# **KENWOOD**

# KDC-U40R KDC-U30R

CD-RECEIVER

## **INSTRUCTION MANUAL**

CD-RECEIVER

**BEDIENUNGSANLEITUNG** 

РАДИОПРИЕМНИК С КОМПАКТ-ДИСКАМИ **ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ** 

**АВТОМАГНІТОЛА** 

ІНСТРУКЦІЯ З ЕКСПЛУАТАЦІЇ

JVC KENWOOD Corporation









# **CONTENTS**

Safety	2
Preparation	4
How to attach/detach the faceplate How to reset your unit	
Basic operations	4
Getting started	6
Canceling the display demonstration Setting the demonstration mode Adjusting the clock Initial settings before operations	
Listening to the radio	8
Adjust [SETTINGS] mode settings	
Listening to the other external	
components	9
Start playing a disc Connecting a USB device Connecting an iPod (for KDC-U40R) Selecting Repeat Play Selecting Random Play Selecting a folder/track/file Functions of KDC-U40R with iPod Selecting a song by alphabet Selecting App & iPod Control Mode Adjust [SETTINGS] mode settings	
Function settings	13
Troubleshooting	14
Installation/connection  Basic procedure Warning Caution Wiring connection Installing the unit Removing the unit	16
Specifications	19

# **Safety**

#### WARNING

Stop the car before operating the unit.

#### Important to know...

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Caution: Adjust the volume so that you can hear sounds outside the car. Driving with the volume too high may cause an accident.
- Condensation: When the car is airconditioned, 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.
- This unit can only play the CDs with:



- The illustrations in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the illustrations may differ from what appears on the actual equipment.
- A USB connection cable, CA-U1EX (max.: 500 mA) (optional accessory) is required for connecting a USB device.
- You can connect an Apple iPod/iPhone with KDC-U40R

The word "iPod" appearing in this manual indicates the iPod or iPhone connected to this unit with a connection cable, KCA-iP102 (optional accessory).

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase external components, check with your Kenwood dealer to make sure that they work with your model and in your area.
- Detailed information and notes about the playable audio files are stated in an online manual on the following site: www.kenwood.com/cs/ce/audiofile/



# Declaration of Conformity with regard to the EMC Directive 2004/108/EC

#### Manufacturer:

JVC KENWOOD Corporation 3-12, Moriyacho, Kanagawa-ku, Yokohamashi, Kanagawa, 221-0022, Japan

#### EU Representative's:

Kenwood Electronics Europe BV Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

This Product is not installed by the manufacturer of a vehicle on the production line, nor by the professional importer of a vehicle into an EU Member State.

# The marking of products using lasers

CLASS 1 LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

#### For Turkey

Bu ürün 26891sayılı Resmi Gazete'de yayımlanan Elektrikli ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlandırılmasına Dair Yönetmeliğe uygun olarak üretilmistir.

This product complies with Directive, Number 26891 regarding "REGULATION ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EOUIPMENT".

## Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)



Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

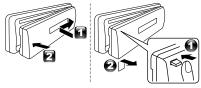


household waste.
Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.
Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

# **Preparation**

# How to attach/detach the faceplate

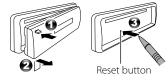


- Do not expose the faceplate to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Keep the faceplate in its casing while detached.
- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.

To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.

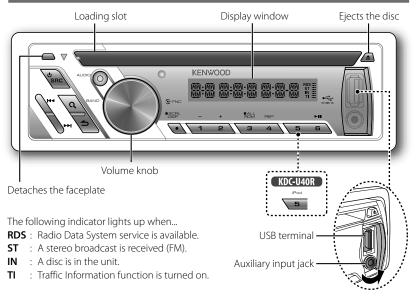
#### How to reset your unit

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



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

# **Basic operations**



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

Button	General operation		
ტ SRC	<ul> <li>Turns on.</li> <li>Turns off if pressed and held.</li> <li>Selects the available sources (TUNER, USB/ iPod, CD, AUX, STANDBY), if the power is turned on.</li> <li>If the source is ready, playback also starts.</li> <li>"iPod" or "CD" is selectable only when an iPod is connected or a disc is loaded.</li> </ul>		
Volume knob (turn)	■ Adjusts the volume level. ■ Selects items.		
Volume knob (press)	■ Confirms selection. ■ Enters [FUNCTION] settings.		
Q (BAND)	■ Selects the FM bands (FM1/ FM2/ FM3) or MW/LW when "TUNER" is selected as the source. ■ Enters Music Search mode.		
1 (-) / 2 (+)	(+) Selects the previous/next folder.		
6 (►II)	Pauses/resumes playback of a disc/ USB device/ iPod.		
<b></b>	<ul> <li>Searches for radio station.</li> <li>Selects track/file.</li> <li>Fast-forwards/reverses tracks if pressed and held.</li> </ul>		
SCRL DISP	<ul> <li>Changes the display information.</li> <li>Scrolls the display information if pressed and held.</li> <li>Enters clock adjustment mode directly (page 6) if pressed and held while in clock display screen.</li> </ul>		
AUDIO Enters [AUD CTRL] settings directly. (page 13)			
<b>5</b>	■ Returns to the previous item. ■ Exit from setting mode if pressed and held.		
5 (iPod)	For KDC-U40R: Enters the controlling mode (MODE ON/ MODE OFF) for iPod playback. (page 12)		

## Muting upon the reception of a phone call

To use this feature, connect the MUTE lead to your telephone using a commercial telephone accessory. (page 17)

When a call comes in, "CALL" appears.	When a call ends, "CALL"
■ The audio system pauses.	disappear.
■ To continue listen to the audio system during a call, press	■ The audio system resumes.
<b>♂ SRC</b> . "CALL" disappear and the audio system resumes.	

# **Getting started**

#### **Canceling the display demonstration**

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

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

 $[CANCEL] \Rightarrow [DEMO] \Rightarrow [PRESS] \Rightarrow [VOLUME] \Rightarrow [KNOB]$ 

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

#### Setting the demonstration mode

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

## Adjusting the clock

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

# **Initial settings before operations**

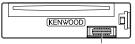
- 1 Press & SRC to enter [STANDBY] mode.
- 2 Press the volume knob to enter [FUNCTION] mode.
- **3** Turn the volume knob to select [INITIAL], then press to enter.
- **4** Turn the volume knob to make a selection, then press to confirm. See table on page 7 for selection.
- 5 Hold **t** finish the procedure.

Item	Selectable setting (Preset: *)	
PRESET	TYPE NML*: Memorizes one station for each preset button in each band (FM1/FM2/FM3/MW/LW).;  TYPE MIX: Memorizes one station for each preset button regardless of the selected band (FM1/FM2/FM3/MW/LW).	
KEY BEEP	BEEP ON*/ BEEP OFF: Activates/deactivates the keypress tone.	
RUSSIAN	RUS ON: Folder name, file name, song title, artist name, album name are displayed in Russian (if applicable). RUS OFF*: Cancels.	
OFF WAIT	Sets the duration when the unit will automatically turns off (while in standby mode) to save the battery.  OFF: Cancels; OFF 20M*: 20 minutes; OFF 40M: 40 minutes; OFF 60M: 60 minutes	
AUX SET	<b>AUX ON*:</b> Enables "AUX" in source selection. Sound of the connected external component is produce through the car speakers.; <b>AUX OFF:</b> Disables "AUX" in source selection.	
CD READ	CD READ1*: Automatically distinguishes between audio file disc and music CD.; CD READ2: Forces to play a a music CD. No sound can be heard if an audio file disc is played.	
SWPRE	SWPRE R*/ SWPRE SW: Selects whether rear speakers or a subwoofer are connected to the line out terminals on the rear of the unit (through an external amplifier).	
SPEAKER	SP OFF*/ SP 5/4/ SP 6 $\times$ 9/6/ SP OEM: Selects the speaker size for optimum performance.	
F/W xx.xx	<y>/ N*: Starts upgrading the firmware.; Y /<n>: Cancels (upgrading is not activated). For details on how to update the firmware, see: www.kenwood.com/cs/ce/</n></y>	

#### Maintenance

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

**Cleaning the connector:** The unit may not function properly if the 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.

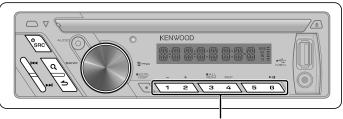


Connector (on the reverse side of the faceplate)

#### Handling discs

- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use any accessories for the disc.
- Clean from the center of the disc and move outward.
- Clean the disc with a dry silicon or soft cloth. Do not use any solvents.
- When removing discs from this unit, pull them out horizontally.
- Remove the rims from the center hole and disc edge before inserting a disc.

# Listening to the radio



Hold for about 2 seconds to memorize the current station.

- Press briefly to recall memorized station.
- 1 Press & SRC to select "TUNER."
- 2 Press Q (BAND) repeatedly to select a band (FM1/ FM2/ FM3/ MW/ LW). "F1" / "F2" / "F3" / "MW" / "LW" appears on the display.
- 3 Press | ◀ ◀ / ▶ ▶ I to search for a station.

#### Adjust [SETTINGS] mode settings

While listening to the radio...

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

Item	Selectable setting (Preset: *)		
LO.SEEK	LO.S ON: Searches only FM stations with good reception.; LO.S OFF*: Cancels.		
SEEKMODE	Selects the tuning mode for I ◄ ✓ / ▶ ► I buttons.  AUTO1*: Automatically search for a station.; AUTO2: Search in the order of the stations in the preset memory.; MANUAL: Manually search for a station.		
A-MEMORY	<y>/ N*: Automatically starts memorizing 6 stations with good reception.; Y /<n>: Cancels (automatic memorizing is not activated). (Selectable only if [TYPE NML] is selected for [PRESET].) (page 6, 7)</n></y>		
MONO SET	MONO ON: Improve the FM reception (but the stereo effect may be lost).; MONO OFF*: Cancels (stereo effect resumes).		
PTY SRCH	Selects the available Program Type (see table on page 9). Then, press I◄◀ / ▶▶I to start searching.  Press the volume knob to enter PTY language selection. Turn the volume knob to select the PTY language  (ENGLISH*/FRENCH/ GERMAN), then press to confirm.		
TI	TI ON: Allows the unit to temporarily switch to Traffic Information.; TI OFF*: Cancels.		
NEWS SET	NEWS 00M — NEWS 90M: Sets the time for receiving the next news bulletin.; NEWS 0FF*: Cancels.		
AF SET	<b>AF ON*:</b> Automatically searches for another station broadcasting the same program in the same Radio Data System network with better reception when the current reception is poor.; <b>AF OFF:</b> Cancels.		

Item	Selectable setting (Preset: *)		
REGIONAL	<b>REG ON*:</b> Switches to another station only in the specific region using the "AF" control.; <b>REG OFF:</b> Cancels.		
	ATPS ON*: Automatically searches for a station with better reception when the traffic information's reception is poor.; ATPS OFF: Cancels.		

- [MONO SET/ PTY SRCH] is selectable only when the source is "FM."
- [TI/ NEWS SET/ AF SET/ REGIONAL/ ATP SEEK] is selectable only when the source is "FM." If other playback source is selected, these settings are selectable under [TUNERSET] item. (page 14)
- Available Program Type ([SPEECH] : White character item. ; [MUSIC] : Black character item):

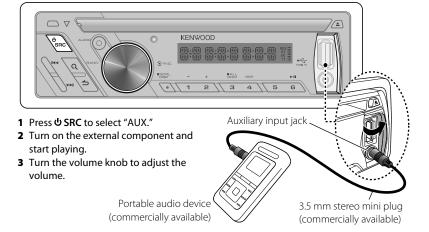
SPEECH	MUSIC	NEWS	AFFAIRS	INFO	SPORT	EDUCATE
DRAMA	CULTURE	SCIENCE	VARIED	POP M (music)	ROCK M (music)	EASY M (music)
LIGHT M (music)	CLASSICS	OTHER M (music)	WEATHER	FINANCE	CHILDREN	SOCIAL
RELIGION	PHONE IN	TRAVEL	LEISURE	JAZZ	COUNTRY	NATION M (music)
OLDIES	FOLK M (music)	DOCUMENT				

The unit will search for the Program type categorized under [SPEECH] or [MUSIC] if selected.

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

# Listening to the other external components

**Preparation:** Make sure [AUX ON] is selected for [AUX SET]. (page 6, 7)



# Listening to a disc/ USB device/ iPod

Loading slot Ejects the disc. ("NO DISC" appears and "IN" indicator goes off.)

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- Press to select track/file.
- Hold to fast-forwards/reverses.

Press to select previous/next folder.

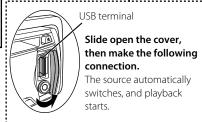
Not available if "ALL RDM" is selected.

## Start playing a disc

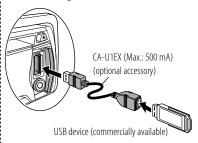
- 1 Press & SRC to turn on the power.
- **2** Insert a disc into the loading slot. Playback starts automatically.
- 3 Press number button 6 (►II) to resume/ pause playback (if necessary).

#### About "KENWOOD Music Editor"

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



## **Connecting a USB device**





## **Selecting Repeat Play**

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

Audio CD: TRAC REP (track repeat), REP OFF (repeat off)

AAC/MP3/WMA: FILE REP (file repeat), FOLD REP (folder repeat), REP OFF (repeat off)

iPod : FILE REP (file repeat), REP OFF (repeat off)

## **Selecting Random Play**

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

Audio CD : **DISC RDM** (disc random), **RDM OFF** (random off)

AAC/MP3/WMA/iPod : FOLD RDM (folder random), RDM OFF (random off)

- For AAC/MP3/WMA/iPod: Press and hold number button **3 (RDM)** to select "ALL RDM" (all random).
  - Applicable only if "RDM OFF" (random off) is selected initially.
  - For KDC-U40R : Changes the iPod browsing item to "songs."

## Selecting a folder/track/file

- 1 Press Q (BAND) to enter Music Search mode.
  - "SEARCH" appears, then the current file name appears on the display.
- 2 Turn the volume knob to select a folder/ track/file, then press to confirm.
- To return to the root folder (or first track for audio CD), press number button **5** (**iPod**) or **5**
- To return to the previous folder, press **△**.
- To cancel the Music Search mode, press and hold **△**
- < or > on the display indicates that preceded/next item is available.

- For USB device\* and ipod: To skip search, press I ► / ► I.
  - \* This operation is effective only for the files registered in the database created with Kenwood Music Editor. (See the rear cover.)

#### Discs that cannot be used

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

#### **About Audio file**

- Playable Audio file: AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)
- Playable disc media: CD-R/RW/ROM
- Playable disc file format: ISO 9660 Level 1/2, Joliet, Romeo, Long file name.
- Playable USB device file system: FAT16, FAT32 Although the audio files are complied with the standards listed above, the play maybe impossible depending on the types or conditions of media or device.

#### About USB device

- This unit can play the following files stored on a USB mass storage class device:
  - AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)
- Install the USB device in the place where it will not prevent you from driving your vehicle properly.
- You cannot connect a USB device via a USB hub and Multi Card Reader.
- Make sure all important data has been backed up to avoid losing the data.
- Connecting a cable whose total length is longer than 5 m can result in abnormal playback.

#### Selecting a song by alphabet

- 1 Press Q (BAND) to enter Music Search mode.
  - "SEARCH" appears.
- **2** Turn the volume knob to select a category, then press to confirm.
- 3 Press Q (BAND) again to enter alphabet search mode. "SRCH = = = " appears.
- **4** Turn the volume knob to select the character to be searched for.
- **5** Press | **◄ ◄ / ▶ ►** I to move to the entry position.
  - You can enter up to three characters.
- **6** Press the volume knob to start searching.
- 7 Turn the volume knob to select a folder/ track/file, then press to confirm.
- To return to the previous folder, press **ጏ**.
- To return to the top menu, press number button **5 (iPod)**.
- To cancel the Alphabet Search mode, press and hold **ጏ**.
- A longer searching time is required if there are many songs or playlists in the iPod.
- To search for a character other than A to Z and 0 to 9, enter only "\*".
- The article (a, an, the) of songs name will be skipped during search.

## **Selecting App & iPod Control Mode**

Press 5 (iPod) to make a selection.

**MODE ON:** Control iPod from the iPod\*. "APP&iPod" appears.

**MODE OFF:** Control iPod from the unit.

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

## Adjust [SETTINGS] mode settings

While listening to an iPod...

- 1 Press the volume knob to enter [FUNCTION] mode.
- 2 Turn the volume knob to select [SETTINGS], then press to enter.
- **3** Turn the volume knob to select [SKIPSRCH], then press to enter.
- 4 Turn the volume knob to make a selection, then press to confirm.

  SKIP 0.5% (initial)/ SKIP 1%/ SKIP 5%/
  SKIP 10%: Sets the ratio of skip when searching for a song in Music Search mode
  - (Holding ► I skips songs at 10% regardless of the setting made.)
- 5 Hold **to** finish the procedure.

## About compatible iPod/iPhone

#### Made for

- iPod touch (1st, 2nd, 3rd, and 4th generation)
- iPod classic
- iPod with video
- iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone
- For the latest compatible list and software version of iPod/iPhone, see: www.kenwood.com/cs/ce/ipod
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first. In this case, "RESUMING" is displayed without displaying a folder name, etc. Changing the browse item will display a correct title, etc.
- You cannot operate iPod if "KENWOOD" or "✓" displayed on iPod.

# **Function settings**

- 1 To enter [AUD CTRL] menu (see table below): Press AUDIO.
  To enter [SETTINGS] menu (page 14): Press the volume knob to enter [FUNCTION] mode. Turn the volume knob to select [SETTINGS], then press to enter.
- 2 Turn the volume knob to make a selection, then press to confirm.
  - Repeat this step until the desired item is selected/activated.
  - Press **⇒** to return to the previous item.
- **3** Hold **→** to finish the procedure.

[AUD CTRL]: While listening to any source except in STANDBY state...

Item	Selectable setting (Preset: *)			
SW LEVEL	SW L -15 — SW L +15 (Preset: SW L 0): Adjusts the subwoofer output level.			
BASS LVL	-8 — +8 (Preset: BAS L 0/ MID L 0/ TRE L 0): Source tone memory: Adjusts the level to memorize in each			
MID LVL	source. (Before making an adjustment, select the source you want to adjust.)			
TRE LVL				
EQ PRO				
BASS ADJ	BASS FRQ	BAS F 60/ BAS F 80/ BAS F100 */ BAS F200: Selects the center frequency.		
	BASS LVL	BAS L –8 — BAS L +8 (Preset: BAS L 0): Adjusts the level.		
	BASS Q	BAS Q1.00 */ BAS Q1.25/ BAS Q1.50/ BAS Q2.00: Adjusts the quality factor.		
	BASS EXT	B-EX ON: Turns on the extended bass.; B-EX OFF *: Cancels.		
MID ADJ	MID FRQ	MID F0.5K/ MID F1.0K */ MID F1.5K/ MID F2.5K: Selects the center frequency.		
	MID LVL	MID L -8 — MID L +8 (Preset: MID L 0): Adjusts the level.		
	MID Q	MID Q0.75/ MID Q1.00 */ MID Q1.25: Adjusts the quality factor.		
TRE ADJ	TRE FRQ	TRE 10.0K/ TRE 12.5K */ TRE 15.0K/ TRE 17.5K: Selects the center frequency.		
	TRE LVL	TRE L -8 — TRE L +8 (Preset: TRE L 0): Adjusts the level.		
EQ	NATURAL */ USER/ ROCK/ POPS/ EASY/ TOP40/ JAZZ/ POWERFUL: Selects a preset sound mode suitable to the music genre. (Selects [USER] to use the customized bass, middle, and treble settings.)			
B. BOOST	BB-L LV1/ BB-L LV2/ BB-L LV3: Selects your preferred bass boost level.; BB-L OFF *: Cancels.			
LOUDNESS	LOUD LV1 */LOUD LV2: Selects your preferred low and high frequencies boost to produce a well-balanced sound at a low volume level.; LOUD OFF: Cancels.			
BALANCE	BAL L15 — BAL R15 (Preset: BAL 0): Adjusts the left and right speaker output balance.			
FADER	FAD R15 — FAD F15 (Preset: FAD 0): Adjusts the rear and front speaker output balance.			
SW SET	SW ON *: Turns on the subwoofer output.; SW OFF: Cancels.			

Item	Selectable setting (Preset: *)		
DTIL SET			
LPF SW	LPF THRU *: All signals are sent to the subwoofer.; LPF 85H/LPF 120H/LPF 160H: Frequencies higher than 85 Hz/ 120 Hz/ 160 Hz are cut off.		
SW PHASE	PHAS REV (180°)/ PHAS NML * (0°): Selects the phase angle of the subwoofer output to be in line with the speaker output for optimum performance. (Selectable only if a setting other than [LPF THRU] is selected for [LPF SW].)		
SPRM SET	SPRM ON *: Creates realistic sound by interpolating the high-frequency components that are lost in AAC/MP3/WMA audio compression.; SPRM OFF: Cancels. (Selectable only when playback an AAC/MP3/WMA disc or a USB device.)		
V-OFFSET (Preset: V-OFF 0)	V-OFF -8 — V-OFF +8 (for AUX); V-OFF -8 — V-OFF 0 (for other sources): Presets the volume adjustment level of each source. The volume level will automatically increase or decrease when you change the source. (Before making an adjustment, select the source you want to adjust.)		

- [SW LEVEL/ SW SET/ LPF SW/ SW PHASE] is selectable only if [SWPRE] is set to [SWPRE SW]. (page 6, 7)
- [SW LEVEL/ LPF SW/ SW PHASE] is selectable only if [SW SET] is set to [SW ON].

## [SETTINGS]

It	tem	Selectable setting (Preset: *)		
AUX NAME AUX */ DVD/ PORTABLE/ GAME/ VIDEO/ TV: Selects the desired name for the connected control (Selectable only if "AUX" is selected as the source.)		AUX */ DVD/ PORTABLE/ GAME/ VIDEO/ TV: Selects the desired name for the connected component. (Selectable only if "AUX" is selected as the source.)		
CLOCI	K			
CLF	K ADJ	(For details, see page 6.)		
TIM	ЛЕSYNC	SYNC ON *: Synchronizes the Radio Data System station time data and the unit's clock.; SYNC OFF: Cancels.		
DISP	LAY			
DIS	SP DIM	<b>DIM ON:</b> Dims the display illumination. ; <b>DIM OFF *:</b> Cancels.		
TEX	XTSCRL	SCL AUTO */ SCL ONCE: Selects to scroll the display information automatically, or scroll only once.; SCL OFF: Cancels.		
TUNERSET TI/ NEWS SET/ AF SET/ REGIONAL/ ATP SEEK: Selectable only if any source other than tuner selected. (For details, see pages 8 and 9.)		TI/ NEWS SET/ AF SET/ REGIONAL/ ATP SEEK: Selectable only if any source other than tuner source is selected. (For details, see pages 8 and 9.)		

# **Troubleshooting**

Symptom	Remedy/Cause
Sound cannot be heard.	Adjust the volume to the optimum level. / Check the cords and connections.
"PROTECT" appears and no operations can be done.	Check to be sure the terminals of the speaker leads are covered with insulating tape properly, then reset the unit. If "PROTECT" does not disappear, consult your nearest service center.
Sound cannot be heard. / The unit does not turn on. / Information shown on the display is incorrect.	The connectors are dirty. Clean the connectors. (page 7)

Symptom	Remedy/Cause
The unit does not work at all.	Reset the unit. (page 4)
[OFF WAIT] does not work.	Turn off the demonstration mode. (page 6)
Radio reception is poor. / Static noise while listening to the radio.	Connect the antenna firmly. / Pull the antenna out all the way.
"IN" flashes.	The CD player is not operating properly. Reinsert the disc properly. If the condition did not improve, turn off the unit and consult your nearest service center.
CD-R/CD-RW cannot be played back and tracks cannot be skipped.	Insert a finalized CD-R/CD-RW (finalize with the component which you used for recording).
Disc sound is sometimes interrupted.	Stop playback while driving on rough roads. / Change the disc. / Check the cords and connections.
"NA FILE" appears.	The unit is playing an unsupported audio file.
"NO DISC" appears.	Insert a playable disc into the loading slot.
"TOC ERR" appears.	The CD is quite dirty. / The CD is upside-down. / The CD is scratched a lot. Try another disc instead.
"ERROR 99" appears.	The unit is malfunctioning for some reason. Press the reset button on the unit. If the "ERROR 99" code does not disappear, consult your nearest service center.
"COPY PRO" appears.	A copy-protected file is played.
"READ ERR" appears.	Copy the files and folders for the USB device again. If the error message is still displayed, initialize the USB device or use other USB devices.
"NO DVICE" appears.	No USB device is connected. Connect an USB device, and change the source to USB again.
"NO MUSIC" appears.	The connected USB device contains no playable audio file.
"NA DVICE" appears.	Connect a supported USB device, and check the connections.
"USB ERR" appears.	Remove the USB device, turn the unit off, then turn it on again. If the unit still showing the same display, try to connect another USB device.
"iPod ERR" appears.	Reconnect the iPod. / Reset the iPod.
Noise is generated.	Skip to another track or change the disc.
Tracks cannot play back as you have intended them to play.	Playback order is determined when files are recorded.
"READING" keeps flashing.	Longer readout time is required. Do not use too many hierarchies and folders.
Elapsed playing time is not correct.	This is caused by how the tracks are recorded.
The number of songs contained in "SONGS" category of this unit is different from that contained in "SONGS" category of iPod.	Podcast files are not counted in this unit as this unit does not support the playback of podcast files.
Correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols. Cyrillic alphabets (upper case) can also be displayed if [RUSSIAN] is set to [RUS ON]. (page 6, 7)

# Installation/connection

Part list:	
A Faceplate	$(\times 1)$
B Escutcheon	(×1)
© Mounting sleeve	$(\times 1)$
D Casing for faceplate	$(\times 1)$
© Wiring harness	$(\times 1)$

(×2) (×2)

## **Basic procedure**

- 1 Remove the key from the ignition switch, then disconnect the 

  terminal of the car battery.
- **2** Make proper input and output wire connections.
  - → "Wiring connection" (page 17)
- 3 Install the unit to your car.
  - → "Installing the unit" (page 18)
- **4** Reconnect the ⊕ terminal of the car battery.
- 5 Reset the unit. (page 4)

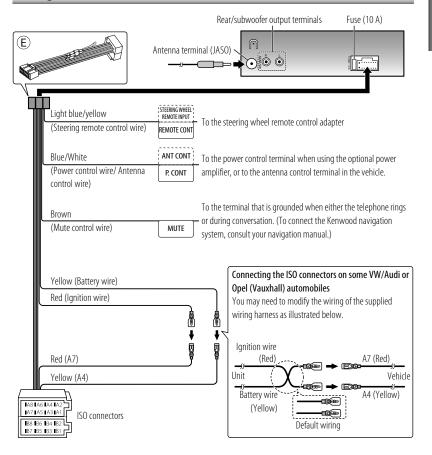
## Warning

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

#### Caution

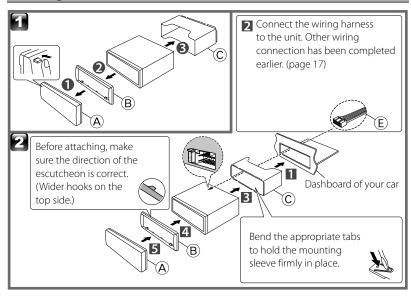
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- Do not use your own screws. Use only the screws provided.
- Install this unit in the console of your vehicle. Make sure the faceplate will not hit the lid of the console (if any) when closing and opening.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear).
- Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave this work to professionals.
   If you experience problems during installation, consult your Kenwood dealer.

### **Wiring connection**



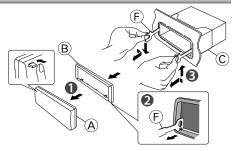
Pin	Color and function		Pin	Color and function	
A4	Yellow	Battery	B1 / B2	Purple ⊕ / Purple/black ⊖	Rear speaker (right)
A5	Blue/White	Power control	B3 / B4	Gray ⊕ / Gray/black ⊖	Front speaker (right)
A7	Red	Ignition (ACC)	B5 / B6	White ⊕ / White/black ⊖	Front speaker (left)
A8	Black	Earth (ground) connection	B7 / B8	Green ⊕ / Green/black ⊖	Rear speaker (left)

### Installing the unit



## Removing the unit

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



# **Specifications**

#### FM tuner section

Frequency range (50 kHz space):

87.5 MHz — 108.0 MHz

Usable sensitivity (S/N = 26 dB): 1.0  $\mu$ V/75  $\Omega$  Quieting sensitivity (DIN S/N = 46 dB): 2.5  $\mu$ V/75  $\Omega$ 

Frequency response (±3 dB): 30 Hz — 15 kHz

Signal-to-Noise ratio (MONO): 63 dB Stereo separation (1 kHz): 40 dB

#### **MW tuner section**

Frequency range (9 kHz space): 531 kHz — 1 611 kHz

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

#### LW tuner section

Frequency range: 153 kHz — 279 kHz Usable sensitivity (S/N = 20 dB): 57  $\mu\text{V}$ 

## **CD** player section

Laser diode: GaAlAs

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

D/A converter: 24 Bit

Spindle speed: 500 rpm — 200 rpm (CLV) Wow & Flutter: Below Measurable Limit Frequency response (±1 dB): 20 Hz — 20 kHz Total harmonic distortion (1 kHz): 0.01 %

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

Dynamic range: 90 dB

AAC decode: AAC-LC ".m4a" files

MP3 decode: Compliant with MPEG-1/2 Audio

Layer-3

WMA decode: Compliant with Windows

Media Audio

#### **USB** interface

**USB** standard: USB1.1/ 2.0 (Full speed) **Maximum supply current:** DC 5 V === 1 A

File system: FAT16/32

AAC decode: AAC-LC ".m4a" files

MP3 decode: Compliant with MPEG-1/2 Audio

Layer-3

WMA decode: Compliant with Windows

Media Audio

## **Audio section**

Maximum output power:  $50 \text{ W} \times 4$ 

Output power (DIN 45324, +B = 14.4 V): 30 W  $\times$  4

Speaker impedance:  $4 \Omega - 8 \Omega$ Tone action: Bass:  $100 \text{ Hz} \pm 8 \text{ dB}$ 

> **Middle:** 1 kHz ±8 dB **Treble:** 12.5 kHz ±8 dB

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

Preout impedance:  $\leq 600 \Omega$ 

# **Auxiliary input section**

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

Input maximum voltage: 1 200 mV

Input impedance: 10  $k\Omega$ 

#### General

Operating voltage (11 V — 16 V allowable):  $14.4 \ \lor$ 

Maximum current consumption: 10 A Installation size  $(W \times H \times D)$ :

 $182 \text{ mm} \times 53 \text{ mm} \times 158 \text{ mm}$ 

Weight: 1.3 kg

Subject to change without notice.