the Android smartphone via Bluetooth.**
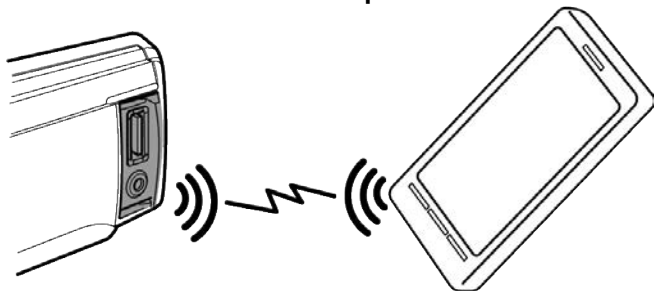
2. **Open the iHeart Link application on your device.**
3. **Press [SRC] and select an iHeartRADIO ("iHeartRADIO") source using [Control] knob.**

iPhone or iPod touch

1. **Open the iHeart Link application on your device.**
2. **Connect the iPod to the USB terminal using the KCA-iP102 (optional accessory).**
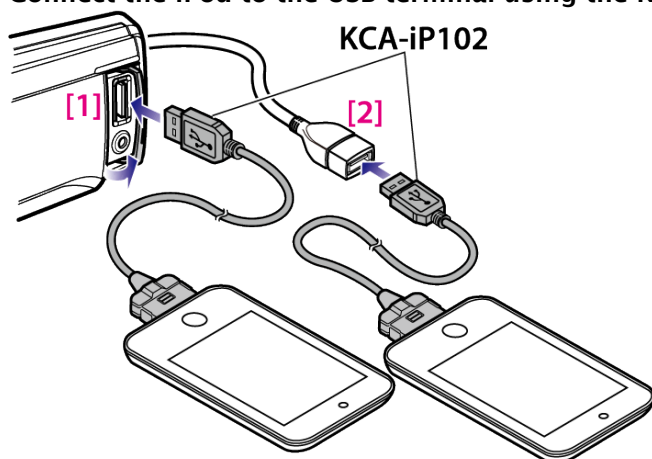
[1] Front USB terminal
[2] Rear USB terminal

3. **Press [SRC] and select an iHeartRADIO ("iHeartRADIO(FRONT)" or "iHeartRADIO(REAR)") source using [Control] knob.**

Stop/Pause and play a song
Press and hold [🔍/↰].

Skip track (Custom station)
Press [►►⊩].

Thumbs up (Custom station)
Press [▲] button.

Thumbs down (Custom station)
Press [▼] button.

Adding to favorite stations (Live station)
Press and hold [▲].

Creating a custom station name
Press and hold [Control] knob.
A custom station name is created according to the current song information.

Station search

You can select the station you want to listen to from your station list.

1. **Press [⚲/⏎].**
   "Station List" appears and enter the Station List mode.
2. **Select a category and station using [Control] knob.**
   Select the desired file from the list (My Station, Local, Genres, Cities).
   When a city's list is displayed, you can skip stations in alphabetical order. Press and hold [Control] knob, and then select a station using [Control] knob.
   When a custom station is selected, the "CUSTOM" indicator stays lit.

Station scan

You can switch among stations at random.

1 Press [SRC] and select an iHeartRADIO source using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.
3 Select "Station Scan" using [Control] knob.

Stations are selected and received at random.

Exiting from the Function setting mode
Press and hold [🔍/↩].

▼ **Note**
  • The Station scan function can be used only while listening to a live station.

Favorite station delete

You can delete a favorite station.

1 **Press [SRC] and select an iHeartRADIO source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.

3 **Select "Station Delete" using [Control] knob.**

4. **Select a category ("Live" or "Custom") using [Control] knob.**
5. **Select a station using [Control] knob.**
6. **Select "YES" using [Control] knob.**
   "Station Delete Completed" appears.

Exiting from the Function setting mode

Press and hold [Q/⤺].

iHeartRADIO source control

You can turn on/off the iHeartRADIO source.

1 Press [SRC] and select a Standby ("STANDBY") using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.

3 Select "Initial Settings" > "iHeartRADIO Source" using [Control] knob.

4. Select a iHeartRADIO source control method using [Control] knob.
"ON": Turns on the iHeartRADIO source.
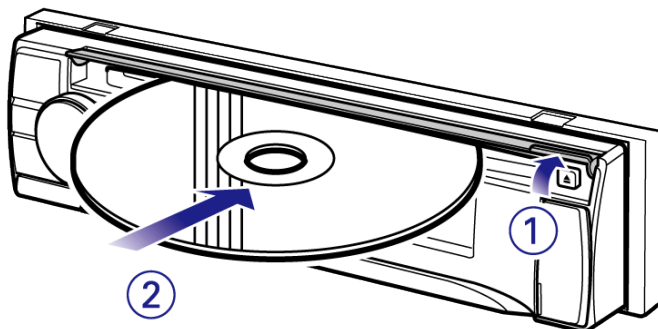"OFF": Turns off the iHeartRADIO source.

Exiting from the Function setting mode
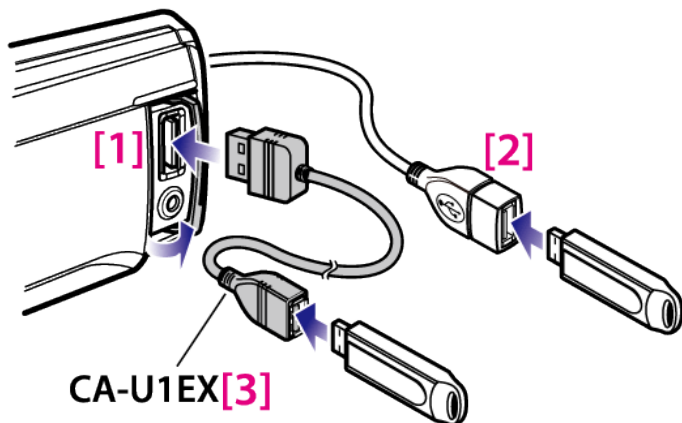
Press and hold [🔍/⮌].

Playing a disc

Open the Disc slot cover upward.
Insert a disc in the Disc slot.

When it is inserted, the source is switched automatically and playback starts.
Close the Disc slot cover.

Playing a USB device

Connect a USB device to the USB terminal.

CA-U1EX[3]

[1] Front USB terminal
[2] Rear USB terminal
[3] optional accessory
You can connect the iPod or USB device to either one of the USB terminals provided at the front and rear of this unit.
When it is connected, the source is switched automatically and playback starts.

Selecting an audio file folder

Press [▲] or [▼] button.

Selecting a song (track or file)

Press [◄◄] or [►►|].

Fast-forwarding or fast-backwarding a song (track or file)

Press and hold [◄◄] or [►►|].

Pause and play a song (track or file)

Press and hold [Q/⤺].

Removing disc

Open the Disc slot cover upward.
Press [⏏].

Removing USB device

Press [SRC] to switch the source to a device other than USB, and then remove the USB device.

Data contained in the USB device may be damaged if you remove it when it is used as the active source.

Music search

You can select the music you want to listen to from the device or media being played now.

1. **Press [🔍/↩].**
   "MUSICSEARCH" appears, and the Music search mode is selected.
2. **Search for music**

Audio file

Operation type	Operation
Movement between folders/files	Turn [Control] knob.
Automatic scrolling	Press and hold [▲]/[▼]. To cancel, press [▲]/[▼].
Selection of folder/file	Press [Control] knob.
Return to previous folder	Press [🔍/↩].
Return to root folder	Press and hold [◄◄].
Cancellation of Music search mode	Press and hold [🔍/↩].

♪ indicator: Audio file
▢ indicator: Folder

CD source

Operation type	Operation
Movement between track	Turn [Control] knob.
Selection of track	Press [Control] knob.
Return to first track	Press and hold [◄◄].
Cancellation of Music search mode	Press [🔍/↩].

Skip search

You can search for a song by skipping songs at the set skip search ratio (the ratio of the number of songs to skip to the total number of songs in the selected list).

1. **Press [🔍/↩].**
   "MUSICSEARCH" appears, and the Music search mode is selected.
2. **Select browse item using [Control] knob.**
3. **Press and hold [Control] knob.**
   Enter the Search select mode
4. **Select "Skip Search" using [Control] knob.**
5. **Search for music**

Operation type	Operation
Movement between items	Turn [Control] knob.
Skip search	Press [▲] or [▼].
Selection of item	Press [Control] knob.
Setting of skip search ratio	Press [I◄◄] or [►►I].

Exiting from the Music search mode

Press and hold [🔍/↩].

Skip search ratio setting

1 **Press [SRC] and select a USB ("USB") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3 **Select "Settings" > "Skip Search" using [Control] knob.**

4. **Select a ratio using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

Press and hold [Q/⤶].

Playback mode

You can select a playback mode, such as Random play and Repeat play.

1. **Press [SRC] and select a CD/ USB ("CD"/ "USB") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Play Mode" using [Control] knob.**

4. **Select a playback mode function using [Control] knob.**

Display	Description
"Disc Random" (CD)/ "Folder Random" (Audio file)	When set to "ON", plays the songs in the CD/folder randomly. ☑ **(ON)** / ☐ **(OFF)**
"All Random" (Audio file)	When set to "ON", plays all songs in the disc/USB randomly. ☑ **(ON)** / ☐ **(OFF)**
"Track Repeat" (CD)/ "File Repeat" (Audio file)	When set to "ON", plays the selected song repeatedly. ☑ **(ON)** / ☐ **(OFF)**
"Folder Repeat" (Audio file[1])	When set to "ON", plays the songs in the folder repeatedly. ☑ **(ON)** / ☐ **(OFF)**

[1] Except the Music Editor media

5. **Press [Control] knob.**
   The setting is changed.

Exiting from the Function setting mode

Press and hold [🔍/⤺].

Direct music search

You can search for music by entering the track number.

1. **Press [DIRECT] on the remote control.**
   "– – –" appears and enter the Direct Music search mode.
2. **Press the number buttons on the remote control to enter the music number.**
3. **Press [ENT] on the remote control.**

Exiting the Direct music search mode

Press [⏎] on the remote control.

About the Audio file

- **Playable Audio files**
  AAC–LC (.m4a), MP3 (.mp3), WMA (.wma), WAV (.wav) of USB device
- **Playable disc media**
  CD–R/RW/ROM
- **Playable disc file formats**
  ISO 9660 Level 1/2, Joliet, Long file name.
- **Playable USB devices**
  USB mass storage class
- **Playable USB device file systems**
  FAT12, FAT16, FAT32

Even if the audio files comply with the standards listed above, playback may be impossible depending on the type or condition of the medium or device.

- **Playback order of the Audio files**
  In the example of folder/file tree shown below, files are played in the order of number from (1) to (6).

CD/USB(1)
├── ♪(1)
├── 2
│   └── 3
│   ├── ♪(2)
│   └── ♪(3)
├── 4
│   ├── ♪(4)
│   └── 5
│   ├── ♪(5)
│   ⋮
│   └── ♪(6)
⋮

: folder
♪: Audio file
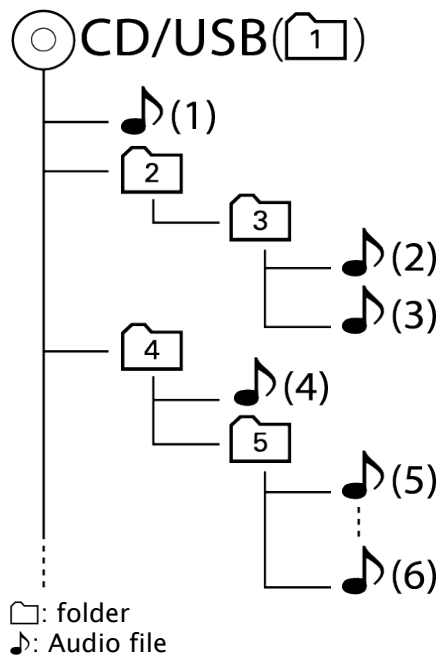
About the USB device

- When the USB device is connected to this unit, it is charged when this unit is powered.
- Install the USB device in the place where it will not prevent you from driving your vehicle properly.
- You cannot connect a USB device via a USB hub or multi card reader.
- Save backups of the audio files used with this unit. The files can be erased depending on the operating condition of the USB device.
  We shall not be liable for any damage arising out of erasure of the stored data.
- No USB device comes with this unit. You need to purchase a commercially available USB device.
- When connecting the USB device, use of the CA–U1EX (optional accessory) is recommended.
- Normal playback is not guaranteed when a cable other than the USB compatible cable is used.
  Connecting a cable whose total length is longer than 4 m can result in abnormal playback.

About "KENWOOD Music Editor Light" and "KENWOOD Music Control"

- This unit supports the PC application "KENWOOD Music Editor Light" (hereinafter "KME-Light"), and Android™ application "KENWOOD Music Control" (hereinafter "KMC").
- When you use the audio file with database information added by the "KENWOOD Music Editor Light" or "KENWOOD Music Control", you can search for a file by title, album or artist name using Music Search.

About the discs used with this unit

- This unit can only play the CDs with ⌜disc⌝ ⌜disc Recordable⌝ ⌜disc ReWritable⌝ .
- The following discs cannot be used:
  - A discs that is not round
  - A discs with coloring on the recording surface or a disc that is dirty
  - A recordable/rewritable disc that has not been finalized (For the finalization process, refer to the instruction manual that came with your disc writing software or your disc recorder.)
  - An 8 cm (3 inch) disc (An attempt to insert using an adapter can cause malfunction.)

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.
- Do not use any solvents to clean discs. Use a dry silicon or soft cloth.
- Clean the disc by moving the cloth outward from the center of the disc.
- When removing a disc from this unit, pull it out horizontally.
- If the center hole or outside rim of a disc has burrs, remove them before inserting a disc.

Selecting a tuner source

1. **Press [SRC].**
   Enters the Source selection mode.
2. **Select a Tuner ("TUNER") source using [Control] knob.**

Selecting a band (FM or AM)

Press [▲].

Selecting a station

Press [◄◄] or [►►].
The seek mode can be changed. Refer to <Selecting a Seek mode> (refer to below),

Selecting a Seek mode

Press [▼].

Display	Operation
"Auto1"	Automatic search for a station.
"Auto2"	Search in order of the stations in the preset memory.
"Manual"	Normal manual tuning.

Station preset memory

You can store a station in the memory.

1. **Press [|◄◄] or [►►|] to select the station.**
2. **Press [Q/⮐].**
   Enter the Preset mode.
3. **Turn [Control] knob to select a memory number (FM: "1" – "18", AM: "1" – "6").**
4. **Press and hold [Control] knob.**

Exiting from the Preset memory mode

Press and hold [Q/⮐].

▼ **About the Mix Station preset mode**
- If you press [Q/⮐] twice in step 2, the Mix Station preset mode is selected with "Mixed Preset List" displayed.
  In this mode, different bands and tuner sources (FM, AM, SiriusXM, HD Radio tuner etc.) can be saved in the same preset layer, which allows you to recall the desired station without switching between bands or tuner sources.
  A maximum of six stations can be preset in the Mix Station preset mode.
  Once the Mix Station preset mode is set, you can enter the same mode by just pressing [Q/⮐] once in step 2.
  Pressing [Q/⮐] twice allows you to return to the normal Station preset mode.

Auto memory

You can register 18 (FM)/ 6 (AM) stations with good reception automatically.

1 **Press [SRC] and select a Tuner ("TUNER") source using [Control] knob.**

2. **Press [▲] to select a band.**
3. **Press [Control] knob.**
   Enters the Function setting mode.
4 **Select "Settings" > "Auto Memory" using [Control] knob.**

5. **Select "YES" using [Control] knob.**
   When 18 (FM)/ 6 (AM) stations that can be received are stored in the memory, the process in this mode is completed.

Exiting from the Function setting mode

Press and hold [Q/⮌].

Recall preset station

Recall the stations in the memory.

1. **Press [▲] to select a band.**
2. **Press [🔍/↩].**
   Enter the Preset mode.
3. **Select a memory number (FM: "1" – "18", AM: "1" – "6") using [Control] knob.**

Tuner setting

You can set up the tuner.

1 Press [SRC] and select a Tuner ("TUNER") source using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.
3 Select "Settings" using [Control] knob.

4. Select a Tuner setting item using [Control] knob.

Display	Description
"Seek Mode"	Sets the seek mode. **"Auto1"**: Automatic search for a station. **"Auto2"**: Search in order of the stations in the preset memory. **"Manual"**: Normal manual tuning.
"MONO"	You can reduce the noise when stereo broadcasts are received as monaural. **"ON"** / **"OFF"**
"TI"[1]	Switches to the traffic information automatically when the traffic bulletin starts. **"ON"** / **"OFF"**

(Colored text: Factory setting)
[1] Function of KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U/ KMR–555U.
5. Select a setting using [Control] knob.
Returns to the previous item.

Exiting from the Function setting mode

Press and hold [⚲/⤺].

Direct access tuning

(Function of remote control)

You can search for a station directly by entering frequency.

1. **Press [DIRECT] on the remote control.**
   "– – – –" appears and enter the Direct access tuning mode.
2. **Press the number buttons on the remote control to enter the frequency.**
   Example:

Desired frequency	Press the following buttons
92.1 MHz (FM)	[9], [2], [1]
810 kHz (AM)	[8], [1], [0]

3. **Press [ENT] on the remote control.**

Exiting from the Direct access tuning mode

Press [⏏] on the remote control.

PTY (Program Type)

You can search for a station by selecting a Program Type.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Settings" > "PTY Search" using [Control] knob.**
   For how to use [Control] knob, refer to <3-3. How to select the item>.
3. **Select a Program Type using [Control] knob.**

Program Type	Display
Speech	**"Speech"**
Music	"Music"
News	**"News"**
Information	**"Inform"**
Sports	**"Sports"**
Talk	**"Talk"**
Rock	"Rock"
Classic Rock	"Cls Rock"
Adult Hits	"Adlt Hit"
Soft Rock	"Soft Rck"
Top 40	"Top 40"
Country	"Country"
Oldies	"Oldies"
Soft	"Soft"
Nostalgia	"Nostalga"
Jazz	"Jazz"
Classical	"Classicl"
R & B	"R & B"
Soft R & B	"Soft R&B "
Language	**"Language"**
Religious Music	"Rel Musc"
Religious Talk	**"Rel Talk"**
Personality	**"Persnlty"**
Public	**"Public"**
College	**"College"**
Spanish Talk	**"Habl Esp"**
Spanish Music	"Musc Esp"
Hip-Hop	"Hip hop"
Weather	**"Weather"**

Speech and music include the following types of programs.
Speech: Program type indicated by colored letters
Music: Program type indicated by black letters

4. **Press [◄◄] or [►►|] to select a station.**

Exiting from the PTY mode.

Press [⚲/↩].

▼ **"NO PTY" display**
   • When the selected Program Type is not found, "No PTY" appears. Select another Program Type.

▼ **Case where this function cannot be used**

- This function cannot be used during reception of a traffic bulletin or AM broadcast.

- This function cannot be used during reception of a traffic bulletin or AM broadcast.

About HD Radio™ Technology

This HD Radio receiver enables:

PSD

HD2/HD3

Digital Sound

iTunes® Tagging

PSD

- Program Service Data provides song name, artist, station ID, and other relevant data streams

HD2/HD3

- Adjacent to traditional main stations are HD2/HD3 Channels, providing new original formats on the FM dial

Digital Sound

- HD Radio broadcasts deliver crystal clear, CD–like digital audio quality to consumers

iTunes® Tagging

- iTunes Tagging provides users the means to "tag" broadcast radio content for later review and purchase from the iTunes Store
- HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and "Arc" logos are proprietary trademarks of iBiquity Digital Corp.

Listening to the HD Radio tuner

Selecting a HD Radio source

1. **Press [SRC].**
   Enters the Source selection mode.
2. **Select a HD Radio ("HD RADIO") source using [Control] knob.**

Selecting a band (FM or AM)

Press [▲].

Selecting a station

Press [I◄◄] or [►►I].

Selecting a Seek mode

Press [▼].

Display	Operation
"Auto1"	Automatic search for a station.
"Auto2"	Search in order of the stations in the preset memory.
"Manual"	Normal manual tuning.

Station preset memory

You can store a station in the memory.

1. **Press [I◄◄] or [►►I] to select the channel.**
2. **Press [Q/⮌].**
   Enter the Preset memory mode.
3. **Turn [Control] knob to select a memory number (FM: "1" – "18", AM: "1" – "6").**
4. **Press and hold [Control] knob.**

Exiting from the Preset memory mode

Press and hold [Q/⮌].

▼ **About the Mix Station preset mode**
- If you press [Q/⮌] twice in step 2, the Mix Station preset mode is selected with "Mixed Preset List" displayed.
  In this mode, different bands and tuner sources (FM, AM, SiriusXM, HD Radio tuner etc.) can be saved in the same preset layer, which allows you to recall the desired station without switching between bands or tuner sources.
  A maximum of six stations can be preset in the Mix Station preset mode.
  Once the Mix Station preset mode is set, you can enter the same mode by just pressing [Q/⮌] once in step 2.
  Pressing [Q/⮌] twice allows you to return to the normal Station preset mode.

Auto memory

You can automatically store 18 (FM)/ 6 (AM) stations with good reception in the memory.

1 **Press [SRC] and select an HD Radio ("HD RADIO") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.

3. **Select "Settings" > "Auto Memory" using [Control] knob.**

4. **Select "YES" using [Control] knob.**
   When 18 (FM)/ 6 (AM) stations that can be received are stored in the memory, the process in the Auto memory is completed.

Recall preset station

Recall the stations in the memory.

1. **Press [▲] to select a band.**
2. **Press [🔍/⮌].**
   Enter the Preset memory mode.
3. **Select a memory number (FM: "1" – "18", AM: "1" – "6") using [Control] knob.**

iTunes tagging

You can stores the tag of the information about the song being received, and send it to the connected iPod.
You can easily find the song on the iTunes Store according to the tag sent to the iPod.

1. **Press and hold [▲].**
   "TAG" will be indicated on the display when song information can be registered.
   "TAG Storing" is indicated on the display while a tag is being stored in this unit. "TAG Stored" is indicated on the display after the tag has been stored.
   When your iPod is connected to this unit, "TAG Transferred" is indicated on the display and the tag is sent to the iPod.

▼ **How to use tags**
   - The song corresponding to the tag sent to the iPod is indicated in the playlist of the synchronized iTunes or iPod.
   By clicking your desired song in the playlist, you can easily find it on the iTunes Store and buy it from the iTunes Store.

▼ **While "TAG Storing" is displayed**
   - Do not switch the source or remove the iPod while "TAG Storing" is indicated.
   TAG will not be saved and cause a communication error in this unit.

Direct access tuning

(Function of remote control)
You can tune to a station directly by entering its frequency or channel.

1. **Press [DIRECT] on the remote control.**
   "– – – –" appears and enter the Direct access tuning mode.
2. **Press [DIRECT] on the remote control to Select a direct access tuning method.**

Tuning method	Display
Frequency	"– – – –"
Channel	"HD –"
Exiting Direct Access Tuning	—

3. **Press the number buttons on the remote control to enter the frequency or channel.**
   Example of frequency input:

Desired frequency	Press button
92.1 MHz (FM)	[9], [2], [1]
810 kHz (AM)	[8], [1], [0]

4. **Press [ENT] on the remote control.**

Exiting Direct access tuning mode

Press [⏎] on the remote control.

HD Radio tuner setting

You can set the HD Radio tuner-related items.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Settings" using [Control] knob.**
3. **Select a HD Radio tuner setting item using [Control] knob.**

Display	Description
"IF Band"	**Auto**: Increases the tuner selectivity to reduce interference noises from adjacent stations. (Stereo effect may be lost.) **Wide**: Subjects to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
"Seek Mode"	Sets the HD Radio seek mode. **Auto1**: Automatic search for a station. **Auto2**: Search in order of the stations in the preset memory. **Manual**: Normal manual tuning control.
"Receive Mode"	Sets the HD Radio receive mode. **Auto**: Automatically tunes to an analog broadcast when there is no digital broadcast. **Digital**: Digital broadcasts only. **Analog**: Analog broadcasts only.
"TAG Memory"	Displays the tag memory usage of the HD Radio tuner and SiriusXM tuner. Up to 50 tags can be registered in this unit.
"Tagging"	Turns ON / OFF the iTunes tag memory function of HD Radio tuner. **"ON"** / **"OFF"**

(**Colored text**: Factory setting)
4. **Select a setting using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

Press and hold [⚲/⏎].

Selecting a display type

Shown below are examples of display types.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "DISP&ILLUMI" > "Display Select" > "Type Select" using [Control] knob.**

3. **Select a Display type using [Control] knob.**

Display type	Display information
Type A	Displays 3 lines of text.
Type B	Displays 2 line of text.
Type C	Displays the clock.
Type D	Displays the Spectrum analysis[1]/Motion graphics[2].
Type E[3]	Turn off the display and key illumination. (5 seconds after completion of operation)

[1] Function of KDC–X997/ KDC–BT955HD.
[2] Function of KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U/ KMR–555U.
[3] Function of KDC–X997/ KDC–BT955HD/ KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U.

Exiting from the Function setting mode

Press and hold [/].

Information display setting

You can set the side and graphic parts of the display.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2 **Select "DISP&ILLUMI" > "Display Select" using [Control] knob.**

3. **Select a display setting item using [Control] knob.**

Display	Description
"Side Select"	Sets the side part display for Type A, B, and D. **1 / 2 / 3 (Type A, B only)**
"Graphic Select"[1]	Sets the Type D Spectrum analysis display. **1 / 2**
"Status"	Sets the status display (ON/OFF indicator for each function) for Type A and B.[2] **"ON" / "OFF"**

(**Colored text**: Factory setting)
[1] Function of KDC-X997/ KDC-BT955HD.
[2] The status display automatically turns "OFF" during aha source and cannot be switched to ON.

4. **Select a setting using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

Press and hold [/].

Illumination color selection

(Function of KDC-X997/ KDC-BT955HD/ KDC-X897/ KDC-BT855U/ KDC-X697/ KDC-655U)
You can select the illumination color of the panel.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "DISP&ILLUMI" > "Color Select" using [Control] knob.**

3. **Select a illumination part using [Control] knob.**

Display	Part
"Color SEL All"	All
"Color SEL Display"	Display
"Color SEL Key"	Button

4. **Select a color ("Variable Scan"/ "Color1" — "Color24"/ "User") using [Control] knob.**

Exiting from the Function setting mode

Press and hold [◌/⏎].

Adjusting the Illumination color

(Function of KDC–X997/ KDC–BT955HD/ KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U)
You can adjust the illumination color of the panel.

1. **Select the illumination color you want to adjust.**

   >.
2. **Press and hold [Control] knob.**
   The RGB value of the selected illumination color is displayed and enters the Details color adjustment mode.
3. **Set the color.**

Operation type	Operation
To select the color to adjust (Red, Green, or Blue)	Press [◄◄] or [►►].
To adjust color (Range: 0 – 9)	Turn [Control] knob.
Determination of the adjusted color.	Press [Control] knob.

   The color you created can be called by selecting "User".

Exiting from the Function setting mode

Press and hold [⌕/⬐].

Selecting a text display

You can change the information displayed on each of the following sources:

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "DISP&ILLUMI" > "Display Select" > "Text Select" using [Control] knob.**

3. **Press [▲] or [▼] to select a text display part.**
   The selected text display part blinks.
4. **Select a text display using [Control] knob.**

On Audio file/ iPod source

Information	Display
Song title*	"Song Title"
Album name*	"Album Name"
Artist name*	"Artist Name"
Title and Artist name**	"Title/Artist"
Album and Artist name**	"Album/Artist"
Folder name	"Folder Name"
File name	"File Name"
Play time	"P–Time"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"
Date	"Date"
Blank	"Blank"

On Pandora source

Information	Display
Song title*	"Song Title"
Artist name*	"Artist Name"
Album name*	"Album name"
Title and Artist name**	"Title/Artist"
Album and Artist name**	"Album/Artist"
Station name	"Station Name"
Play time	"P–Time"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"
Date	"Date"
Blank	"Blank"

On iHeartRADIO source

Information	Display
Station Name	"Station Name"
Song title*	"Song Title"
Artist name*	"Artist Name"
Title and Artist name**	"Title/Artist"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"
Date	"Date"

On CD source

Information	Display
Disc title	"Disc Title"
Track title	"Track Title"
Play time	"P–Time"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"
Date	"Date"
Blank	"Blank"

`KDC–X997` `KDC–BT955HD`

On HD Radio tuner source

Information	Display
Frequency	"Frequency"
Station name	"Station Name"
Artist name*	"Artist Name"
Song title*	"Song Title"
Album name*	"Album Name"
Artist name and Song title**	"Artist/Title"
Artist name and Album name**	"Artist/Album"
Spectrum analysis and Clock	"Speana/Clock"
Date	"Date"
Blank	"Blank"

`KDC–X897` `KDC–BT855U` `KDC–X697` `KDC–655U` `KMR–555U`

On Tuner source

Information	Display
Station name (FM)	"Station Name"
Radio text + (FM)	"Radio Text +"
Radio text (FM)	"Radio Text"
Clock	"Clock"
Date	"Date"
Blank	"Blank"
Frequency	"Frequency"
Song title (FM)*	"Song Title"
Artist name (FM)*	"Artist Name"
Title & Artist name (FM)**	"Title/Artist"

`KDC–X997` `KDC–BT955HD` `KDC–X897` `KDC–BT855U`

On Bluetooth audio source

Information	Display
Play time	"P–Time"
Song title*	"Song Title"
Album name*	"Album Name"
Artist name*	"Artist Name"
Song title and Artist name**	"Title/Artist"
Album name and Artist name**	"Album/Artist"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"

On Auxiliary input source

Information	Display
Source name	"Source Name"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"
Date	"Date"
Blank	"Blank"

On Standby

Information	Display
Source name	"Source name"
Clock	"Clock"
Date	"Date"
Blank	"Blank"

On SiriusXM (Optional accessory) source

Information	Display
Channel number	"Channel Number"
Channel name	"Channel Name"
Artist name*	"Artist Name"
Song title*	"Song Title"
Content information*	"Content Info"
Artist name/Song title/Content information**	"Art/Song/Info"
Category name	"Category Name"
Spectrum analysis and Clock[1]	"Speana/Clock"
Clock[2]	"Clock"
Date	"Date"
Blank	"Blank"

[1] Function of KDC–X997/ KDC–BT955HD.
[2] Function of KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U/ KMR–555U.
*Display type A only
**Display type B only

Exiting from the Function setting mode

Press and hold [🔍/↩].

▼ **Notes on text display**
- If the selected display item does not have any information, alternative information is displayed.
- Setting is available when the display type is A or B which allows text display.

- Some items cannot be selected depending on the display type and row.
- If you select "Folder name" while playing music on the iPod, names will be displayed depending on the currently selected browsing items.
- If you select the APP & iPod Control mode while playing music on the iPod, "APP & iPod Mode" appears.
- If all characters cannot be displayed while music is played on the iPod, the file number in the list is displayed.

Information	Display
Music title	"TITLE***"
Folder name	"FLD***"
File name	"FILE***"

- Text display cannot be switched during aha source.

Display & Illumination setting

You can set the display and illumination.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "DISP&ILLUMI" using [Control] knob.**

3. **Select a Display & Illumination setting item using [Control] knob.**

Display	Description
"DISP ILLUMI OFF"[1]	**"DISP&ILLUMI"** / **"DISP"**
"Display Dimmer"	Dims the display part in conjunction with the Light switch of the vehicle. **"Auto"**: Dims the display in conjunction with the Light switch of the vehicle. **"Manual1"**: Dims the display constantly. **"Manual2"**: Dims the display darker than that in the Manual1 mode. **"OFF"**: Does not dim the display.
"Contrast"	Sets the display contrast. **"1"** – **"10"** – **"30"**
"DISP NEGA/POSI"	Switches the panel display between positive and negative modes. **"NEGA1"**: Displays the text in the negative mode. **"NEGA2"**: When the interior light is off, the text is displayed in the negative mode; when the interior light is on, the text is displayed in the positive mode. **"POSI1"**: Displays the text in the positive mode. **"POSI2"**: When the interior light is off, the text is displayed in the positive mode; when the interior light is on, the text is displayed in the negative mode.
"Text Scroll"	Sets the method of scrolling to view hidden texts. **"Auto"** : Scrolls. **"Once"** : Scrolls once. **"OFF"** : Does not scroll.
"BT DVC Status"[2]	You can display the connection status, signal strength, and battery level. ▢ : Battery level of cell phone. ▢ : Signal strength of cell phone.
"ILLUMI Dimmer"	Reduces the key Illumination brightness. **"Auto"**: Dims the illumination in conjunction with the Light switch of the vehicle. **"Manual1"**: Dims the illumination constantly. **"Manual2"**: Dims the illumination darker than that in the Manual1 mode. **"OFF"**: Does not dim the illumination.
"ILLUMI Effect"	Sets whether the key illumination is changed in conjunction with the key operation. **"ON"** / **"OFF"**
"ILLUMI MSC SYNC"[3]	Sets whether the key illumination color is changed in conjunction with the sound volume. **"ON"** / **"OFF"**

(**Colored text**: Factory setting)
[1] Function of KDC–X997/ KDC–BT955HD/ KDC–X897/ KDC–BT855U/ KDC–X697/ KDC–655U.
[2] Function of KDC–X997/ KDC–BT955HD/ KDC–X897/ KDC–BT855U.
[3] Function of KDC–X997/ KDC–BT955HD.

4. **Select a setting using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

   Press and hold [🔍/⤺].

Adjusting the date

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Settings"   "Clock&Date"   "Date Adjust" using [Control] knob.**

3. **Set the year using [Control] knob.**
4. **Set the month using [Control] knob.**
5. **Set the day using [Control] knob.**

Exiting from the Function setting mode

   Press and hold [Q/⬑].

Clock & date display type setting

You can set the display type of the clock and calendar.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2 **Select "Settings" > "Clock&Date" using [Control] knob.**

3. **Select a Clock & Date setting item using [Control] knob.**

Display	Description
"Time Synchronized"	Synchronizes this unit's clock with the radio data system station's time data. **"ON"** / **"OFF"**
"Date Mode"	Sets the date display mode. **7 types**

(**Colored text**: Factory setting)

4. **Select a setting using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

Press and hold [Q/⤺].

Auxiliary input display setting

You can set the display when switched the AUX source.

1 Press [SRC] and select an Auxiliary Input ("AUX") source using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.

3 Select "Settings" > "AUX Name Set" using [Control] knob.

4. Select a display ("AUX", "DVD", "PORTABLE", "GAME", "VIDEO", or "TV") using [Control] knob.

Exiting from the Function setting mode

Press and hold [Q/⤺].

Muting the audio upon reception of a phone call

Function of KDC–X697, KDC–655U, KMR–555U
The audio system automatically mutes when it receives an incoming call.

When a call comes in

"CALL" appears.
The audio system pauses.

Listening to the audio during a call

Press [SRC].
The "CALL" display disappears and the audio system comes back ON.

When the call ends

Hang up the phone.
The "CALL" display disappears and the audio system comes back ON.

▼ **To use this function**
- To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connecting wires to terminals> in Quick start guide.

Demonstration mode setting

You can turn on/off the demonstration mode.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "DEMO Mode" using [Control] knob.**

3. **Select a setting ("ON" or "OFF") using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

   Press and hold [⌕/⤺].

Initial settings

You can configure initial settings of this unit.

1   **Press [SRC] and select a Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
    Enters the Function setting mode.

3   **Select "Initial Settings" using [Control] knob.**

4. **Select an Initial setting item using [Control] knob.**

Display	Description
"SRC Select"	Set source selection method. **"1"**: The source switches each time [SRC] is pressed. **"2"**: Press [SRC], Turn [Control] knob to select the source, and then press [Control] knob to determine it.
"Key Beep"	Setting the operation check sound (beep sound) ON/OFF. **"ON"** / **"OFF"**
"Function Language"	Changes the display language of items displayed in the Function setting mode. **"English"** / **"Français"** / **"Español"**
"Pandora Source"	Sets whether to display Pandora during source selection. **"ON"** / **"OFF"**
"iHeartRADIO Source"	Sets whether to display iHeartRADIO during source selection. **"ON"** / **"OFF"**
"aha Source"[2]	Sets whether to display aha during source selection. **"ON"** / **"OFF"**
"Built-in AUX"	Sets whether to display AUX during source selection. **"ON"** / **"OFF"**
"CD Read"	Sets the method for reading CD. When unable to play a special format CD, set this setting to "2" to force playing. Note that some music CDs may be unplayable even when set to "2". In addition, audio files cannot be played when set to "2". Normally, keep this set to "1". **1**: Automatically distinguishes between the audio file disc and music CD when playing a disc. **2**: Forces playing as a music CD.
"TAG Transfer Setup"	When iPods are connected to both the front and rear USB terminals, select the iPod to which the tag stored through iTunes tagging is to be transferred. **"FRONT"** / **"REAR"**
"Built-in AMP"	Selecting "OFF" turns off the built-in amplifier. Turning off the built-in amplifier improves the quality of the sound from Preout. **"ON"** / **"OFF"**
"Speaker Select"[1]	Sets the speaker type so that the System Q value is optimal. **"OFF"**: OFF **"5/4inch"**: For 5 & 4 in. speaker **"6x9/6inch"**: For 6 & 6x9 in. speaker **"O.E.M."**: For the OEM speaker
"F/W Update"	Upgrades the firmware. Selecting "YES" and then pressing [Control] knob starts upgrading the firmware. For how to update the firmware, access our web site.

(**Colored text**: Factory setting)
[1] Function of KDC-X897/ KDC-BT855U/ KDC-X697/ KDC-655U/ KMR-555U.
[2] Function of KDC-X997/ KDC-BT955HD/ KDC-X897/ KDC-BT855U.

5. **Select a setting using [Control] knob.**
    Returns to the previous item.

Exiting from the Function setting mode

Press and hold [⚲/⤴].

About the Bluetooth module

This unit conforms to the following Bluetooth specifications:

Version

- Bluetooth Ver. 2.1+EDR Certified

Profile

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

▼ **Notes**

- 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.
- HFP is a profile used to make a hands-free call.
- OPP is a profile used to transfer data such as a phone book between units.

15-2. Registering a Bluetooth device

You can register your Bluetooth device in this unit.

1. **Start registering a unit by operating the Bluetooth device.**
   Operate the Bluetooth device to request this unit for connection.
   The name of this unit ("KDC-####") is displayed on the Bluetooth device.
   When "Paring Press the volume knob" appears on this unit, operate step2.
2. **Press [Control] knob.**
   Pairing starts. When pairing is completed, "Pairing Success" appears.
   Some Bluetooth device requests you to enter a PIN code. The PIN code is set to "0000" as default.

Selecting the Bluetooth device you wish to connect

When two or more Bluetooth devices have already been registered, you need to select the Bluetooth device you wish to use.

1. **Press [⤳].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Settings" > "Pairing" > "Phone Selection" (to select the cell phone) or "Audio Selection" (to select the audio player) using [Control] knob.**
3. **Select a Bluetooth device using [Control] knob.**
   '*(name)' or '–(name)' is displayed.
   "*": The selected Bluetooth device is busy.
   "–": The selected Bluetooth device is on standby.
   " " (blank): The Bluetooth device is deselected.

Exiting from the Bluetooth mode
   Press [⤳].

▼ **When no device can be selected**
   - If a cell phone is already selected, deselect it, and then select a different one.
   - If you cannot select a device using the audio player, connect the device with the audio player.

Deleting a registered Bluetooth device

You can delete a registered Bluetooth device.

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2 **Select "Settings" > "Pairing" > "Device Delete" using [Control] knob.**

3. **Select a Bluetooth device using [Control] knob.**
4. **Select "YES" using [Control] knob.**
   "Completed" appears.

Exiting from the Bluetooth mode

   Press [📞].

▼ **When a registered device is deleted**
  ● When a registered cell phone is deleted, its phone Book and log are also deleted.

15-5. Bluetooth device registration test

You can check whether a Bluetooth device can be registered by operating this unit.

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "BT Test Mode" using [Control] knob.**
3. **Start registering a unit by operating the Bluetooth device.**
   "Please paring your phone" appears.
   Operate the Bluetooth device to request this unit for connection.
   The name of this unit ("KDC-####") is displayed on the Bluetooth device.
   Some Bluetooth device requests you to enter a PIN code. The PIN code is set to "0000" as default.
4. **Press [Control] knob.**
   When pairing is completed successfully, a connection test starts automatically.
   When the connection test is completed, test results are displayed on a function basis ("OK": Enabled; "NG": Disabled).

Display	Description
"Pairing"	Registration in this unit
"HF Connect"	Hands-free phoning
"AUD Connect"	Audio playback
"PB Download"	Phone Book downloading

5. **Press [Control] knob.**
   Exits the test mode.

Receiving a call

You can answer a phone call
>   **Press [📞].**

▼ **Either of the following operations will disconnect the line.**
- Inserting a CD.
- Connecting a USB device.

Rejecting an incoming call
>   **Press [SRC].**

Calling a number in the phone book

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Phone Book" using [Control] knob.**
3. **Turn [Control] knob to select a name, and then press [Control] knob.**
4. **Turn [Control] knob to select a phone number.**
5. **Press [📞].**

   Makes a call.

Dialing a number

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Number Dial" using [Control] knob.**

3. **Enter a phone number.**

Operation type	Operation
Selection of number	Turn [Control] knob.
Selection of digit	Press [◄◄] or [►►].

4. **Press [📞].**
   Makes a call.

▼ **Number of digits that can be input**
   - You can input a maximum of 32 digits.

Calling a number in the call log

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Call History" using [Control] knob.**

3. **Turn [Control] knob to select a name and phone number.**
   �”➤ : Incoming calls
   ◢ : Outgoing calls
   ∨ : Missed calls
   Pressing [Control] knob toggles between the name list and detailed display.
4. **Press [📞].**
   Makes a call.

Speed dialing (Preset dial)

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Preset Call" using [Control] knob.**

3. **Turn [Control] knob to select a recall number ("P1" – "P6").**
4. **Press [📞].**
   Makes a call.

Registering in the preset dial number list

1. **Press [☎].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Enter the phone number you wish to register**
3. **Press and hold [Control] knob.**
4. **Turn [Control] knob to select a memory number ("P1" – "P6").**
5. **Press and hold [Control] knob.**

Exiting from the Bluetooth mode

   Press [☎].

Disconnecting a call

Press [⌒].

Switching to the Private mode

Press [|◄◄] or [►►|].
Pressing this knob each time switches between the private talk mode ("PRIVATE") and hands-free talk mode.

▼ **When the previous source is restored in the Private mode**
● Depending on the type of your cell phone, switching to the private talk mode may select the source that was used before commencing the hands-free connection. If this happens, the source cannot be switched back to the hands-free talk mode by operating this unit. Operate your cell phone to return to the hands-free talk mode.

Adjusting the voice volume during a call

Turn [Control] knob.

Clearing the disconnection message

1. Press [📞].
"HF Disconnect" disappears.

Voice Control

This unit can access the voice recognition function of the connected cell phone. You can search the phone book by voice. (The function depends on the cell phone.)

1. **Press and hold [📞].**
   "Voice Control" appears and enter the Voice control mode.
2. **Start speaking.**
   Speak a voice tag, etc. registered in the cell phone.

Display of phone number types (categories)

The category items in the phone book are displayed as follows:

Display	Information
"General" /	General
"Home" /	Home
"Office" /	Office
"Mobile" /	Mobile
"Other" /	Other

Before use

- You need to register your Bluetooth audio player before using it with this unit.

- You need to select the Bluetooth audio player you wish to connect.

Basic operations

Selecting a Bluetooth audio source
1. **Press [SRC].**
   Enters the Source selection mode.
2. **Select a Bluetooth audio ("BT AUDIO") source using [Control] knob.**

Pause and play a song
Press and hold [Q/⬑].

Selecting a song
Press [◄◄] or [►►I] button.

Fast-forwarding or fast-backwarding a song
Press and hold [I◄◄] or [►►I].

Selecting an audio file folder
Press [▲] or [▼] button.

▼ **Preparation for using the Bluetooth audio player**
- All or some of the operations above cannot be performed if the Bluetooth audio player is not ready for remote control.
- Switching between Bluetooth audio sources does not start or stop playback automatically. Perform the operation for starting or stopping playback.
- Some audio players cannot be controlled remotely or reconnected after Bluetooth disconnection. Operate the main unit of the audio player to connect a Bluetooth device.

Playback mode

You can select a playback mode, such as Random play and Repeat play.

1. **Press [SRC] and select a Bluetooth audio ("BT AUDIO") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Play Mode" using [Control] knob.**

4. **Select a playback mode function using [Control] knob.**

Display	Description
"Random"	When set to "ON", plays the songs randomly. ☑ (ON) / ☐ (OFF)
"All Random"	When set to "ON", plays the all songs randomly. ☑ (ON) / ☐ (OFF)
"File Repeat"	When set to "ON", plays the select songs repeatedly. ☑ (ON) / ☐ (OFF)
"All Repeat"	When set to "ON", plays the all songs repeatedly. ☑ (ON) / ☐ (OFF)

5. **Press [Control] knob.**
   The setting is changed.

Exiting from the Function setting mode

Press and hold [⌕/⤺].

▼ **Available functions**
- The available playback functions differ depending on the type of the connected Bluetooth audio player.

Registering the PIN code

By operating the Bluetooth device, specify the PIN code necessary for registering this unit.

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Settings" > "Detailed Settings" > "PIN Code Edit" using [Control] knob.**

   Input the PIN code

Operation type	Operation
Selection of numbers	Turn [Control] knob.
Movement to the next digit	Press [▶▶l].
Deletion of the last digit	Press [l◀◀].
Transmission of PIN code	Press [Control] knob.

   If "Completed" appears and registration is complete.

Exiting from the Bluetooth mode

Press [📞].

▼ **Notes on PIN code input**
- By default, "0000" is specified.
- A PIN code can be specified with up to eight digits.

Downloading the phone book

If the phone book is not downloaded automatically to this unit to which a cell phone − which is not compatible with PBAP − is connected, download it in the following manner:

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Settings" > "Transfer Phonebook" using [Control] knob.**
   When downloading starts, "Downloading ###" appears.
   When downloading is completed, "Completed" appears.

Exiting from the Bluetooth mode
   Press [📞].

▼ **Maximum number of phone numbers that can be registered**
   - Of all registered mobile phones, a total of 4000 phones number can be registered.
   - Up to 32 digits can be registered for each phone number along with up to 32* characters representing a name.
     (*32: Number of alphabetical characters. Fewer characters can be input depending on the type of characters.)

▼ **Cancellation of downloading**
   - To cancel downloading of the phone book data, operate the cell phone.

Deleting the phone book

You can delete the phone book stored in this unit to which a cell phone − which is not compatible with PBAP − is connected.

1. **Press [☎].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Phone Book" using [Control] knob.**
3. **Turn [Control] knob to select the name to be deleted.**
4. **Press and hold [Control] knob.**
5. **Select the item to be deleted using [Control] knob.**

Display	Item to be deleted
"Delete Name"	All phone numbers registered for the selected name are deleted.
"Delete Number"	One of the phone numbers registered for the selected name is deleted.
"Delete All"	All phone numbers registered in the phone book are deleted.

   When you selected "Delete Number", next select the number you want to delete using [Control] knob.
6. **Select "YES" using [Control] knob.**
   "Completed" appears.

Exiting from the Bluetooth mode

   Press [☎].

Displaying the firmware version

You can view the version of the firmware of this unit.

1. **Press [📞].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Settings" > "Detailed Settings" > "BT F/W Update" using [Control] knob.**

Exiting from the Bluetooth mode

   Press [📞].

Switching between two connected cell-phones

When two Bluetooth devices are connected, you can assign the Bluetooth device to be used in priority to the other Bluetooth device.

1. **Press [☎].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Device Priority" using [Control] knob.**
3. **Select a "Sub -###-" using [Control] knob.**
   "Main": Device used normally.
   "Sub": Device used only for call reception.
4. **Press [Control] knob.**

Exiting from the Bluetooth mode

Press [☎].

Bluetooth detail setting

You can configure the initial settings of this unit.

1. **Press [☎].**
   "BT MODE" appears and enter the Bluetooth mode.
2. **Select "Settings" > "Detailed Settings" using [Control] knob.**
3. **Select a Bluetooth detail setting item using [Control] knob.**

Display	Description
"Auto Answer"	Automatically answers a call after lapse of the preset time interval. **"OFF"**: Does not answer the phone call automatically. **"1SEC"** – **"8SEC"** – **"99SEC"**: Automatically answers the phone call after lapse of 1 – 99 seconds.
"Auto Reconnect"	When set to "ON", starts re-pairing with the registered Bluetooth device automatically when it becomes unpaired. **"ON"** / **"OFF"**
"Auto Pairing"	When set to "ON", the Apple Auto Pairing function is turned on to automatically register the iPod touch or iPhone connected to this unit. **"ON"** / **"OFF"**
"Bluetooth HF/Audio"	Specifies the output speakers for hands-free voice communication and Bluetooth audio sound. **"Front"** : Outputs sound from the front speakers. **"All"** : Outputs sound from the front and rear speakers.
"Call Beep"	Sets whether to output a beep from the speaker when a call comes in. **"ON"** : Outputs a beep. **"OFF"** : Does not output a beep.
"MIC Gain"	Adjusts the sensitivity of the microphone for telephone call or adjusts the voice of the caller. **"–20"** – **"0"** – **"+8"**
"Echo Cancel Level"	Sets the echo cancellation level. **"1"** – **"4"** – **"10"**

(**Colored text**: Factory setting)

4. **Select a setting using [Control] knob.**
   Returns to the previous item.

Exiting from the Bluetooth mode

Press [☎].

Before use

- SiriusXM Satellite Radio operation requires the connection of the optional SiriusXM-Connect Vehicle Tuner. To activate the SiriusXM Vehicle Connect tuner, you will need the Radio ID.

Make a note of your Radio ID

For each SiriusXM Vehicle Connect tuner, a unique Radio ID is assigned. To confirm your Radio ID, tune to channel 0. The letters I, O, S and F are not used in any Radio ID.
The Radio ID is also located on the label of the SiriusXM Connect Vehicle Tuner.

Listening to the SiriusXM™ Satellite Radio

Selecting a tuner source

1. **Press [SRC].**
   Enters the Source selection mode.
2. **Select a SiriusXM ("SiriusXM") source using [Control] knob.**

Selecting a channel

Press [◄◄] or [►►].
The seek mode can be changed. Refer to <Selecting a Seek mode> (refer to below).

Selecting a Seek mode

Press [▼].

Display	Operation
"Channel"	Normal manual seeking.
"Preset"	Searches in order of the channels in the preset memory.

Station preset memory

1. **Press [◄◄] or [►►] to select the station.**
2. **Press [/] twice.**
3. **Turn [Control] knob to select a memory number ("1" – "24").**
4. **Press and hold [Control] knob.**

Recalling the stations in the memory

1. **Press [/] twice..**
2. **Select a preset number "1" – "24") using [Control] knob.**

▼ **About Smart Favorites**
 • Data for Replay is automatically stored in the station memory number 1 though 6. (Smart Favorites function)

Category and channel search

You can select the channel and category you want to receive.

1. **Press [🔍/⏎].**
   "Category Search" appears and enter the Category and Channel search mode.
2. **Select a category using [Control] knob.**
3. **Select a channel using [Control] knob.**

Exiting the Category and Channel search mode

Press and hold [🔍/⏎].

▼ **Until channel selection is enabled**
  ● You cannot search for a channel until the category information is acquired.

Channel preset memory

You can store a channel in the memory.

1. **Press [⏮] or [⏭] to select the channel.**
2. **Press [🔍/↩] twice.**
   Enter the Preset memory mode.
3. **Turn [Control] knob to select a memory number ("1" – "24").**
4. **Press and hold [Control] knob.**

Exiting from the Preset memory mode

Press and hold [🔍/↩].

▼ **About the Mix Station preset mode**
- If you press [🔍/↩] three times in step 2, the Mix Station preset mode is selected with "Mixed Preset List" displayed.
  In this mode, different bands and tuner sources (FM, AM, SiriusXM, HD Radio tuner etc.) can be saved in the same preset layer, which allows you to recall the desired station without switching between bands or tuner sources.
  A maximum of six stations can be preset in the Mix Station preset mode.

Preset tuning

Recalling a channel from the memory.

1. **Press [🔍/↩] twice.**
   Enter the Preset memory mode.
2. **Select a memory number ("1" – "24") using [Control] knob.**
   Enter the Preset memory mode.

Exiting from the Preset memory mode

Press and hold [🔍/↩].

Tune Start™

When tuning stations using the first 1–6 presets, songs will play from the beginning of each track if Tune Start is enabled.

▼ **Note**
- Tune Start may take a few minutes to operate after a power cycle.

Direct access tuning

(Function of remote control)
You can search for a channel directly by entering its number.

1. **Press [DIRECT] on the remote control.**
2. **Press the number buttons on the remote control to enter the frequency.**
3. **Press [ENT] on the remote control.**

Exiting from the Direct access tuning mode

Press [⏎] on the remote control.

▼ **Automatic cancellation**
- If you operate no button for 10 seconds, the Direct Access Tuning mode is automatically canceled.

iTunes tagging

You can store the tag of the information about the song being received, and send it to the connected iPod. You can easily find the song on the iTunes Store according to the tag sent to the iPod.

1. **Press and hold [▲].**
   "TAG" will be indicated on the display when song information can be registered.
   "TAG Storing" is indicated on the display while a tag is being stored in this unit. "TAG Stored" is indicated on the display after a tag is stored.
   When your iPod is connected to this unit, "TAG Transferred" is shown on the display and a tag is sent to the iPod.

▼ **Effective use of iTunes**
  - The song corresponding to the tag sent to the iPod is indicated in the playlist ("Tagged") of the synchronized iTunes.
    By clicking your desired song in the playlist, you can easily find it on the iTunes Store and buy it from the iTunes Store.

▼ **While "TAG Storing" is displayed**
  - Do not switch the source or remove the iPod while "TAG Storing" is indicated.
    TAG will not be saved and cause a communication error in this unit.

Parental Lock setting

You can turn on/off Parental Lock for each channel.

1 Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.

3 Select "Settings" > "Parental Lock" using [Control] knob.

4. Enter the pass code.

Operation type	Operation
Selection of numbers.	Turn [Control] knob.
Determination of the selected numbers.	Press [Control] knob.
Selection of column	Press [I◀◀] or [▶▶I].
Deletion of all numbers	Press and hold [I◀◀].

5. Select "Lock CH Edit" using [Control] knob.
A category list is displayed.

6. Select the category of the channel subject using [Control] knob.
The list of the channels in the selected category is displayed.

7. Select a channel using [Control] knob.
Parental Lock for the selected channel is turned on and off alternately each time you press [Control] knob.
"🔒" is indicated for the selected channel.

Exiting from the Function setting mode

Press and hold [🔍/↩].

Clearing the Parental Lock setting

You can clear the Parent Lock setting for each channel.

1 **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3 **Select "Settings" > "Parental Lock" using [Control] knob.**

4. **Enter the pass code**

Operation type	Operation
Selection of numbers.	Turn [Control] knob.
Determination of the selected numbers.	Press [Control] knob.
Selection of column	Press [◄◄] or [►►I].
Deletion of all numbers	Press and hold [I◄◄].

5. **Select "Lock CH All Clear" using [Control] knob.**
6. **Select "Yes" using [Control] knob.**
   "Completed" appears.

Exiting from the Function setting mode

Press and hold [🔍/🔙].

▼ **Pass code setting**
   • The pass code is set to "0000" as default.

Setting Parental Lock for Mature content

You can turn on/off Parental Lock for the adult channels assigned by SiriusXM.

1 Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.

2. Press [Control] knob.
Enters the Function setting mode.

3 Select "Settings" > "Parental Lock" using [Control] knob.

4. Enter the pass code

Operation type	Operation
Selection of numbers.	Turn [Control] knob.
Determination of the selected numbers.	Press [Control] knob.
Selection of column	Press [I◀◀] or [▶▶I].
Deletion of all numbers	Press and hold [I◀◀].

5. Select "Mature Set" using [Control] knob.

6. Select "ON" using [Control] knob.
Selecting "OFF" will turn off the Mature setting.

Exiting from the Function setting mode

Press and hold [◯/⬏].

▼ **Pass code setting**
- The pass code is set to "0000" as default.

▼ **Listening to the channel for which Parental Lock is turned on**
- If a Mature channel is selected with the Mature setting turned on, the pass code input screen appears. Programs on the selected channel can be received only when the pass code is correct.

Parental Lock pass code setting

You can set a new pass code for Parental Lock setting.

1. **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.

3. **Select "Settings" > "Parental Lock" using [Control] knob.**

4. **Enter the pass code**

Operation type	Operation
Selection of numbers.	Turn [Control] knob.
Determination of the selected numbers.	Press [Control] knob.
Selection of column	Press [◄◄] or [►►].
Deletion of all numbers	Press and hold [◄◄].

5. **Select "Passcode Set" using [Control] knob.**
   "Enter new code" appears.

6. **Enter a new pass code in the same manner as in step 4.**

7. **Enter the same pass code as that entered in step 6.**
   The old pass code is changed to the new one and "Completed" appears.

Exiting from the Function setting mode

Press and hold [Q/⤶].

▼ **Pass code setting**
- The pass code is set to "0000" as default.

Setting the Song and Artist Alerts

When the broadcast of the song by the registered artist or the broadcast of the registered song starts, a message appears to allow you to switch the current source to the desired channel, even though the receiving source is other than SiriusXM Satellite Radio.

Registering content

1. **Receive the content you wish to register.**
2. **Press and hold [Control] knob.**
3. **Select a content type using [Control] knob.**
   "Store Artist?": Store artist information.
   "Store Song?": Store song information.
   "Artist Stored" or "Song Stored" appears.

▼ **Number of content alerts that can be stored**
- You can register a total of 50 types of content including both artists and songs.

When a Song or Artist Alerts occurs

1. **A content alert message is displayed.**
   When multiple content alerts occur, a content name is displayed one after another. The previous content name can be displayed and selected by the operation in step 3.
   A content alert message is displayed for five seconds from the last content alert.
   The following switching operation to your desired content can be performed while the message is being displayed.
2. **Press [Control] knob.**
3. **Select the content using [Control] knob.**
   The current source switches to the channel that is broadcasting the selected content.

Exiting Content Alert mode

   Press [/].

Song or Artist setting

You can turn on/off the content alert function.

1. **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Settings" > "Content Alert" > "Alert Set" using [Control] knob.**

4. **Select "ON" or "OFF" using [Control] knob.**

Exiting from the Function setting mode

Press and hold [Q/⬑].

Editing a Song or Artist item

You can enable or disable the registered content alert item individually.

1. **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**
2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Settings" > "Content Alert" > "Alert Item Edit" using [Control] knob.**
4. **Select a content type using [Control] knob.**
   "Artists": Set artist information.
   "Songs": Set song information.
5. **Select a setting using [Control] knob.**
   The selected Content Alert item is selected and deselected alternately each time you press [Control] knob.
   "*" is indicated for the selected item name.

Exiting from the Function setting mode

Press and hold [/].

Delete a Song or Artist item

You can delete the registered Content Alert item.

1. **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Settings" > "Content Alert" > "Alert Item Delete" using [Control] knob.**

4. **Select a content type using [Control] knob.**
   "Song Delete": Delete song information.
   "Artist Delete": Delete artist information.
   "All Delete": Delete all Content Alert items. Proceed to step 6.
5. **Select the Content Alert item using [Control] knob.**
6. **Select "Yes" using [Control] knob.**
   "Completed" appears.

Exiting from the Function setting mode

Press and hold [⊙/⤴].

SiriusXM Replay™

You can replay up to the last 60 minutes broadcasting of current channel.

1. **Press [▲].**
   Enter the Replay mode.
   The "REP" indicator stays lit during Replay mode.
   Search for the position to replay by the following operation.

Operation type	Operation
Pause and play	Press and hold [🔍/⏎].
Music search	Press [◄◄] or [►►].
Fast forward or Fast backward	Press and hold [◄◄] or [►►].
Returns to the live play position.	Press [▼].

Exiting from the Replay mode.

Press [▲].
The "REP" indicator disappears.

▼ **When the reception channel is changed**
- The stored content of the current channel is erased upon receiving another channel.

Channel skip setting

You can register the channel you wish to skip.

1 **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**

2. **Press [Control] knob.**
Enters the Function setting mode.

3 **Select "Settings" > "Channel Skip" > "Skip CH Edit" using [Control] knob.**

4. **Select the category of the channel using [Control] knob.**

5. **Select the channel using [Control] knob.**
The selected channel skip setting is turned on and off alternately each time you press [Control] knob.
"*" is indicated for the selected item name.

Exiting from the Function setting mode

Press and hold [⌕/⤺].

Clearing the channel skip setting

You can clear the skip setting for all the selected channels together.

1. **Press [SRC] and select a SiriusXM ("SiriusXM") source using [Control] knob.**
2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Settings" > "Channel Skip" > "CH All Clear" using [Control] knob.**
4. **Select "Yes" using [Control] knob.**
   "Completed" appears.

Exiting from the Function setting mode

Press and hold [Q/⬑].

SiriusXM tuner setting

You can set the SiriusXM tuner related items.

1. **Press [Control] knob.**
   Enters the Function setting mode.
2. **Select "Settings" using [Control] knob.**

3. **Select an SiriusXM tuner setting item using [Control] knob.**

Display	Description
"Seek Mode"	Sets the seek mode. **Channel**: Normal manual seeking. **Preset**: Searches in order of the channels in the preset memory.
"Tune Start"	**"ON"** / **"OFF"**
"Signal Level"	Displays the received signal strength of the SiriusXM tuner.
"Replay Buffer"	**"0%"** – **"100%"**
"TAG Memory"	Displays the tag memory usage of the HD Radio tuner and SiriusXM tuner. Up to 50 tags can be registered in this unit.
"Tagging"	Turns on/off the iTunes tag memory function of SiriusXM tuner. **"ON"** / **"OFF"**

(**Colored text**: Factory setting)
4. **Select a setting using [Control] knob.**
   Returns to the previous item.

Exiting from the Function setting mode

Press and hold [🔍/⤺].

Registering a remote control ID

When connecting the remote control KCA-RC107MR/ KCA-RC55MR (Optional accessory) to this unit, you should register the ID for KCA-RC107MR/ KCA-RC55MR.

1 **Press [SRC] and select a Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Initial Settings" > "Remote Settings" > "Remote ID Set" using [Control] knob.**
4. **Press [Control] knob.**
   "Registering..." appears.
5. **Register the remote control ID.**

Button on the remote control	Remote control ID
[ENTER]	Registers ID1.
[SRC]	Registers ID2.
[DISP]	Registers ID3.

"ID#Set:Completed" appears.

Exiting from the Function setting mode

Press and hold [🔍/⤺].

Delete the remote control ID

You can delete the ID registered for the remote control KCA–RC107MR/ KCA–RC55MR (optional accessory).

1. **Press [SRC] and select a Standby ("STANDBY") using [Control] knob.**

2. **Press [Control] knob.**
   Enters the Function setting mode.
3. **Select "Initial Settings" > "Remote Settings" > "Remote ID Delete" using [Control] knob.**

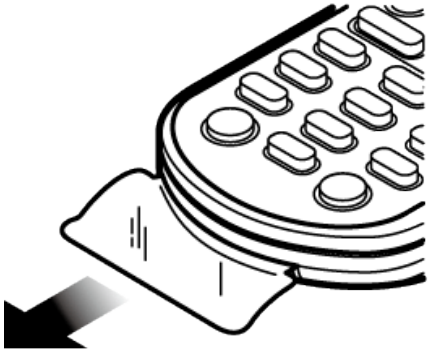   List of the IDs registered for remote controls is displayed.
4. **Select the remote control ID using [Control] knob.**
   "Remote ID Delete" appears.
5. **Select "YES" using [Control] knob.**
   "Remote ID Delete:Completed" appears.

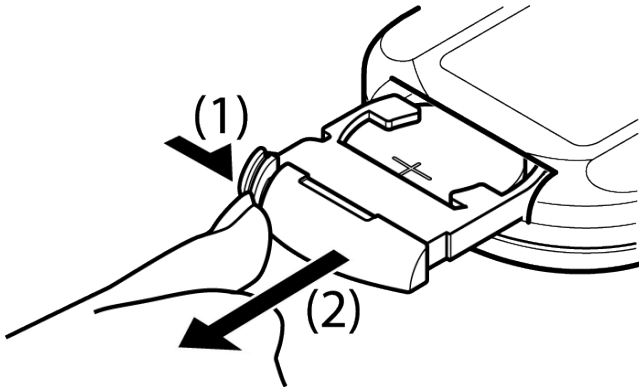*Exiting from the Function setting mode*

Press and hold [Q/⤴].

Preparing the remote control unit

Pull the battery sheet out from the remote control unit in the direction of the arrow.

## Changing the battery of the remote control unit

(1)

(2)

Use a commercially available button battery (CR2025). Insert the battery with the + side facing upward, following the illustration inside the case.

1. Keep on sliding.
2. Pull out.

⚠ CAUTION

- **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.**
- **Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.**
- **Do not set the remote control in hot places such as on the dashboard.**
- **The Lithium battery is in danger of explosion if replaced incorrectly. Replace only with the same or equivalent type.**
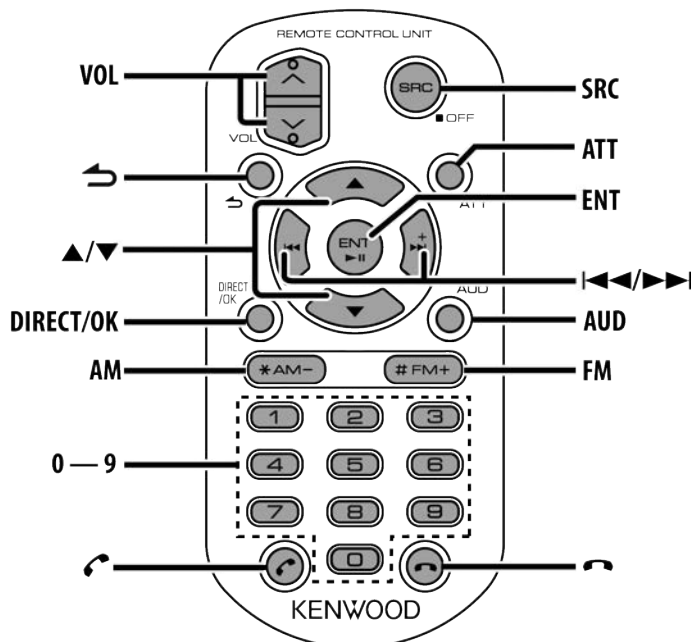
General control

- **Volume control: [VOL]**
- **Source selection: [SRC]**
  Press and hold the button to turn off the power.
- **Volume reduction: [ATT]**
  When the button is pressed again, the volume returns to the previous level.
- **Return to previous item: [⤺]**
- **Selection of item: [▲]/[▼]**
- **Determination: [ENT]**
- **Enter Audio Control mode: [AUD]**

▼ **About power on**
- The remote control cannot be used to turn the power on. Press [SRC] on the main unit.

On Tuner source

- **Band selection: [FM]/[AM]**
- **Station selection: [I◄◄]/[►►I]**
- **Recall preset stations: [0] – [9] ➜ [ENT]**

On HD Radio tuner source

- **Band selection: [FM]/[AM]**
- **Station selection: [I◄◄]/[►►I]**
- **Recall preset stations: [0] – [9] ➜ [ENT]**

On CD/Audio file source

- **Music selection: [I◄◄]/[►►I]**
- **Folder selection: [FM]/[AM]**
- **Pause/Play: [ENT]**
- **Enter the Music search mode: [▲]/[▼]**

- **Movement between folders/files during Music search mode: [▲]/[▼]**
- **Return to previous folder: [⏎]**

On iPod source

- **Enter Music search mode: [▲]/[▼]**
- **Movement between items during Music search mode: [▲]/[▼]**
- **Return to previous item: [⏎]**
- **Pause/Play: [ENT]**

On Pandora source

- **Music selection: [▶▶ɪ]**
- **Pause/Play: [ENT]**
- **Enter the station list mode: [▲]/[▼]**
  Select item: [▲]/[▼]
  Exit the station list mode: [⏎]

On Aha source

- **Selecting a content: [ɪ◀◀]/[▶▶ɪ]**
- **Pause/Play: [ENT]**
- **Enter the station search mode: [▲]/[▼]**
  Select item: [▲]/[▼]
  Exit the station search mode: [⏎]

On iHeartRadio source

- **Skip track (Custom station): [▶▶ɪ]**
- **Stop or Pause/Play: [ENT]**
- **Enter the station search mode: [▲]/[▼]**
  Select item: [▲]/[▼]
  Exit the station search mode: [⏎]

On SiriusXM tuner source

- **Channel selection: [ɪ◀◀]/[▶▶ɪ]**
- **Recall preset stations: [0] – [9] ➜ [ENT]**
- **Enter the Category and Channel search mode: [▲]/[▼]**

Hands-free phone control

Making a call

- **Enter Bluetooth mode: [☏]**
- **Select a dialing method: [▲]/[▼] ➜ [ENT]**
- **Number dial input:**
  Input a digit: **[0]** – **[9]**
  Input "+": **[▶▶ɪ]**
  Input "#": **[FM]**
  Input "*": **[AM]**
  Clear the entered phone number: [ɪ◀◀]
- **Make a call: [ENT]**

Receiving a call

- **Answer the call: [☏]**

Call waiting

- **Answer another incoming call with the current call suspended: [☏]**

During a call

- **End the call: [☎]**