# KENWOOD

# KDC-BT48DAB

CD-RECEIVER
## INSTRUCTION MANUAL
AMPLI-TUNER LECTEUR DE CD
## MODE D'EMPLOI
CD-RECEIVER
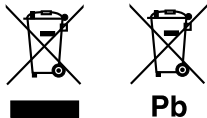## BEDIENUNGSANLEITUNG
CD RECEIVER
## GEBRUIKSAANWIJZING
SINTOLETTORE STEREO COMPACT DISC
## ISTRUZIONI PER L'USO
REPRODUCTOR DE DISCOS COMPACTOS RECEPTOR DE FM/AM
## MANUAL DE INSTRUCCIONES

JVCKENWOOD Corporation

**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.
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.

**Information sur l'élimination des anciens équipements électriques et électroniques et piles électriques (applicable dans les pays de l'Union Européenne qui ont adopté des systèmes de collecte sélective)**
Les produits et piles électriques sur lesquels le pictogramme (poubelle barrée) est apposé ne peuvent pas être éliminés comme ordures ménagères.
Les anciens équipements électriques et électroniques et piles électriques doivent être recyclés sur des sites capables de traiter ces produits et leurs déchets.
Contactez vos autorités locales pour connaître le site de recyclage le plus proche. Un recyclage adapté et l'élimination des déchets aideront à conserver les ressources et à nous préserver des leurs effets nocifs sur notre santé et sur l'environnement.
Remarque: Le symbole "Pb" ci-dessous sur des piles électrique indique que cette pile contient du plomb.

**Entsorgung von gebrauchten elektrischen und elektronischen Geräten und Batterien (anzuwenden in den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem für solche Geräte)**
Das Symbol (durchgestrichene Mülltonne) auf dem Produkt oder seiner Verpackung weist darauf hin, dass dieses Produkt nicht als normaler Haushaltsabfall behandelt werden darf, sondern an einer Annahmestelle für das Recycling von elektrischen und elektronischen Geräten und batterien abgegeben werden muss.
Durch Ihren Beitrag zur korrekten Entsorgung dieses Produktes schützen Sie die Umwelt und die Gesundheit Ihrer Mitmenschen.
Unsachgemässe oder falsche Entsorgung gefährden Umwelt und Gesundheit. Weitere Informationen über das Recycling dieses Produktes erhalten Sie von Ihrer Gemeinde oder den kommunalen Entsorgungsbetrieben.
Achtung: Das Zeichen „Pb" unter dem Symbol fur Batterien zeigt an, dass diese Batterie Blei enthalt.

**Informatie over het weggooien van elektrische en elektronische apparatuur en batterijen (particulieren)**
Dit symbool geeft aan dat gebruikte elektrische, elektronische producten en batterijen niet bij het normale huishoudelijke afval mogen.
Lever deze producten in bij de aangewezen inzamelingspunten, waar ze gratis worden geaccepteerd en op de juiste manier worden verwerkt, teruggewonnen en hergebruikt. Voor inleveradressen zie www.nvmp.nl, www.ictmilieu.nl, www.stibat.nl. Wanneer u dit product op de juiste manier als afval inlevert, spaart u waardevolle hulpbronnen en voorkomt u potentiële negatieve gevolgen voor de volksgezondheid en het milieu, die anders kunnen ontstaan door een onjuiste verwerking van afval.
Opgelet: Het teken „Pb" onder het teken van de batterijen geeft aan dat deze batterij lood bevat.

**Informazioni sullo smaltimento delle vecchie apparecchiature elettriche ed elettroniche e delle batterie (valide per i Paesi Europei che hanno adottato sistemi di raccolta differenziata)**

I prodotti e le batterie recanti il simbolo di un cassonetto della spazzatura su ruote barrato non possono essere smaltiti insieme ai normali rifiuti di casa.

I vecchi prodotti elettrici ed elettronici e le batterie devono essere riciclati presso un'apposita struttura in grado di trattare questi prodotti e di smaltirne i loro componenti.

Per conoscere dove e come recapitare tali prodotti nel luogo a voi più vicino, contattare l'apposito ufficio comunale. Un appropriato riciclo e smaltimento aiuta a conservare la natura e a prevenire effetti nocivi alla salute e all'ambiente.

Nota: Il simbolo "Pb" sotto al simbolo delle batterie indica che questa batteria contiene piombo.

**Información acerca de la eliminación de equipos eléctricos, electrónicos y baterías al final de la vida útil (aplicable a los países de la Unión Europea que hayan adoptado sistemas independientes de recogida de residuos)**

Los productos y las baterías con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos.

Los equipos eléctricos, electrónicos y baterías al final de la vida útil, deberán ser reciclados en instalaciones que puedan dar el tratamiento adecuado a estos productos y a sus subproductos residuales correspondientes.

Póngase en contacto con su administración local para obtener información sobre el punto de recogida más cercano. Un tratamiento correcto del reciclaje y la eliminación de residuos ayuda a conservar los recursos y evita al mismo tiempo efectos perjudiciales en la salud y el medio ambiente.

Nota: El símbolo "Pb" debajo del (contenedor con ruedas tachado) en baterías indica que dicha batería contiene plomo.

**For Israel**

מידע בדבר השלכה לאשפה של ציוד חשמלי ואלקטרוני ישן וכן סוללות (רלוונטי למדינות שמשתמשות במערכת איסוף אשפה מופרדת).

לא ניתן להשליך מוצרים וסוללות עם הסימון (פח אשפה עם X עליו) כאשפה ביתית רגילה. יש למחזר ציוד חשמלי ואלקטרוני ישן וכן סוללות במתקן המסוגל לטפל בפריטים כאלה ובתוצרי הלוואי שלהם. צרו קשר עם הרשות המקומית לקבלת פרטים אודות מתקן המיחזור הקרוב אליכם. מיחזור והשלכה לאשפה נאותים יעזרו לשמר משאבים ולמנוע השפעות שליליות על בריאותנו ועל הסביבה. שימו לב: הסימון Pb שמתחת לסימון עבור סוללות מציין שהסוללה מכילה עופרת.

**For Turkey**

Bu ürün 28300 sayılı Resmi Gazete'de yayımlanan Atik Elektrikli ve Elektronik Eşyaların Kontrolü Yönetmeliğe uygun olarak üretilmiştir.

**Eski Elektrik ve Elektronik Ekipmanların İmha Edilmesi Hakkında Bilgi (ayrı atık toplama sistemlerini kullanan ülkeleri için uygulanabilir)**

Sembollü (üzerinde çarpı işareti olan çöp kutusu) ürünler ev atıkları olarak atılamaz.
Eski elektrik ve elektronik ekipmanlar, bu ürünleri ve ürün atıklarını geri dönüştürebilecek bir tesiste değerlendirilmelidir. Yaşadığınız bölgeye en yakın geri dönüşüm tesisinin yerini öğrenmek için yerel makamlara müracaat edin. Uygun geri dönüşüm ve atık imha yöntemi sağlığımız ve çevremiz üzerindeki zararlı etkileri önlerken kaynakların korunmasına da yardımcı olacaktır.

CE

**Declaration of Conformity with regard to the R&TTE Directive 1999/5/EC**
**Declaration of Conformity with regard to the EMC Directive 2004/108/EC**
**Declaration of Conformity with regard to the RoHS Directive 2011/65/EU**
**Manufacturer:**
JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

**EU Representative:**
JVCKENWOOD NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

**Déclaration de conformité vis à vis de la Directive 1999/5/CE de R&TTE**
**Déclaration de conformité se rapportant à la directive EMC 2004/108/CE**
**Déclaration de conformité se rapportant à la directive RoHS 2011/65/EU**
**Fabricant:**
JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

**Représentants dans l'UE:**
JVCKENWOOD NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

**Konformitätserklärung in Bezug auf die R&TTE-Vorschrift 1999/5/EC**
**Konformitätserklärung in Bezug auf die EMC-Vorschrift 2004/108/EC**
**Konformitätserklärung in Bezug auf die RoHS-Vorschrift 2011/65/EU**
**Hersteller:**
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3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

**EU-Vertreter:**
Kenwood Electronics Europe BV
Amsterdamseweg 37, 1422 AC UITHOORN, Niederlande

**Conformiteitsverklaring met betrekking tot de R&TTE-richtlijn van de Europese Unie (1999/5/EC)**
**Conformiteitsverklaring met betrekking tot de EMC-richtlijn van de Europese Unie (2004/108/EC)**
**Conformiteitsverklaring met betrekking tot de RoHS richtlijn van de Europese Unie (2011/65/EU)**
**Fabrikant:**
JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

**EU-vertegenwoordiger:**
JVCKENWOOD NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, Nederland

**Dichiarazione di conformità alla Direttiva R & TTE 1999/5/CE**
**Dichiarazione di conformità relativa alla direttiva EMC 2004/108/CE**
**Dichiarazione di conformità relativa alla direttiva RoHS 2011/65/EU**
**Produttore:**
JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

**Rappresentante UE:**
JVCKENWOOD NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

**Declaración de conformidad con respecto a la Directiva R&TTE 1999/5/CE**
**Declaración de conformidad con respecto a la Directiva EMC 2004/108/CE**
**Declaración de conformidad con respecto a la Directiva RoHS 2011/65/EU**
**Fabricante:**
JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

**Representante en la UE:**
JVCKENWOOD NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, Países Bajos

**English**
Hereby, JVC KENWOOD declares that this unit KDC-BT48DAB is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

**Français**
Par la présente JVC KENWOOD déclare que l'appareil KDC-BT48DAB est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Par la présente, JVC KENWOOD déclare que ce KDC-BT48DAB est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.

**Deutsch**
Hiermit erklärt JVC KENWOOD, dass sich dieser KDC-BT48DAB in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. (BMWi)
Hiermit erklärt JVC KENWOOD die Übereinstimmung des Gerätes KDC-BT48DAB mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richitlinie 1999/5/EG. (Wien)

**Nederlands**
Hierbij verklaart JVC KENWOOD dat het toestel KDC-BT48DAB in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Bij deze verklaat JVC KENWOOD dat deze KDC-BT48DAB voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.

**Italiano**
Con la presente JVC KENWOOD dichiara che questo KDC-BT48DAB è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

**Español**
Por medio de la presente JVC KENWOOD declara que el KDC-BT48DAB cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

**Português**
JVC KENWOOD declara que este KDC-BT48DAB está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

**Polska**
JVC KENWOOD niniejszym oświadcza, że KDC-BT48DAB spełnia zasadnicze wymogi oraz inne istotne postanowienia dyrektywy 1999/5/EC.

**Český**
JVC KENWOOD tímto prohlašuje, že tento KDC-BT48DAB je ve shode se základními požadavky a dalšími příslušnými ustanoveními smernice 1999/5/ES.

**Magyar**
Alulírott, JVC KENWOOD, kijelenti, hogy a jelen KDC-BT48DAB megfelel az 1999/5/EC irányelvben meghatározott alapvető követelményeknek és egyéb vonatkozó előírásoknak.

**Svenska**
Härmed intygar JVC KENWOOD att denna KDC-BT48DAB stär I överensstämelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

**Suomi**
JVC KENWOOD vakuuttaa täten että KDC-BT48DAB tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

**Slovensko**
S tem JVC KENWOOD izjavlja, da je ta KDC-BT48DAB v skladu z osnovnimi zahtevami in ostalimi ustreznimi predpisi Direktive 1999/5/EC.

**Slovensky**
Spoločnosť JVC KENWOOD týmto vyhlasuje, že KDC-BT48DAB spĺňa základné požiadavky a ďalšie prislušné ustanovenia Direktĺvy 1999/5/EC.

**Dansk**
Undertegnede JVC KENWOOD erklærer harved, at følgende udstyr KDC-BT48DAB overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

**Ελληνικά**
ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ JVC KENWOOD ΔΗΛΩΝΕΙ ΟΤΙ KDC-BT48DAB ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

**Eesti**
Sellega kinnitab JVC KENWOOD, et see KDC-BT48DAB vastab direktiivi 1999/5/EC põhilistele nõudmistele ja muudele asjakohastele määrustele.

**Latviešu**
Ar šo, JVC KENWOOD, apstiprina, ka KDC-BT48DAB atbilst Direktīvas 1999/5/EK galvenajām prasībām un citiem tās nosacījumiem.

**Lietuviškai**
Šiuo, JVC KENWOOD, pareiškia, kad šis KDC-BT48DAB atitinka pagrindinius Direktyvos 1999/5/EB reikalavimus ir kitas svarbias nuostatas.

**Malti**
Hawnhekk, JVC KENWOOD, jiddikjara li dan KDC-BT48DAB jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

**Українська**
Компанія JVC KENWOOD заявляє, що цей виріб KDC-BT48DAB відповідає ключовим вимогам та іншим пов'язаним положенням Директиви 1999/5/EC.

**Turkish**
Bu vesileyle JVC KENWOOD, KDC-BT48DAB ünitesinin, 1999/5/EC Direktifinin başlıca gereksinimleri ve diğer ilgili hükümleri ile uyumlu olduğunu beyan eder.

# CONTENTS

#### How to read this manual
- Operations are explained mainly using buttons on the faceplate.
- **[XX]** indicates the selected items.
- **(➜ XX)** indicates references are available on the stated page.

# BEFORE USE

#### ⚠ Warning
**Do not operate any function that takes your attention away from safe driving.**

#### ⚠ Caution
**Volume setting:**
- Adjust the volume so that you can hear sounds outside the car to prevent accidents.
- Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

**General:**
- Avoid using the USB device or iPod/iPhone if it might hinder safe driving.
- Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
- Never put or leave any metallic objects (such as coins or metal tools) inside the unit, to prevent a short circuit.
- If a disc error occurs due to condensation on the laser lens, eject the disc and wait for the moisture to evaporate.

**Remote control (RC-406):**
- Do not leave the remote control in hot places such as on the dashboard.
- The Lithium battery is in danger of explosion if replaced incorrectly. Replace it only with the same or equivalent type.
- The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Keep the battery out of reach of children and in its original packaging when not in used. Dispose of used batteries promptly. If swallowed, contact a physician immediately.

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#### Maintenance
**Cleaning the unit:** Wipe off dirt on the faceplate with a dry silicone or soft cloth.

**Cleaning the connector:** Detach the faceplate and clean the connector gently with a cotton swab, being careful not to damage the connector.

**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 silicone or soft cloth. Do not use any solvents.
- When removing discs from this unit, pull them out horizontally.
- Remove burrs from the center hole and disc edge before inserting a disc.
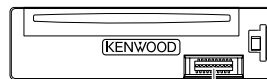
Connector (on the reverse side of the faceplate)

# BASICS

**Faceplate**

Volume knob
(turn/press)

Display window



Detach button
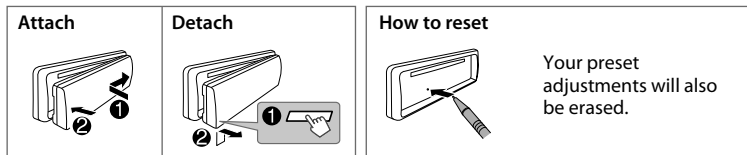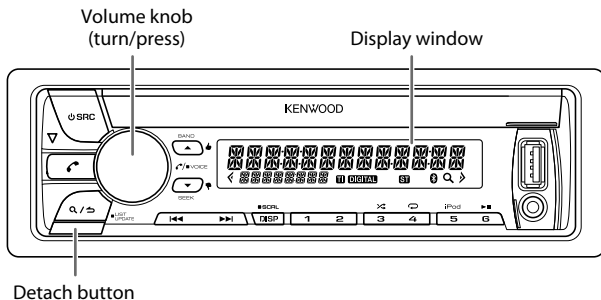
**Remote control (RC-406)** (not supplied)
(However, this unit can be remotely controlled with an optionally purchased remote control.)



Remote sensor (Do not expose to bright sunlight.)

Pull out the insulation sheet when using for the first time.

| Attach | Detach | How to reset | |
|---|---|---|---|
|  |  |  | Your preset adjustments will also be erased. |

**How to replace the battery**



CR2025
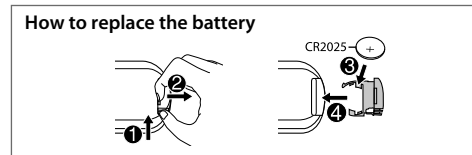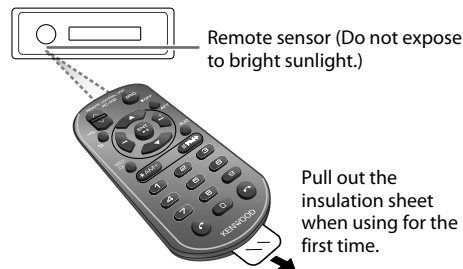
| To | Do this (on the faceplate) | Do this (on the remote control) |
|---|---|---|
| **Turn on the power** | Press ⏻ **SRC**.<br>• Press and hold to turn off the power. | Press and hold **SRC** to turn off the power.<br>( Pressing **SRC** does not turn on the power. ) |
| **Adjust the volume** | Turn the volume knob. | Press **VOL** ⌃ or **VOL** ⌄. |
| | | Press **ATT** during playback to attenuate the sound.<br>• Press again to cancel. |
| **Select a source** | Press ⏻ **SRC** repeatedly. | Press **SRC** repeatedly. |
| **Change the display information** | Press **DISP SCRL** repeatedly.<br>• Press and hold to scroll the current display information. | ( not available ) |

# GETTING STARTED
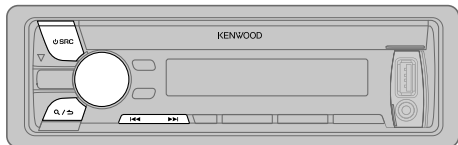


## 1 Cancel the demonstration

When you turn on the power (or after you reset the unit), the display shows: "SEL LANGUAGE" ➡ "PRESS" ➡ "VOLUME KNOB"

1. **Turn the volume knob to select [ENG] (English) or [RUS] (Russian), then press the knob.**
   [ENG] is selected for the initial setup.

   Then, the display shows: "CANCEL DEMO" ➡ "PRESS" ➡ "VOLUME KNOB"
2. **Press the volume knob.**
   [YES] is selected for the initial setup.
3. **Press the volume knob again.**
   "DEMO OFF" appears.

## 2 Set the clock

1. **Press the volume knob to enter [FUNCTION].**
2. **Turn the volume knob to select [CLOCK], then press the knob.**
3. **Turn the volume knob to select [CLOCK ADJUST], then press the knob.**
4. **Turn the volume knob to make the settings, then press the knob.**
   Day ➡ Hour ➡ Minute
5. **Turn the volume knob to select [CLOCK FORMAT], then press the knob.**
6. **Turn the volume knob to select [12H] or [24H], then press the knob.**
7. **Press and hold Q /⬗ to exit.**

To return to the previous setting item or hierarchy, press Q /⬗.

## 3 Set the initial settings

1. **Press ⏻ SRC to enter STANDBY.**
2. **Press the volume knob to enter [FUNCTION].**
3. **Turn the volume knob to make a selection (see the following table), then press the knob.**
4. **Press and hold Q /⬗ to exit.**

To return to the previous setting item or hierarchy, press Q /⬗.

Default: **XX**

| AUDIO CONTROL | |
|---|---|
| SP SELECT | **OFF**/ 5/4/ 6 × 9/6/ **OEM**: Selects according to the speaker size (5 inches or 4 inches, 6×9 inches or 6 inches) or OEM speakers for optimum performance. |
| **DISPLAY** | |
| EASY MENU | **ON**: Both display and button illumination change to white color when entering [**FUNCTION**]. ; **OFF**: Both display and button illumination remain as [**COLOR SELECT**] color. (➡ **18**) |
| **TUNER SETTING** | |
| DAB L-BAND | **ON**: Receives L-BAND ensemble during digital audio reception. ; **OFF**: Cancels. |
| DAB ANT POWER | **ON**: Supplies power to the DAB antenna. Selects when using the supplied antenna. ; **OFF**: Does not supply power. Selects when using passive antenna without booster. (➡ **25**) |
| PRESET TYPE | **NORMAL**: Memorizes one station for each preset button in each band (FM1/ FM2/ FM3/ MW/ LW/ DB1/ DB2/ DB3). ; **MIX**: Memorizes one station for each preset button, regardless of the selected band. |
| **SYSTEM** | |
| KEY BEEP | **ON**: Activates the keypress tone. ; **OFF**: Deactivates. |

# DIGITAL RADIO (DAB)

| SOURCE SELECT | |
|---|---|
| **AHA SRC** | **ON**: Enables AHA in source selection. ; **OFF**: Disables. (➡ 11) |
| **BUILT-IN AUX** | **ON**: Enables AUX in source selection. ; **OFF**: Disables. (➡ 11) |
| **RUSSIAN SET** | Selects the display language for **[FUNCTION]** menu and Tag information (folder name, file name, song title, artist name, album name) if applicable. **OFF**: Display language is English. ; **ВКЛ**: Display language is Russian. |
| **P-OFF WAIT** | Applicable only when the demonstration mode is turned off. Sets the duration when the unit will automatically turns off (while in standby mode) to save the battery. **20M**: 20 minutes ; **40M**: 40 minutes ; **60M**: 60 minutes ; **WAIT TIME – – –**: Cancels |
| **CD READ** | **1**: Automatically distinguishes between audio file disc and music CD. ; **2**: Forces to play as an music CD. No sound can be heard if an audio file disc is played. |

| F/W UPDATE | |
|---|---|
| **UPDATE SYSTEM / UPDATE BT/ UPDATE DAB1/ UPDATE DAB2** | |
| **F/W UP xx.xx/ F/W UP xx.x.x/ F/W UP Vxxx** | **YES**: Starts upgrading the firmware. ; **NO**: Cancels (upgrading is not activated). For details on how to update the firmware, see: www.kenwood.com/cs/ce/ |

### About DAB (Digital Audio Broadcasting)

DAB is one of the digital radio broadcasting systems available today. It can deliver digital quality sound without any annoying interference or signal distortion. Furthermore, it can carry text, pictures and data.
In contrast to FM broadcast, where each program is transmitted on its own frequency, DAB combines several programs (called "services") to form one "ensemble."
The "primary component" (main radio station) is sometimes accompanied by a "secondary component" which can contain extra programs or other information.

**Preparation:**
1. **Connect a DAB antenna to the DAB antenna jack. (➡ 25)**
2. **Press ⏻ SRC to select DAB.**
3. **Press and hold Q /⇆ to start the Service List update.**
   "LIST UPDATE" appears and update starts. "UPDATED" appears when update completes.
   Updates take up to 3 minutes. No interruption (such as traffic information) is possible during updates.

- **To cancel the Service List update:** Press and hold Q /⇆ again.
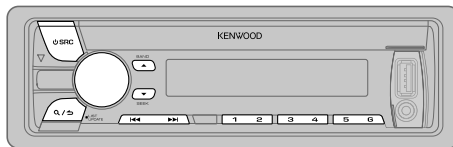


### Start listening

1. **Press ⏻ SRC to select DAB.**
2. **Press ▲ BAND repeatedly (or press #FM+ on RC-406) to select DB1/ DB2/ DB3.**
3. **Press and hold I◄◄ / ►►I (or press and hold I◄◄ / ►►I (+) on RC-406) to search for an ensemble.**
4. **Press I◄◄ / ►►I (or press I◄◄ / ►►I (+) on RC-406) to select an ensemble, service or component to listen.**

- **To change the tuning method for I◄◄ / ►►I:** Press ▼ SEEK repeatedly.
  - **AUTO1:** Press I◄◄ / ►►I: Select an ensemble, service or component.
    Press and hold I◄◄ / ►►I: Automatically search for an ensemble.
  - **AUTO2:** Press I◄◄ / ►►I: Search for a preset service.
  - **MANUAL:** Press I◄◄ / ►►I: Select an ensemble, service or component.
    Press and hold I◄◄ / ►►I: Manually search for an ensemble.

## DIGITAL RADIO (DAB)

- **To store a service:** Press and hold one of the number buttons (**1** to **6**).
- **To select a stored service:** Press one of the number buttons (**1** to **6**) (or press one of the number buttons (**1** to **6**) on RC-406).

### Select a service

1  Press Q /⇕ to enter Service Search mode.
2  Turn the volume knob or press ▲/▼ to select a service, then press the knob.

— (or using RC-406) —

Press ▲/▼ to search for a service.

To cancel the Service Search mode, press Q /⇕.

### Select a service by name

1  Press Q /⇕ to enter Service Search mode.
2  Turn the volume knob quickly to enter Alphabet Search mode.
3  Turn the volume knob or press I◄◄ / ►►I to select the character to be searched for.
   Press ▲/▼ to go to the previous/next page.
4  Press the volume knob to start searching.
5  Turn the volume knob to select a service, then press the knob.

To cancel the Alphabet Search mode, press Q /⇕.

### Replay

**Press and hold ▼ SEEK (or press ▼ on RC-406).**
"REPLAY MODE" appears and replay starts from the live position. You can replay a certain length of time of the current service (depending on the audio bit rate).

During Replay...

- To pause or resume playback, press **6 ►II** (or press **ENT ►II** on RC-406).
- To skip the current song backward/forward, press I◄◄ / ►►I (or press I◄◄ / ►►I **(+)** on RC-406).
- To rewind/fast-forward, press and hold I◄◄ / ►►I (or press and hold I◄◄ / ►►I **(+)** on RC-406).
- To exit from Replay and go to live, press and hold ▼ SEEK (or press and hold ▼ on RC-406)**.**

### Other settings

1  **Press the volume knob to enter [FUNCTION].**
2  **Turn the volume knob to make a selection (see the following table), then press the knob.**
3  **Press and hold Q /⇕ to exit.**

To return to the previous setting item or hierarchy, press Q /⇕.

Default: **XX**

| TUNER SETTING | |
|---|---|
| AF SET | **ON**:<br>While listening to DAB...<br>Automatically switch to FM broadcasting the same program if the DAB signal becomes weak. It will switch back to DAB sound when the signal becomes strong again.<br>While listening to FM...<br>Automatically switch to DAB source broadcasting the same program (if available). ;<br>**OFF**: Cancels. |
| TI | **ON**: Allows the unit to temporarily switch to Traffic Information. ; **OFF**: Cancels. |
| PTY SEARCH | Press the volume knob to enter PTY language selection. Turn the volume knob to select the PTY language (**ENGLISH**/ **FRENCH**/ **GERMAN**), then press the knob. Selects the available Program Type (➜ **7**), then, press I◄◄ / ►►I to start. |

# DIGITAL RADIO (DAB)

| | |
|---|---|
| ASW SELECT | **TRAVEL, WARNINGS, NEWS, WEATHER, EVENT, SPECIAL, RAD INFO, SPORTS, FINANCE:** Turn the volume knob to make a selection, then press the knob.<br>"✱" appears in front of the activated announcement type.<br>Automatically switch from any source to Digital radio ensembles broadcasting an activated announcement type.<br>• Multiple announcement can be activated simultaneously.<br>• To deactivate, press the volume knob again ("✱" goes off). |
| LIST UPDATE | **AUTO**: Automatically update the DAB Service List when the power is turned on. ;<br>**MANUAL**: Updates the DAB Service List by pressing and holding Q /🔙. |
| PTY WATCH | Automatically switch from any source to Digital Radio ensembles broadcasting a selected type of program.<br>**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**<br>**OFF**: Cancels. |
| **CLOCK** | |
| TIME SYNC | **ON**: Synchronizes the unit's time to the Digital Radio signal station time. ;<br>**OFF**: Cancels. |

• Available Program Type:
**SPEECH: NEWS**, **AFFAIRS**, **INFO** (information), **SPORT**, **EDUCATE**, **DRAMA**, **CULTURE**, **SCIENCE**, **VARIED**, **WEATHER**, **FINANCE**, **CHILDREN**, **SOCIAL**, **RELIGION**, **PHONE IN**, **TRAVEL**, **LEISURE**, **DOCUMENT**
**MUSIC: POP M** (music), **ROCK M** (music), **EASY M** (music), **LIGHT M** (music), **CLASSICS**, **OTHER M** (music), **JAZZ**, **COUNTRY**, **NATION M** (music), **OLDIES**, **FOLK M** (music)
The unit will search for the Program Type categorized under [**SPEECH**] or [**MUSIC**] if selected.
• If the volume is adjusted during reception of traffic information, announcement or alarm, the adjusted volume is memorized automatically. It will be applied the next time traffic information, announcement or alarm function is turned on.

# ANALOG RADIO
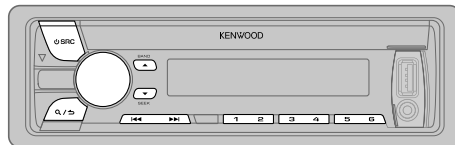


## Search for a station

1  **Press ⏻ SRC to select TUNER.**
2  **Press ▲ BAND repeatedly (or press ✱AM– / #FM+ on RC-406) to select FM1/ FM2/ FM3/ MW (or LW).**
3  **Press I◀◀ / ▶▶I (or press I◀◀ / ▶▶I (+) on RC-406) to search for a station.**

• To change the searching method for I◀◀ / ▶▶I: Press ▼ SEEK repeatedly.
  AUTO1: Automatically search for a station.
  AUTO2: Search for a preset station.
  MANUAL: Manually search for a station.
• **To store a station:** Press and hold one of the number buttons (**1** to **6**).
• **To select a stored station:** Press one of the number buttons (**1** to **6**) (or press one of the number buttons (**1** to **6**) on RC-406).

## Direct Access Tuning (using RC-406)

1  **Press DIRECT to enter Direct Access Tuning.**
2  **Press the number buttons to enter a frequency.**
3  **Press ENT ▶II to search for a station.**

• To cancel, press 🔙 or **DIRECT**.
• If no operation is done for 10 seconds after step **2**, Direct Access Tuning is automatically canceled.

## ANALOG RADIO

### Other settings

**1** Press the volume knob to enter [FUNCTION].
**2** Turn the volume knob to make a selection (see the following table), then press the knob.
**3** Press and hold Q /⤤ to exit.

To return to the previous setting item or hierarchy, press Q /⤤.

Default: **XX**

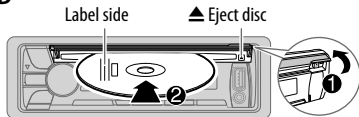| TUNER SETTING | |
|---|---|
| LOCAL SEEK | **ON**: Searches only FM stations with good reception. ; **OFF**: Cancels. |
| AUTO MEMORY | **YES**: Automatically starts memorizing 6 stations with good reception. ; **NO**: Cancels. (Selectable only if **[NORMAL]** is selected for **[PRESET TYPE]**.) (➔ 4) |
| MONO SET | **ON**: Improves the FM reception, but the stereo effect may be lost. ; **OFF**: Cancels. |
| NEWS SET | **ON**: The unit will temporarily switch to News Programme if available. ; **OFF**: Cancels. |
| REGIONAL | **ON**: Switches to another station only in the specific region using the "AF" control. ; **OFF**: Cancels. |
| AF SET | **ON**: 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. ; **OFF**: Cancels. |
| TI* | **ON**: Allows the unit to temporarily switch to Traffic Information. ; **OFF**: Cancels. |
| PTY SEARCH | Press the volume knob to enter PTY language selection. Turn the volume knob to select the PTY language (**ENGLISH**/ **FRENCH**/ **GERMAN**), then press the knob. Selects the available Program Type (see the following), then, press ⏮ / ⏭ to start. |

- **[LOCAL SEEK]**/ **[MONO SET]**/ **[NEWS SET]**/ **[REGIONAL]**/ **[AF SET]**/ **[PTY SEARCH]** is selectable only when the band is FM1/ FM2/ FM3.
- Available Program Type:
  **SPEECH**: **NEWS**, **AFFAIRS**, **INFO** (information), **SPORT**, **EDUCATE**, **DRAMA**, **CULTURE**, **SCIENCE**, **VARIED**, **WEATHER**, **FINANCE**, **CHILDREN**, **SOCIAL**, **RELIGION**, **PHONE IN**, **TRAVEL**, **LEISURE**, **DOCUMENT**
  **MUSIC**: **POP M** (music), **ROCK M** (music), **EASY M** (music), **LIGHT M** (music), **CLASSICS**, **OTHER M** (music), **JAZZ**, **COUNTRY**, **NATION M** (music), **OLDIES**, **FOLK M** (music)
  The unit will search for the Program Type categorized under **[SPEECH]** or **[MUSIC]** if selected.
- If the volume is adjusted during reception of traffic information, alarm or news bulletin, the adjusted volume is memorized automatically. It will be applied the next time traffic information, alarm or news bulletin function is turned on.
* **[TI]** in MW/LW band is for enabling traffic interruption to DAB source only.
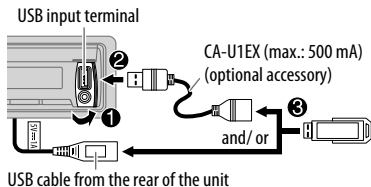
# CD / USB / iPod

### Start playback

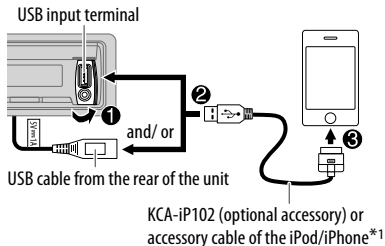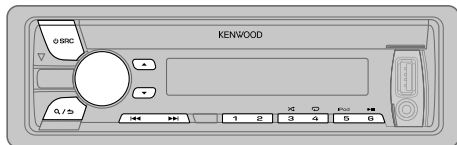The source changes automatically and playback starts.

**CD**

Label side     ▲ Eject disc



**USB**

USB input terminal



CA-U1EX (max.: 500 mA) (optional accessory)

USB cable from the rear of the unit

**iPod/iPhone**

USB input terminal



USB cable from the rear of the unit

KCA-iP102 (optional accessory) or accessory cable of the iPod/iPhone*1

**Press 5 iPod to select the control mode while in iPod source.**
**MODE ON:** From the iPod*2.
**MODE OFF:** From the unit.



| To | Do this |
|---|---|
| **Pause or resume playback** | **Press 6 ▶❙❙ (or press ENT ▶❙❙ on RC-406).** |
| **Select a track/file** | **Press ❙◀◀ / ▶▶❙ (or press ❙◀◀ / ▶▶❙ (+) on RC-406).** |
| **Select a folder** *3 | **Press ▲ / ▼ (or press ∗AM– / #FM+ on RC-406).** |
| **Reverse/Fast-forward** | **Press and hold ❙◀◀ / ▶▶❙ (or press and hold ❙◀◀ / ▶▶❙ (+) on RC-406).** |
| **Repeat play** *4 | **Press 4 ⟲ repeatedly.**<br>• Audio CD: TRACK REPEAT, REPEAT OFF<br>• MP3/WMA/AAC/WAV file or iPod: FILE REPEAT, FOLDER REPEAT, REPEAT OFF<br>• KENWOOD Music Editor Light (KME Light)/ KENWOOD Music Control (KMC) file (➜ 18): FILE REPEAT, REPEAT OFF |
| **Random play** *4 | **Press 3 ⤨ repeatedly.**<br>• Audio CD: DISC RANDOM, RANDOM OFF<br>• MP3/WMA/AAC/WAV file or iPod or KME Light/ KMC file: FOLDER RANDOM, RANDOM OFF<br><br>**Press and hold 3 ⤨ to select "ALL RANDOM".** *5 |

*1 Do not leave the cable inside the car when not using.
*2 You can still play/pause, file skip, fast-forward or reverse files from the unit.
*3 Only for MP3/WMA/AAC/WAV files. This does not work for iPod.
*4 **For iPod:** Applicable only when [MODE OFF] is selected.
*5 **For CD:** Only for MP3/WMA/AAC files.

If you connect the iPod/iPhone to the USB input terminal of the unit (while listening to TuneIn Radio, TuneIn Radio Pro or Aupeo), the unit will output the sound from these apps.

## Select a track/file from a list

**For iPod:** Applicable only when [**MODE OFF**] is selected. (→ 9)
1   **Press Q /⤺.**
2   **Turn the volume knob to make a selection, then press the knob.**
    • MP3/WMA/AAC/WAV file: Select the desired folder, then a file.
    • iPod or KME Light/ KMC file: Select the desired file from the list (PLAYLISTS, ARTISTS, ALBUMS, SONGS, PODCASTS*, GENRES, COMPOSERS*).

    * Only for iPod.

• To return to the root folder (or first file), press number button **5 iPod**.
• To return to the previous setting item or hierarchy, press Q /⤺.
• To cancel, press and hold Q /⤺.

If you have many files....
You can search through them quickly (on step **2** above) at a preset skip search ratio by pressing ⏮ / ⏭.

• See also "Set the skip search ratio."
• Pressing and holding ⏮ / ⏭ skip songs at the maximum ratio (10%) regardless of the setting made.
• **For USB:** Only for files registered in the database created with KME Light/ KMC.
• Not applicable for audio CD.

## Direct Music Search (using RC-406)

1   **Press DIRECT.**
2   **Press the number buttons to enter a track/ file number.**
3   **Press ENT ▶❚❚ to search for music.**
• To cancel, press ⤺.
• Not available if Random Play is selected.
• Not applicable for iPod, KME Light/ KMC file.

## Select a song by name

While listening to iPod...
1   **Press Q /⤺.**
2   **Turn the volume knob to select a category, then press the knob.**
3   **Turn the volume knob quickly to enter character search.**
4   **Turn the volume knob to select the character to be searched for.**
5   **Press ⏮ / ⏭ to move to the entry position.**
    You can enter up to 3 characters.
6   **Press the volume knob to start searching.**
7   **Turn the volume knob to make a selection, then press the knob.**
    Repeat step **7** until the desired item is selected.

• To search for a character other than A to Z and 0 to 9, enter only "✱".
• To return to the previous hierarchy, press Q /⤺.
• To return to the top menu, press number button **5 iPod**.
• To cancel, press and hold Q /⤺.

## Set the skip search ratio

While listening to iPod or KME Light/ KMC file...
1   **Press the volume knob to enter [FUNCTION].**
2   **Turn the volume knob to select [USB], then press the knob.**
3   **Turn the volume knob to select [SKIP SEARCH], then press the knob.**
4   **Turn the volume knob to make a selection, then press the knob.**
    **0.5%** (default)/ **1%**/ **5%**/ **10%**: Skip search ratio over the total files.
5   **Press and hold Q /⤺ to exit.**

## Change the USB drive

When a smartphone (Mass Storage Class) is connected to the USB input terminal, you can select its internal memory or external memory (such as an SD card) to playback the stored songs. You can also select the desired drive to playback when a multiple drives device is connected.

**Press 5 iPod repeatedly to select the desired drive.**

   (or)

1   **Press the volume knob to enter [FUNCTION].**
2   **Turn the volume knob to select [USB], then press the knob.**
3   **Turn the volume knob to select [MUSIC DRIVE], then press the knob.**
4   **Press the volume knob to select [DRIVE CHANGE].**
    The next drive is selected automatically.
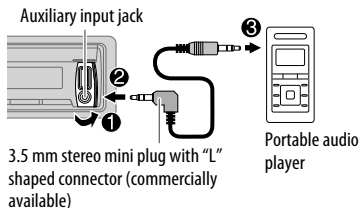Repeat steps **1** to **4** to select the following drives.
Selectable items: [**DRIVE 1**] to [**DRIVE 5**]

# AUX

**Preparation:**
Select [**ON**] for [**BUILT-IN AUX**]. (➜ 5)

### Start listening

**1 Connect a portable audio player (commercially available).**

Auxiliary input jack

3.5 mm stereo mini plug with "L" shaped connector (commercially available)

Portable audio player

**2 Press ⏻ SRC to select AUX.**
**3 Turn on the portable audio player and start playback.**

### Set the AUX name

While listening to a portable audio player connected to the unit...
**1 Press the volume knob to enter [FUNCTION].**
**2 Turn the volume knob to select [SYSTEM], then press the knob.**
**3 Turn the volume knob to select [AUX NAME SET], then press the knob.**
**4 Turn the volume knob to make a selection, then press the knob.**
**AUX** (default)/ **DVD**/ **PORTABLE**/ **GAME**/ **VIDEO**/ **TV**
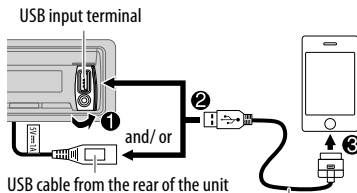**5 Press and hold Q / ⏏ to exit.**

# Aha™ RADIO

**Preparation:**
Install the latest version of Aha™ application onto your device (iPhone/ iPod touch), then create an account and log in to Aha™.
• Select [**ON**] for [**AHA SRC**]. (➜ 5)

### Start listening

**1 Open the Aha™ application on your device.**
**2 Connect your device to the USB input terminal.**

USB input terminal

and/ or

USB cable from the rear of the unit

KCA-iP102 (optional accessory) or accessory cable of the iPod/iPhone*

The source changes to AHA FRONT/ AHA REAR and broadcast starts.

* Do not leave the cable inside the car when not using.

| To | Do this |
|---|---|
| Pause or resume playback | Press 6 ▶❙❙ (or press ENT ▶❙❙ on RC-406). |
| Select a content | Press ❙◀◀ / ▶▶❙ (or press ❙◀◀ / ▶▶❙ (+) on RC-406). |
| Forward 30 seconds of a content*1 | Press and hold ▶▶❙. |
| Backward 15 seconds of a content*1 | Press and hold ❙◀◀. |
| "Likes" current content*2 | Press ▲ ♨. • To unvote, press ▲ ♨ again. |
| "Dislikes" current content*2 | Press ▼ ♥. • To unvote, press ▼ ♥ again. |

*1 Applicable to audiobook and podcast only.
*2 Not applicable to audiobook and Location Based Stations (LBS).

### Search for a station

**1 Press Q / ⏏.**
**2 Turn the volume knob to select a station, then press the knob.**
**3 Turn the volume knob to the desired content, then press the knob.**

——— (or using RC-406) ———

**Press ▲ / ▼ to search for a station.**

To cancel, press and hold Q / ⏏.

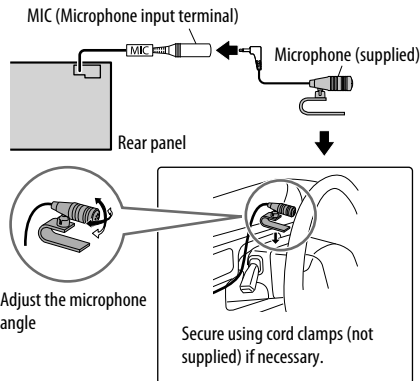You can make a call when your device is connected to the unit via Bluetooth connection (➜ 12)...
• **To call a number in the content*:** Press **1**, then press the volume knob to call.
• **To end or disconnect a call:** Press 📞.

* The availability is depending on the selected station.

ENGLISH | 11

# BLUETOOTH®

You can operate Bluetooth devices using this unit.

## Connect the microphone

MIC (Microphone input terminal)

Microphone (supplied)

Rear panel

Adjust the microphone angle

Secure using cord clamps (not supplied) if necessary.

If you turn off the unit or detach the control panel during a phone call conversation, the Bluetooth connection is disconnected. Continue the conversation using your mobile phone.

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

## Pair a Bluetooth device

When connecting a Bluetooth device to the unit for the first time, perform pairing between the unit and the device. Once the pairing is completed, the Bluetooth device will remain registered in the unit even if you reset the unit.
• Up to five devices can be registered (paired) in total.
• A maximum of two Bluetooth phones and one Bluetooth audio device can be connected at any time.
• This unit supports Secure Simple Pairing (SSP).
• Some Bluetooth devices may not automatically connect to the unit after pairing. Connect the device to the unit manually. Refer to the instruction manual of the Bluetooth device for more information.

1 **Press ⏻ SRC to turn on the unit.**
2 **Search and select this unit model name (KDC-BT4\*DAB) on the Bluetooth device.**
   "PAIRING" ➜ "PASS XXXXXX" ➜ Device name ➜ "PRESS" ➜ "VOLUME KNOB" scrolls on the display.
3 **Press the volume knob to start pairing.**
   "PAIRING OK" appears when pairing is completed and "🅑" will light up when the Bluetooth connection is established.

• For some Bluetooth devices, you may need to enter the Personal Identification Number (PIN) code immediately after searching.

• Pairing request (via Bluetooth) is automatically activated if an iPhone/iPod touch is connected through the USB input terminal. (Applicable only if **[AUTO PAIRING]** is set to **[ON]**.) (➜ 16)
Press the volume knob to pair once you have confirm the device name.

## Bluetooth test mode

You can check the connectivity of the supported profile between the Bluetooth device and the unit.
• Make sure there is no Bluetooth device connected.
1 **Press and hold 📞.**
   "PLEASE PAIR YOUR PHONE" appears.
2 **Search and select this unit model name (KDC-BT4\*DAB) on the Bluetooth device.**
3 **Operate the Bluetooth device to confirm pairing.**
   "TESTING" flashes on the display.

**The connectivity result (OK or NG) appears after the test.**
PAIRING: Pairing status
HF CNT: Hands-Free Profile (HFP) compatibility
AUD CNT: Advanced Audio Distribution Profile (A2DP) compatibility
PB DL: Phonebook Access profile (PBAP) compatibility

• To cancel check mode, press and hold ⏻ SRC to turn off the unit.

**Bluetooth mobile phone**

| To | Do this |
|---|---|
| Receive a call | Press 📞 or the volume knob or one of the number buttons (**1** to **6**) (or press 📞 on RC-406).<br>• All the buttons and display illumination flash when there is an incoming call.<br>During a call, the buttons and display illuminate according to the settings made for [**DISPLAY**]. (➜ **18**)<br>• When [**AUTO ANSWER**] is set to the selected time, the unit answers incoming call automatically. (➜ **14**) |
| Reject an incoming call | Press ⏻ **SRC** (or press 📵 on RC-406). |
| End a call | Press 📞 or ⏻ **SRC** (or press 📵 on RC-406). |
| Switch between hands-free and private talk modes | Press **6** ▶❙❙ during a call.<br>• Operations may vary according to the connected Bluetooth device. |
| Adjust the phone volume | Turn the volume knob during a call.<br>Phone volume: [**00**] to [**35**] (Default: [**15**])<br>• This adjustment will not affect the volume of the other sources. |
| Switch between two connected phones | Press 📞 repeatedly.<br>• Not applicable during a call. |

**Improve the sound quality during a call**

While talking on the phone...
**1** Press the volume knob to enter [**FUNCTION**].
**2** Turn the volume knob to make a selection (see the following table), then press the knob.
**3** Press and hold Q / ⤴ to exit.

To return to the previous setting item or hierarchy, press Q / ⤴.

Default: **XX**

| | |
|---|---|
| MIC GAIN | **−20 — +8** (**0**): The sensitivity of the microphone increases as the number increased. |
| NR LEVEL | **−5 — −20** (**−10**): Adjust the noise reduction level until the least noise is being heard during a phone conversation. |
| ECHO CANCEL | **1 — 10** (**4**): Adjust the echo cancellation delay time until the least echo is being heard during a phone conversation. |

**Text message notification**

When the phone receives a text message, the unit rings and "SMS RECEIVED" appears.
• You cannot read, edit, or send a message through the unit.
• To clear the message, press any button.

**Use Voice Recognition**

**1** Press and hold 📞.
The connected phone (which has been paired the earliest) is activated. However, if priority device is connected, pressing and holding 📞 activate the priority device. (➜ **15**, DVC PRIORITY)
**2** Speak the name of the contact you want to call or the voice command to control the phone functions.
• Supported Voice Recognition features vary for each phone. Refer to the instruction manual of the connected phone for details.
• This unit also supports the intelligent personal assistant function of iPhone.

## BLUETOOTH®

### Bluetooth mode operations

1 Press 📞 to enter Bluetooth mode.
2 Turn the volume knob to make a selection (see the following table), then press the knob.
3 Press and hold Q / ➔ to exit.

To return to the previous setting item or hierarchy, press Q / ➔.

| CALL HISTORY | 1 Press the volume knob to select a name or a phone number.<br>• "INCOMING", "OUTGOING", or "MISSED" is shown on the lower part of the display to indicate the previous call status.<br>• Press **DISP SCRL** to change the display category (NUMBER or NAME).<br>• "NO DATA" appears if there is no recorded call history.<br>2 Press the volume knob to call. |
| --- | --- |
| PHONE BOOK | 1 Turn the volume knob to select a name, then press the knob.<br>2 Turn the volume knob to select a phone number, then press the knob to call.<br>• If the phone supports PBAP, the phonebook of the connected phone is automatically transferred to the unit when pairing. If the phone does not support PBAP, "TRANSFER PB" appears. Transfer the phonebook manually. (➔ **16, TRANSFER PB**)<br>• Contacts are categorized as: HOME, OFFICE, MOBILE, OTHER, GENERAL<br>• This can display only non-accent letters. (Accent letters such as "Ú" is shown as "U".)<br>• If the phonebook contains many contacts, (➔ **Select a contact by name**). |
| NUMBER DIAL | 1 Turn the volume knob to select a number (0 to 9) or character (✳, #, +).<br>2 Press ◄◄ / ►►I to move the entry position.<br>Repeat steps **1** and **2** until you finish entering the phone number.<br>3 Press the volume knob to call.<br>**(or using RC-406)**<br>1 Press the number buttons (**0** to **9**) to enter the phone number.<br>2 Press 📞 to call. |

| VOICE | Speak the name of the contact you want to call or use the voice command to control the phone functions. (➔ **13, Use Voice Recognition**) |
| --- | --- |
| BATT* | **LOW**/ **MID**/ **FULL**: Shows the strength of the battery. |
| SIGNAL* | **NO SIGNAL**/ **LOW**/ **MID**/ **MAX**: Shows the strength of the current received signal. |
| SETTINGS | Default: **XX** |
|   AUTO ANSWER | **1 — 30**: The unit answer incoming call automatically in the selected time. ; **OFF**: Cancels. |
|   RING MODE | **SYSTEM:** The unit rings to notify you when a call/text message comes in. (Default ring tone is different according to the paired device.)<br>• **CALL:** Selects your preferred ring tone (**TONE 1 — 5**) for incoming calls.<br>• **MESSAGE:** Selects your preferred ring tone (**TONE 1 — 5**) for incoming text messages.<br>**PHONE:** The unit uses the connected phones' ring tone to notify you when a call/text message comes in. (The connected phone will ring if it does not support this feature.) |
|   SMS NOTIFY* | **ON:** The unit rings and "SMS RECEIVED" appears to notify you of an incoming text message. ; **OFF**: Cancels. |

\* Functionality depends on the type of the phone used.

### Select a contact by name

• You can search through the contacts quickly according to the first letter (A to Z), number (0 to 9), or symbol.
• The second alphabet of the contact will be searched if the first alphabet does not exist.

1 Press 📞 to enter Bluetooth mode.
2 Turn the volume knob to select [PHONE BOOK], then press the knob.

**3  Turn the volume knob quickly to enter alphabet search mode.**
The first menu (ABCDEFGHIJK) appears. To go to the other menu
(LMNOPQRSTUV or WXYZ1✳), press ▲ / ▼.

**4  Turn the volume knob or press |◄◄ / ►►| to select the desired first
letter, then press the knob.**
• To search with numbers, select "1".
• To search with symbols, select "✳".

**5  Turn the volume knob to select a name, then press the knob.**

**6  Turn the volume knob to select a phone number, then press the
knob to call.**

To return to the previous hierarchy, press Q / ➔.

### Store a contact in memory

You can store up to 6 contacts.

**1  Press ☏ to enter Bluetooth mode.**

**2  Turn the volume knob to select [CALL HISTORY], [PHONE BOOK], or
[NUMBER DIAL], then press the knob.**

**3  Turn the volume knob to select a contact or enter a phone number.**
If a contact is selected, press the volume knob to show the phone
number.

**4  Press and hold one of the number buttons (1 to 6).**
"STORED" appears when the contact is stored.

To erase a contact from the preset memory, select [NUMBER DIAL] in
step **2** and store a blank number.

### Make a call from memory

**1  Press ☏ to enter Bluetooth mode.**

**2  Press one of the number buttons (1 to 6).**

**3  Press the volume knob to call.**
"NO MEMORY" appears if there is no contacts stored.

### Delete a contact

Not applicable for mobile phone that supports PBAP.

**1  Press ☏ to enter Bluetooth mode.**

**2  Turn the volume knob to select [CALL HISTORY] or [PHONE BOOK], then
press the knob.**

**3  Turn the volume knob to select a contact.**
If a contact is selected, press the volume knob to show the phone
number.

**4  Press and hold the volume knob to enter delete mode.**

**5  Turn the volume knob to select [DELETE ONE] or [DELETE ALL], then
press the knob.**
**DELETE ONE:** Selected name or phone number in step **3** is deleted.
**DELETE ALL:** All names or phone numbers from the selected menu in
step **2** is deleted.

**6  Turn the volume knob to select [YES] or [NO], then press the knob.**

### Bluetooth mode settings

**1  Press the volume knob to enter [FUNCTION].**

**2  Turn the volume knob to select [BT MODE], then press the knob.**

**3  Turn the volume knob to make a selection (see the following table),
then press the knob.**

**4  Press and hold Q / ➔ to exit.**

To return to the previous setting item or hierarchy, press Q / ➔.

Default: **XX**

| | |
|---|---|
| **PHONE SELECT** | Selects the phone or audio device to connect or disconnect. |
| **AUDIO SELECT** | "✳" appears in front of the device name. |
| **DEVICE DELETE** | **1** Turn the volume knob to select a device to delete, then press the knob. |
| | **2** Turn the volume knob to select [**YES**] or [**NO**], then press the knob. |
| **DVC PRIORITY** | Selects a device to be connected as priority device. |
| | "✳" appears in front of the device name set as priority. |

## BLUETOOTH®

| | |
|---|---|
| **TRANSFER PB**\* | "DL PB ✕✕✕" appears and transfer the phonebook of the connected phone to this unit manually.<br>\* Selectable only when the connected phone supports OPP. |
| **PIN CODE EDIT**<br>(**0000**) | Changes the PIN code (up to 6 digits).<br>**1** Turn the volume knob to select a number.<br>**2** Press ◄◄ / ►► to move the entry position.<br>Repeat steps **1** and **2** until you finish entering the PIN code.<br>**3** Press the volume knob to confirm. |
| **RECONNECT** | **ON**: The unit automatically reconnect when the Bluetooth device is within range. ; **OFF**: Cancels. |
| **AUTO PAIRING** | **ON**: The unit automatically pair supported Bluetooth device (iPhone/iPod touch) when it is connected through USB input terminal. Depending on the iOS version of the connected iPhone/iPod touch, this function may not work. ; **OFF**: Cancels. |
| **BT HF/AUDIO** | **FRONT**: Ouputs audio from the front left and right speakers. ; **ALL**: Outputs audio from all the speakers. |
| **INITIALIZE** | **YES**: Initializes all the Bluetooth settings (including stored pairing, phonebook, and etc.). ; **NO**: Cancels. |

### Internet radio via Bluetooth

**Listen to Aha™ Radio**

**Preparation:**
Select [**ON**] for [**AHA SRC**]. (➜ 5)

You can listen to Aha™ Radio on your smart phone (Android OS) through Bluetooth on this unit.

**1  Open the Aha™ application on your smart phone.**
**2  Connect your smart phone via Bluetooth connection. (➜ 12)**
**3  Press ⏻ SRC to select AHA.**
The source switches and broadcast starts automatically.

• You can operate Aha™ Radio in the same way as Aha™ Radio for iPod/iPhone. (➜ 11)

• **To call a number in the content\*:** Press **1**, then press the volume knob to call.
• **To end or disconnect a call:** Press 📞.

\* The availability is depending on the selected station.

### Bluetooth audio player

Operations and display indications may differ according to their availability on the connected device.

| To | Do this |
|---|---|
| **Playback** | **1 Press ⏻ SRC (or press SRC on RC-406) to select BT AUDIO.**<br>**2 Operate the Bluetooth audio player to start playback.** |
| **Pause or resume playback** | **Press 6 ►II (or press ENT ►II on RC-406).** |
| **Select group or folder** | **Press ▲ / ▼ (or press ✱AM– / #FM+ on RC-406).** |
| **Reverse/ forward skip** | **Press ◄◄ / ►► (or press ◄◄ / ►► (+) on RC-406).** |
| **Reverse/fast- forward** | **Press and hold ◄◄ / ►► (or press and hold ◄◄ / ►► (+) on RC-406).** |
| **Repeat play** | **Press 4 ↻ repeatedly to make a selection.**<br>ALL REPEAT, FILE REPEAT, REPEAT OFF |
| **Random play** | **Press 3 ✕↻ repeatedly to make a selection.**<br>FOLDER RANDOM, RANDOM OFF<br>**Press and hold 3 ✕↻ to select "ALL RANDOM."** |

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# AUDIO SETTINGS

While listening to any source...
1  **Press the volume knob to enter [FUNCTION].**
2  **Turn the volume knob to select [AUDIO CONTROL], then press the knob.**
3  **Turn the volume knob to make a selection (see the following table), then press the knob.**
   Repeat step **3** until the desired item is selected or activated.
4  **Press and hold Q/⇖ to exit.**

--- (or using RC-406) ---

1 **Press AUD to enter [AUDIO CONTROL].**
2 **Press ▲/▼ to make a selection, then press ENT ▶ ❙❙.**

To return to the previous setting item or hierarchy, press Q/⇖.

Default: **XX**

| | | |
|---|---|---|
| **SUB-W LEVEL** | −15 to +15 (**0**) | Adjusts the subwoofer output level. |
| **BAND1 LEVEL** | −8 to +8 (+5): | |
| **BAND2 LEVEL** | −8 to +8 (+5): | Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.) |
| **BAND3 LEVEL** | −8 to +8 (+4): | |
| **BAND4 LEVEL** | −8 to +8 (+5): | |
| **BAND5 LEVEL** | −8 to +8 (+1): | |
| **PRESET EQ** | **DRIVE EQ**/ TOP40/ POWERFUL/ ROCK/ POPS/ EASY/ JAZZ/ NATURAL/ USER: Selects a preset equalizer suitable to the music genre. (Select **[USER]** to use the customized **BAND1** to **BAND5** settings.) **[DRIVE EQ]** is a preset equalizer that reduces noise from the road. | |
| **BASS BOOST** | **LEVEL1/ LEVEL2/ LEVEL3**: Selects your preferred bass boost level. ; **OFF**: Cancels. | |

| | |
|---|---|
| **LOUDNESS** | **LEVEL1**/ **LEVEL2**: Selects your preferred low and high frequencies boost to produce a well-balanced sound at a low volume level. ; **OFF**: Cancels. |
| **SUBWOOFER SET** | **ON**: Turns on the subwoofer output. ; **OFF**: Cancels. |
| **LPF SUBWOOFER** | **THROUGH**: All signals are sent to the subwoofer. ; **85HZ**/ **120HZ**/ **160HZ**: Audio signals with frequencies lower than 85 Hz/ 120 Hz/ 160 Hz are sent to the subwoofer. |
| **SUB-W PHASE** | **REVERSE** (180°)/ **NORMAL** (0°): Selects the phase of the subwoofer output to be in line with the speaker output for optimum performance. (Selectable only if a setting other than **[THROUGH]** is selected for **[LPF SUBWOOFER]**.) |
| **HPF** | **THROUGH**: All signals are sent to the speakers. ; **100HZ**/ **120HZ**/ **150HZ**: Audio signals with frequencies higher than 100 Hz/ 120 Hz/ 150 Hz are sent to the speakers. |
| **FADER** | **R15** to **F15** (**0**): Adjusts the rear and front speaker output balance. |
| **BALANCE** | **L15** to **R15** (**0**): Adjusts the left and right speaker output balance. |
| **VOLUME OFFSET** (Default: **0**) | −8 to +8 (for AUX) ; −8 to 0 (for other sources): Presets the volume adjustment level of each source. (Before adjustment, select the source you want to adjust.) |
| **SOUND RECNSTR** (Sound reconstruction) | **ON**: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression. ; **OFF**: Cancels. |

**[SUB-W LEVEL]**/ **[LPF SUBWOOFER]**/ **[SUB-W PHASE]** is selectable only if **[SUBWOOFER SET]** is set to **[ON]**.

# DISPLAY SETTINGS

1 **Press the volume knob to enter [FUNCTION].**
2 **Turn the volume knob to select [DISPLAY], then press the knob.**
3 **Turn the volume knob to make a selection (see the following table), then press the knob.**
   Repeat step **3** until the desired item is selected or activated.
4 **Press and hold Q /⏏ to exit.**

To return to the previous setting item or hierarchy, press Q /⏏.

Default: **XX**

| | |
|---|---|
| COLOR SELECT | **VARIABLE SCAN**/ **COLOR 01** — **COLOR 24**/ **USER**: Selects your preferred key and display illumination color. |
| | You can create your own color (when **[COLOR 01]** — **[COLOR 24]** or **[USER]** is selected). The color you have created can be selected when you select **[USER]**. |
| | 1 Press and hold the volume knob to enter the detailed color adjustment. |
| | 2 Press ⏮ / ⏭ to select the color (**R**/ **G**/ **B**) to adjust. |
| | 3 Turn the volume knob to adjust the level (**0** — **9**), then press the knob. |
| DIMMER | **ON**: Dims the display and button illumination. ; **OFF**: Illuminates according to the **[BRIGHTNESS]** settings. |
| BRIGHTNESS | **0** — **31**: Selects your preferred brightness level for display and button illumination. |
| TEXT SCROLL | **AUTO**/ **ONCE**: Selects whether to scroll the display information automatically, or scroll only once. ; **OFF**: Cancels. |

# MORE INFORMATION

## General
- This unit can only play the following CDs:



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

## Playable files
- Playable audio file: MP3 (.mp3), WMA (.wma), AAC (.m4a)
- Playable disc media: CD-R/CD-RW/CD-ROM
- Playable disc file format: ISO 9660 Level 1/2, Joliet, Long file name.
- Playable USB device file system: FAT12, FAT16, FAT32

Even when audio files comply with the standards listed above, playback may be impossible depending on the types or conditions of media or device.

## Unplayable discs
- Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- Recordable/ReWritable discs that have not been finalized.
- 8 cm CD. Attempting to insert using an adapter may cause malfunction.

## About USB devices
- This unit can play MP3/WMA/AAC/WAV files stored on a USB mass storage class device.
- You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1 A.

## About KENWOOD Music Editor Light and KENWOOD Music Control
- This unit supports the PC application KENWOOD Music Editor Light and Android™ application KENWOOD Music Control.
- When you play audio files with song data added using the KENWOOD Music Editor Light or KENWOOD Music Control, you can search for audio files by Genres, Artists, Albums, Playlists, and Songs.
- KENWOOD Music Editor Light and KENWOOD Music Control are available on the following web site: www.kenwood.com/cs/ce/

# TROUBLESHOOTING

## About iPod/iPhone
Made for
- iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
- iPod classic
- iPod nano (3rd, 4th, 5th, 6th, and 7th generation)
- iPhone, iPhone 3G, 3GS, 4, 4S, 5, 5s, 5c
- For the latest compatible list and software versions of iPhone/iPod, see: www.kenwood.com/cs/ce/ipod
- You cannot operate iPod if "KENWOOD" or "✔" is displayed on iPod.

## About Aha™ Radio
- Aha™ is a third-party service, therefore 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.

## About Bluetooth
- Depending on the Bluetooth version of the device, some Bluetooth devices may not be able to connect to this unit.
- This unit may not work with some Bluetooth devices.
- Signal conditions vary, depending on the surroundings.
- For more information about Bluetooth, visit the following website: www.kenwood.com/cs/ce/

| Symptom | Remedy |
|---|---|
| Sound cannot be heard. | • Adjust the volume to the optimum level.<br>• Check the cords and connections. |
| "PROTECT" appears and no operations can be done. | Check to be sure the terminals of the speaker wires are insulated properly, then reset the unit. If this does not solve the problem, consult your nearest service center. |
| • Sound cannot be heard.<br>• The unit does not turn on.<br>• Information shown on the display is incorrect. | Clean the connectors. (➔ 2) |
| The unit does not work at all. | Reset the unit. (➔ 3) |
| DAB reception is poor. | Make sure [ON] is selected for [DAB ANT POWER]. (➔ 4) |
| "DAB ANT ERR" appears. | Check the DAB antenna. If a passive antenna (without a booster) is used, set [DAB ANT POWER] to [OFF]. (➔ 4) |
| • Radio reception is poor.<br>• Static noise while listening to the radio. | • Connect the antenna firmly.<br>• Pull the antenna out all the way. |
| "NA FILE" appears. | Make sure the disc contains supported audio files. (➔ 18) |
| "NO DISC" appears. | Insert a playable disc into the loading slot. |
| "TOC ERROR" appears. | Make sure the disc is clean and inserted properly. |
| "PLEASE EJECT" appears. | Reset the unit. If this does not solve the problem, consult your nearest service center. |
| Disc cannot be ejected. | Press and hold ⏏ to forcibly eject the disc. Be careful not to drop the disc when it is ejected. If this does not solve the problem, reset the unit. (➔ 3) |
| "READ ERROR" appears. | Copy the files and folders onto the USB device again. If this does not solve the problem, reset the USB device or use another USB device. |
| "NO DEVICE" appears. | Connect a USB device, and change the source to USB again. |
| "COPY PRO" appears. | A copy-protected file is played. |

## TROUBLESHOOTING

| Symptom | Remedy |
| --- | --- |
| "NA DEVICE" appears. | Connect a supported USB device, and check the connections. |
| "NO MUSIC" appears. | Connect a USB device that contains playable audio files. |
| "iPod ERROR" appears. | • Reconnect the iPod.<br>• Reset the iPod. |
| Noise is generated. | Skip to another track or change the disc. |
| Tracks do not play back as you intended them to play. | Playback order is determined when files are recorded. |
| "READING" keeps flashing. | Do not use too many hierarchical levels or folders. |
| Elapsed playing time is not correct. | This is caused by how the tracks are recorded. |
| Correct characters are not displayed (e.g. album name). | This unit can only display uppercase letters, numbers, and a limited number of symbols. Uppercase Cyrillic letters can also be displayed if [**RUSSIAN SET**] is set to [**ВКЛ**]. (➜ **5**) |

| | Symptom | Remedy |
| --- | --- | --- |
| Aha™ Radio | "ACTN DISABLE" | An unavailable operation has been performed. |
| | "AHA APP UPDATE REQUIRED" | Make sure you have installed the latest version of the Aha™ application for KENWOOD application on your device. |
| | "AHA UNAVAILABLE" | Your device cannot be connected to Aha Radio server. |
| | "CHECK APP" | There is no response from Aha server. |
| | "CHECK DEVICE" | Check the Aha application on your device. |
| | "CONNECT PHONE" | Connect your device to the unit. |
| | "LOGIN FAILED" | Logging into Aha has failed. |
| | "NETWORK UNAVAILABLE" | The network has been disconnected. |
| | "POOR GPS" | The GPS reception condition of your smartphone is poor. |
| | "NO SKIPS" | Skips is not allowed. |

| | Symptom | Remedy |
| --- | --- | --- |
| Bluetooth® | No Bluetooth device is detected. | • Search from the Bluetooth device again.<br>• Reset the unit. (➜ **3**) |
| | Pairing cannot be made. | • Make sure you have entered the same PIN code to both the unit and Bluetooth device.<br>• Delete pairing information from both the unit and the Bluetooth device, then perform pairing again. (➜ **12**) |
| | "DEVICE FULL" appears. | The number of registered devices has reached its limit. Retry after deleting an unnecessary device. (➜ **15, DEVICE DELETE**) |
| | Echo or noise occurs. | • Adjust the microphone unit's position. (➜ **12**)<br>• Check the [**ECHO CANCEL**] setting. (➜ **13**) |
| | Phone sound quality is poor. | • Reduce the distance between the unit and the Bluetooth device.<br>• Move the car to a place where you can get a better signal reception. |
| | • Voice calling method is not successful.<br>• "N/A VOICE TAG" appears. | • Use voice calling method in a more quiet environment.<br>• Reduce the distance from the microphone when you speak the name.<br>• Make sure the same voice as the registered voice tag is used. |
| | "NOT SUPPORT" appears. | The connected phone does not support Voice Recognition feature. |
| | • "NO ENTRY" appears.<br>• "NO PAIR" appears. | There is no registered device connected/found via Bluetooth. |
| | "ERROR" appears. | Try the operation again. If "ERROR" appears again, check if the device supports the function you have tried. |
| | "NO INFO" appears. | Bluetooth device cannot get the contact information. |

# SPECIFICATIONS

| Symptom | | Remedy |
|---|---|---|
| Bluetooth® | Sound is being interrupted or skipped during playback of a Bluetooth audio player. | • Reduce the distance between the unit and the Bluetooth audio player.<br>• Turn off, then turn on the unit and try to connect again.<br>• Other Bluetooth devices might be trying to connect to the unit. |
| | The connected Bluetooth audio player cannot be controlled. | • Check whether the connected Bluetooth audio player supports Audio/Video Remote Control Profile (AVRCP). (Refer to the instructions of your audio player.)<br>• Disconnect and connect the Bluetooth player again. |
| | • "HF ERROR XX" appears.<br>• "BT ERROR" appears. | Reset the unit and try the operation again. If this does not solve the problem, consult your nearest service center. |

| | | | | |
|---|---|---|---|---|
| Digital radio | DAB | Frequency Range | L Band | 1 452.960 MHz — 1 490.624 MHz |
| | | | Band III | 174.928 MHz — 239.200 MHz |
| | | Sensitivity | −100 dBm | |
| | | Signal-to-Noise Ratio | 80 dB | |
| | | Antenna Connector Type | SMB | |
| | | Antenna Output Voltage | 14.4 V (11 V – 16 V) | |
| | | Antenna Maximum Current | < 100 mA | |
| Analog radio | FM | Frequency Range | 87.5 MHz — 108.0 MHz (50 kHz space) | |
| | | Usable Sensitivity (S/N = 26 dB) | 9.3 dBf (1 μV/75 Ω) | |
| | | Quieting Sensitivity (DIN S/N = 46 dB) | 10.2 dBf (1.13 μV/75 Ω) | |
| | | Frequency Response (±3 dB) | 30 Hz — 15 kHz | |
| | | Signal-to-Noise Ratio (MONO) | 75 dB | |
| | | Stereo Separation (1 kHz) | 45 dB | |
| | MW | Frequency Range | 531 kHz — 1 611 kHz (9 kHz space) | |
| | | Usable Sensitivity (S/N = 20 dB) | 28 dBμV (25 μV) | |
| | LW | Frequency Range | 153 kHz — 279 kHz (9 kHz space) | |
| | | Usable Sensitivity (S/N = 20 dB) | 33 dBμV (45 μV) | |

## SPECIFICATIONS

| | | |
|---|---|---|
| **CD player** | Laser Diode | GaAIAs |
| | Digital Filter (D/A) | 8 times over sampling |
| | Spindle Speed | 500 rpm — 200 rpm (CLV) |
| | Wow & Flutter | Below measurable limit |
| | Frequency Response ($\pm$1 dB) | 20 Hz — 20 kHz |
| | Total Harmonic Distortion (1 kHz) | 0.01 % |
| | Signal-to-Noise Ratio (1 kHz) | 105 dB |
| | Dynamic Range | 90 dB |
| | Channel Separation | 85 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** | USB Standard | USB 1.1, USB 2.0 (Full speed) |
| | File System | FAT12/16/32 |
| | Maximum Supply Current | DC 5 V ⎓ 1 A |
| | MP3 Decode | Compliant with MPEG-1/2 Audio Layer-3 |
| | WMA Decode | Compliant with Windows Media Audio |
| | AAC Decode | AAC-LC ".m4a" files |
| | WAV Decode | Linear-PCM |

| | | |
|---|---|---|
| **Bluetooth** | Version | Bluetooth Ver.2.1+EDR Certified |
| | Frequency Range | 2.402 GHz — 2.480 GHz |
| | Output Power | +4 dBm (MAX), 0 dBm (AVE) Power Class 2 |
| | Maximum Communication Range | Line of sight approx. 10 m |

| | | |
|---|---|---|
| **Bluetooth** | 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) |

| | | | |
|---|---|---|---|
| **Audio** | Maximum Output Power | 50 W $\times$ 4 | |
| | Output Power | 30 W $\times$ 4 (PWR DIN 45324, +B = 14.4 V) | |
| | Speaker Impedance | 4 Ω — 8 Ω | |
| | Tone Action | Band1 | 100 Hz $\pm$8 dB |
| | | Band2 | 250 Hz $\pm$8 dB |
| | | Band3 | 630 Hz $\pm$8 dB |
| | | Band4 | 2.5 kHz $\pm$8 dB |
| | | Band5 | 6.3 kHz $\pm$8 dB |
| | Preout Level/Load (CD) | 4 000 mV/10 kΩ | |
| | Preout Impedance | $\leq$ 600 Ω | |

| | | |
|---|---|---|
| **Auxiliary** | Frequency Response ($\pm$3 dB) | 20 Hz — 20 kHz |
| | Input Maximum Voltage | 1 000 mV |
| | Input Impedance | 30 kΩ |

| | | |
|---|---|---|
| **General** | Operating Voltage | 14.4 V (10.5 V — 16 V allowable) |
| | Maximum Current Consumption | 10 A |
| | Operational Temperature Range | 0℃ — +40℃ |
| | Installation Size (W $\times$ H $\times$ D) | 182 mm $\times$ 53 mm $\times$ 159 mm |
| | Weight | 1.4 kg |

Subject to change without notice.

# INSTALLATION / CONNECTION

## ⚠ Warning
- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery's negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- Insulate unconnected wires with vinyl tape to prevent a short circuit.
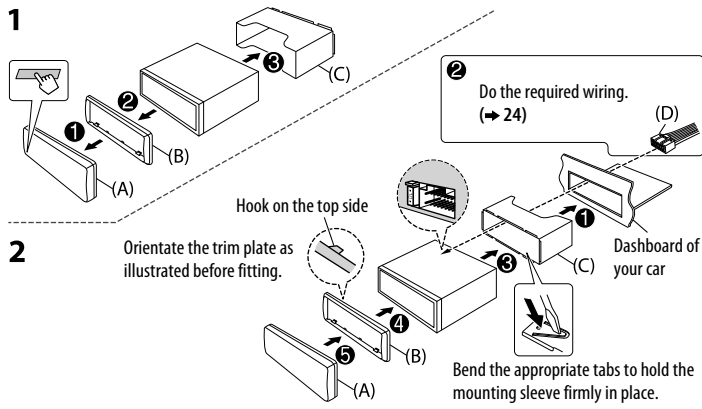- Be sure to ground this unit to the car's chassis again after installation.

## ⚠ Caution
- For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.
- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the ⊖ wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Mount the unit at an angle of less than 30º.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle's fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car's chassis, then replace the old fuse with one that has the same rating.
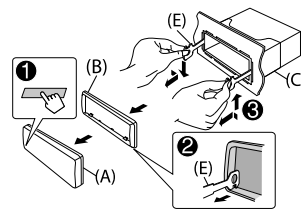
## Basic procedure
1. **Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.**
2. **Install the DAB antenna.**
   See Installing the DAB antenna. (➜ 25)
3. **Connect the wires properly.**
   See Wiring connection. (➜ 24)
4. **Install the unit to your car.**
   See Installing the unit (in-dash mounting).
5. **Connect the ⊖ terminal of the car battery.**
6. **Reset the unit. (➜ 3)**

## Installing the unit (in-dash mounting)

**1**



(C)

(B)

(A)

**2**

Do the required wiring.
(➜ 24)

(D)

Hook on the top side

Orientate the trim plate as illustrated before fitting.

(C)

Dashboard of your car

(B)

(A)

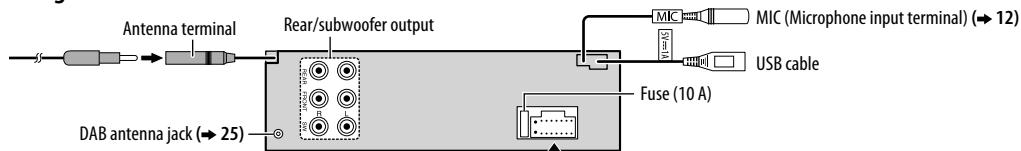Bend the appropriate tabs to hold the mounting sleeve firmly in place.
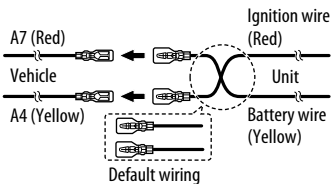
## How to remove the unit
1. **Detach the faceplate.**
2. **Fit the catch pin on the extraction keys into the holes on both sides of the trim plate, then pull it out.**
3. **Insert the extraction keys deeply into the slots on each side, then follow the arrows as shown on the right.**
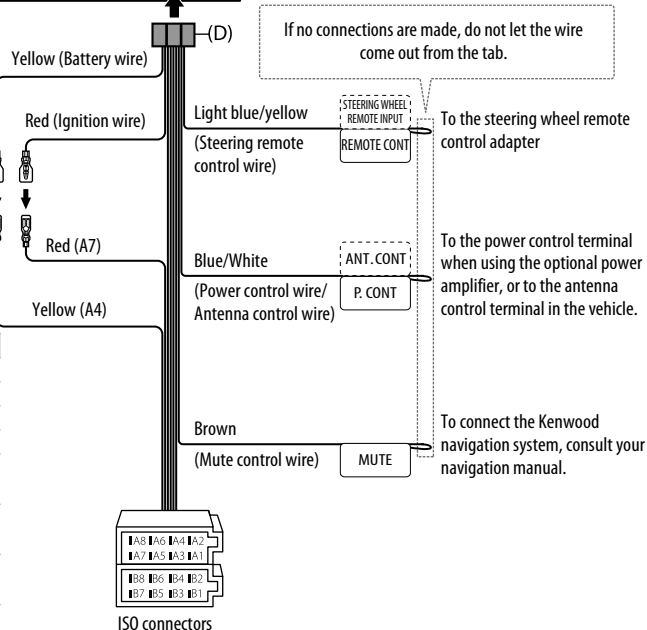


(E)

(B)

(C)

(A)

(E)

**Wiring connection**

Antenna terminal

Rear/subwoofer output

MIC (Microphone input terminal) (➔ 12)

USB cable

Fuse (10 A)

DAB antenna jack (➔ 25)

(D)

If no connections are made, do not let the wire come out from the tab.

**Connecting the ISO connectors on some VW/ Audi or Opel (Vauxhall) automobiles**
You may need to modify the wiring of the supplied wiring harness as illustrated below.

Yellow (Battery wire)

Red (Ignition wire)

Light blue/yellow
(Steering remote control wire)

STEERING WHEEL REMOTE INPUT
REMOTE CONT

To the steering wheel remote control adapter

A7 (Red)

Ignition wire (Red)

Vehicle

Unit

A4 (Yellow)

Battery wire (Yellow)

Default wiring

Red (A7)

Yellow (A4)

Blue/White
(Power control wire/ Antenna control wire)

ANT. CONT
P. CONT

To the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.

Brown
(Mute control wire)

MUTE

To connect the Kenwood navigation system, consult your navigation manual.

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

A8 A6 A4 A2
A7 A5 A3 A1
B8 B6 B4 B2
B7 B5 B3 B1

ISO connectors

**Part list for installation**

**(A)** Faceplate
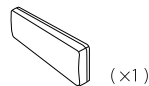
( ×1 )

**(B)** Trim plate

( ×1 )

**(C)** Mounting sleeve

( ×1 )

**(D)** Wiring harness

( ×1 )

**(E)** Extraction key

( ×2 )
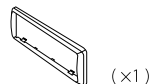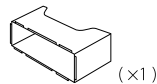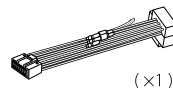
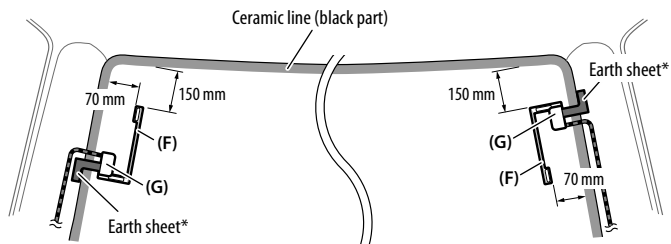## Installing the DAB antenna

### ⚠ Caution
- The film antenna **(F)** is exclusively for use inside the vehicle.
- Do not install at the following locations:
  – where it may block the driver's view.
  – where it may obstruct the operation of safety devices such as air bags.
  – on movable glass surfaces such as the rear hatch.
  – at side of vehicle (e.g. door, front quarter window).
  – on rear window.
- Signal strength will weaken when installed at the following locations:
  – on IR reflecting glass or locations covered with mirror type glass film.
  – where it overlaps with genuine radio antenna (pattern).
  – where it overlaps with window heating wires.
  – on glass that blocks radio signals (e.g. IR reflecting glass, thermal insulation glass).
- Poor reception may occur:
  – due to noise when windscreen wiper, air conditioner, or motor is turned on.
  – depending on the direction of the broadcast station with respect to the vehicle (antenna).
- Thoroughly wipe oil and dirt from the pasting surface with the supplied cleaner **(I)**.
- Do not bend or damage the film antenna **(F)**.
- It may not be possible to install on certain vehicles.
- Check the cable routing of the film antenna **(F)** and amplifier unit **(G)** before pasting.
- Do not apply any glass cleaner after pasting the film antenna **(F)**.

### Determine the antenna installation position
- The direction of the film antenna **(F)** changes depending on whether the film antenna **(F)** is installed on the right side or left side.
- Be sure to check the installation location of film antenna **(F)** before installing. Film antenna cannot be re-pasted.
- Separate from other antennas by at least 100 mm.
- Do not paste the amplifier unit **(G)** on the ceramic line (black part) around the front glass. Because there is not enough adhesion.
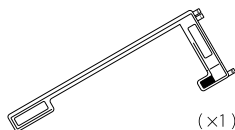
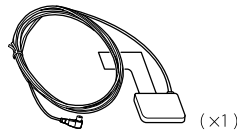■ **Installing the antenna on the left side**     ■ **Installing the antenna on the right side**



Ceramic line (black part)

Earth sheet*

70 mm  150 mm  **(F)**  **(G)**  150 mm  **(G)**  Earth sheet*  **(F)**  70 mm

Earth sheet*

\* Paste the earth sheet of the amplifier unit **(G)** on the metal part of the front pillar.

### Part list for installation



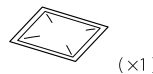**(F)** Film antenna (×1)

**(G)** Amplifier unit (cable with booster, 3.5 m) (×1)
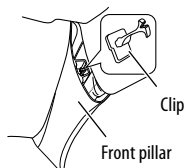
**(H)** Cable clamper (×3)
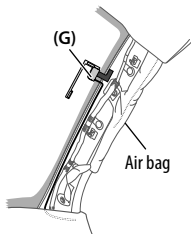
**(I)** Cleaner (×1)

## ⚠ Caution

**When installing the antenna cable inside the front pillar with the air bag installed**

- The front pillar cover is secured with a special clip which may need to be replaced when it is removed. Contact your vehicle dealer for details on removing the front pillar cover and availability of replacement parts.
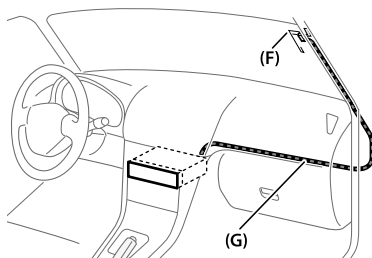


Clip

Front pillar

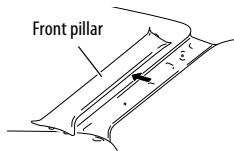- Install the amplifier unit **(G)** above the air bag so that it does not obstruct the operation of the air bag.



(G)

Air bag

## Installation overview

The antenna should be installed on the passenger side for safety.



(F)

(G)

## Antenna installation

1   **Remove the front pillar cover of your car.**
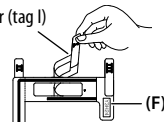


Front pillar

2   **Clean the windscreen with the supplied cleaner (I).**



(I)
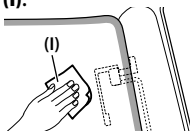
– Wait until the glass surface is completely dry before proceeding.
– Warm the surface of the windscreen with defroster if it is cold (during winter).

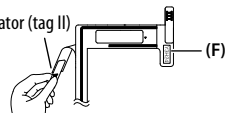3   **Remove the separator (tag I) of film antenna (F) horizontally and paste the antenna on the windscreen.**
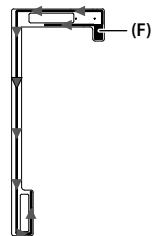
Separator (tag I)



(F)

Do not touch the pasting surface (adhesive side) of the film antenna **(F)**.

4   **Remove the separator (tag II) of film antenna (F) vertically and paste the antenna on the windscreen.**

Separator (tag II)



(F)

5   **Rub the film antenna gently onto the windscreen in the direction of the arrow shown to allow it to stick firmly.**



(F)

**6** **Remove the application film (tag III).**



(F)

Application film (tag III)

Do not touch the lead terminal of film antenna **(F)**.

**7** **Set the postion of the protrusion of the amplifier unit (G) with the ▼ on the film antenna (F) and paste.**
Do not touch the lead terminal or the pasting surface (adhesive side) of the amplifier unit **(G)**.

• **When installing the antenna on the right side**

Set the position of the protrusion with ▼ mark

Earth sheet

(F)

(G)

Lead contact of the amplifier unit (metal part)

Lead terminal of the film antenna **(F)**

• **When installing the antenna on the left side**

(G)

(F)

Earth sheet

Set the position of the protrusion with ▲ mark
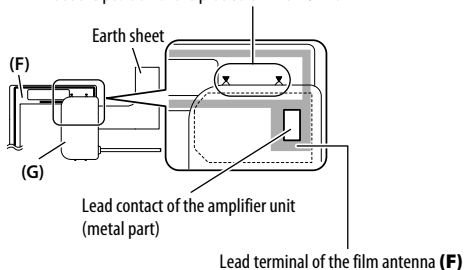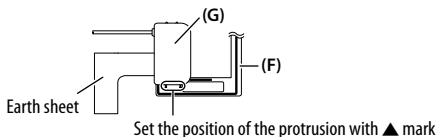
**8** **Remove the film covering the earth sheet and paste the earth sheet on the metal part of the vehicle.**
Provide sufficient leeway for the earth sheet so that it does not interfere with the interior parts (front pillar cover). Also take care that the interior parts do not interfere with the amplifier unit **(G)**.

Windscreen

Earth sheet

(G)
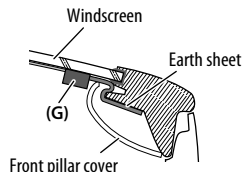
Front pillar cover

**9** **Wire the antenna cables.**
Use cable clamper **(H)** to secure the antenna to the pillar at several positions.

**10** **Attach the front pillar cover back to its original position.**
Be sure not to damage the earth sheet and amplifier unit **(G)** when covering.

**11** **Connect the amplifier unit (G) to the DAB input terminal on the rear of the unit.**

**12** **Set [DAB ANT POWER] to [ON]. (→ 5)**

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