KENWOOD

KDC-4023
KDC-3023
KDC-2023
KDC-1023
KDC-1023S

CD-RECEIVER
INSTRUCTION MANUAL

KENWOOD CORPORATION

COMPACT
disc
DIGITAL AUDIO

Contents

English

Safety precautions

⚠WARNING

To prevent injury or fire, take the following precautions:

• Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.

• When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a 0.75mm² (AWG18) or more to prevent wire deterioration and damage to the wire coating.

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

• If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.

• Make sure not to get your fingers caught between the faceplate and the unit.

• Be careful not to drop the unit or subject it to strong shock.
The unit may break or crack because it contains glass parts.

• Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.
If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

⚠CAUTION

To prevent damage to the machine, take the following precautions:

• Make sure to ground the unit to a negative 12V DC power supply.

• Do not open the top or bottom covers of the unit.

• Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

• Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

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

• Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.

• When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.

• To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.

• Do not place any object between the faceplate and the unit.

• Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

IMPORTANT INFORMATION
About CD players/disc changers connected to this unit

KENWOOD disc changers/ CD players released in 1998 or later can be connected to this unit.
Refer to the catalog or consult your Kenwood dealer for connectable models of disc changers/ CD players.
Note that any KENWOOD disc changers/ CD players released in 1997 or earlier and disc changers made by other makers cannot be connected to this unit.
Unsupported connection may result in damage.
Setting the "O-N" Switch to the "N" position for the applicable KENWOOD disc changers/ CD players.
The functions that can be used and the information that can be displayed will differ depending on the models being connected.

⚠ You can damage both your unit and the CD changer if you connect them incorrectly.

Do Not Load 3-in. CDs in the CD slot

If you try to load a 3 in. CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.
- Press the reset button if the Disc auto changer fails to operate correctly. Normal operatin should be restored.
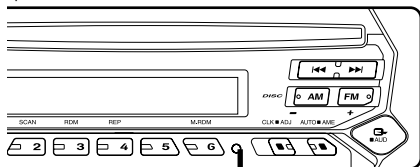
Reset button

- Characters in the LCD may become difficult to read in temperatures below 41 °F (5 °C).
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.

⚠ Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

The marking of products using lasers (Except for some areas)

**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.

Cleaning the CD Slot

As dust tends to accumulate in the CD slot, clean it every once in a while. Your CDs can get scratched if you put them in a dusty CD slot.
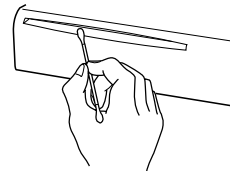

Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

About CDs

Handling CDs
• Don't touch the recording surface of the CD.
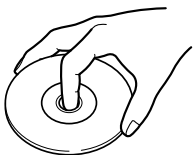
• CD-R and CD-RW are easier to damage than a normal music CD. Use a CD-R or a CD-RW after reading the caution items on the package etc.
• Don't stick tape etc. on the CD.
  Also, don't use a CD with tape stuck on it.

When using a new CD
If the CD center hole or outside rim has burrs, use it after removing them with a ball pen etc.

Burrs

Burrs
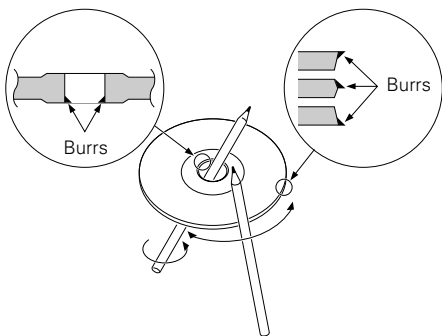
CD accessories
Don't use disc type accessories.

CD cleaning
Clean from the center of the disc and move outward.
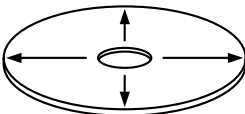
Removing CDs
When removing CDs from this unit pull them out horizontally.

CDs that can't be used
• CDs that aren't round can't be used.
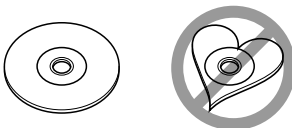
• CDs with coloring on the recording surface or that are dirty can't be used.
• This unit can only play the CDs with

  .
  It may not correctly play discs which do not have the mark.
• A CD-R or CD-RW that hasn't been finalized can't be played. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

CD storage
• Don't place them in direct sunlight (On the seat or dashboard etc.) and where the temperature is high.
• Store CDs in their cases.

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General features

Release button
(KDC-4023/KDC-3023/KDC-2023 only)

SRC ATT/ #1 #3 CLK/ Q/
     LOUD   ADJ AUD

KDC-4023/KDC-3023/KDC-2023

ATT indicator LOUD indicator

Clock indicator Clock display

SYSTEM Q indicator

KDC-1023/KDC-1023S

LOUD indicator Clock display

ATT indicator

SYSTEM Q indicator Clock indicator
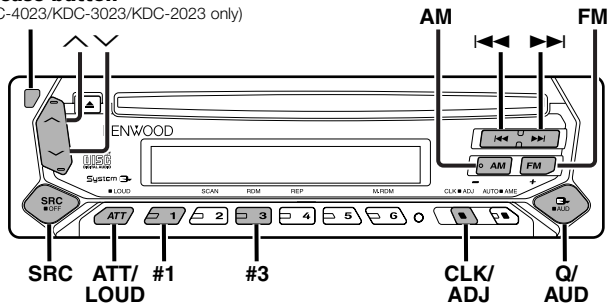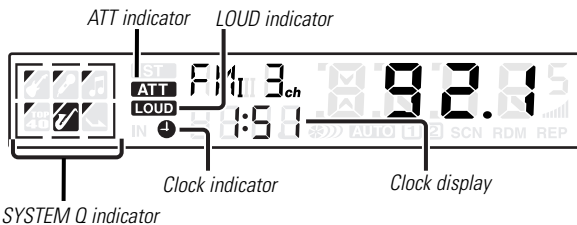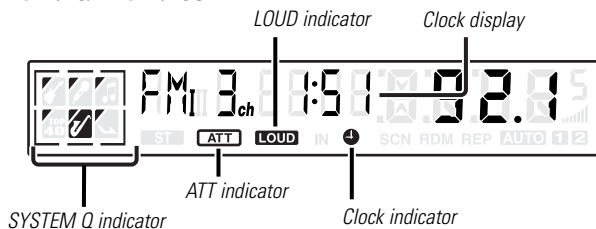
Power

Turning ON the Power
Press the [SRC] button.

Turning OFF the Power
Press the [SRC] button for at least 1 second.

Selecting the Source

Press the [SRC] button.

Source required	Display
Tuner	"TUnE"
CD	"CD"
External disc (Function of the KDC-4023/KDC-3023/KDC-2023)	"DISC"
Standby (Illumination only mode)	"OFF"

Volume

Increasing Volume
Press the [⋀] button.

Decreasing Volume
Press the [⋁] button.

Attenuator

Turning the volume down quickly.

Press the [ATT] button.
Each time the button is pressed the Attenuator turns ON or OFF. When it's ON, the "ATT" indicator blinks.

Loudness

Compensating for low and high tones during low volume.

Press the [LOUD] button for at least 1 second.

Each time the button is pressed for at least 1 second the Loudness turns ON or OFF.
When it's ON, "LOUD" indicator is ON.

System Q

You can recall the best sound setting preset for different types of the music.

1 Select the source to set
Press the [SRC] button.

2 Select the Sound type
Press the [Q] button.
Each time the button is pressed the sound setting switches.

Sound setting	Display
Flat	"SQ-1"
Rock	"SQ-2"
Top 40	"SQ-3"
Pops	"SQ-4"
Jazz	"SQ-5"
Easy	"SQ-6"

• Each setting value is changed with the <Speaker setting> (page 7). First, select the speaker type with the Speaker setting.
• When the System Q setting is changed, the Bass, Middle, and Treble set in audio control replace the System Q values.

Audio Control

1 Select the source for adjustment
Press the [SRC] button.

2 Enter Audio Control mode
Press the [AUD] button for at least 1 second.

3 Select the Audio item for adjustment
Press the [FM] or [AM] button.
Each time the button is pressed the items that can be adjusted switch as shown below.

4 Adjust the Audio item
Press the [◄◄] or [►►] button.

Adjustment Item	Display	Range
Bass level	"BAS"	–8 — +8
Middle level	"MID"	–8 — +8
Treble level	"TRE"	–8 — +8
Balance	"BL"	Left 15 — Right 15
Fader	"FD"	Rear 15 — Front 15

5 Exit Audio Control mode
Press the [AUD] button.

Speaker Setting

Fine-tuning so that the System Q value is optimal when setting the speaker type.

1 Enter Standby
Press the [SRC] button.
Select the "OFF" display.

2 Enter Speaker Setting mode
Press the [Q] button.

3 Select the Speaker type
Press the [◄◄] or [►►] button.
Each time the button is pressed the setting switches as shown below.

Speaker type	Display
OFF	"SP-F"
For the OEM speaker	"SP-O"
For 6 & 6x9 in. speaker	"SP-6"
For 5 & 4 in. speaker	"SP-5"

4 Exit Speaker Setting mode
Press the [Q] button.

General features

Clock Display

Press the [CLK] button.
Each time the button is pressed the clock display turns ON or OFF.
When it's ON, the clock indicator is ON.

Adjusting Clock

1 **Select the clock display**
Press the [CLK] button.

2 **Enter clock adjustment mode**
Press the [CLK] button for at least 2 seconds.
The clock display blinks.

3 **Adjust the hours**
Press the [FM] or [AM] button.

Adjust the minutes
Press the [|◀◀] or [▶▶|] button.

4 **Exit clock adjustment mode**
Press the [CLK] button.

Function of the KDC-4023/KDC-3023/KDC-2023

DSI (Disabled System Indicator)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves.

1 **Turn the power OFF**
Press the [SRC] button for at least 1 second.

2 **Set the DSI**
While pressing the [#1] and [#3] button, press the [SRC] button.
Each time the step 1 and 2 operation is done the DSI turns ON or OFF.

Function of the KDC-4023/KDC-3023/KDC-2023

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

Removing the Faceplate

Press the Release button.
The faceplate is unlocked, allowing you to detach it.

⚠ • The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.
• Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

Reattaching the Faceplate

1 Align the projections on the unit with the grooves on the faceplate.

Projections

Grooves
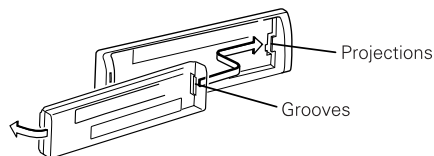
2 Push the faceplate in until it clicks.
The faceplate is locked in place, allowing you to use the unit.

Tuner features

KDC-4023/KDC-3023/KDC-2023

ST indicator   *Preset station number*   *CRSC indicator*

Band display   *AUTO indicator*

Frequency display

KDC-1023/KDC-1023S

Band display   *Preset station number*   *CRSC indicator*

ST indicator   *AUTO indicator*

Frequency display
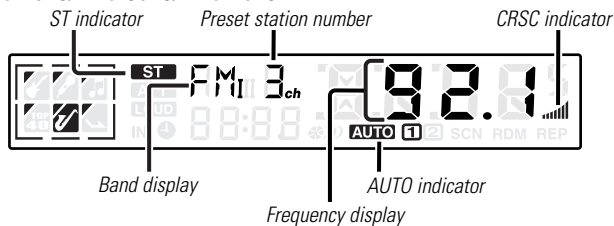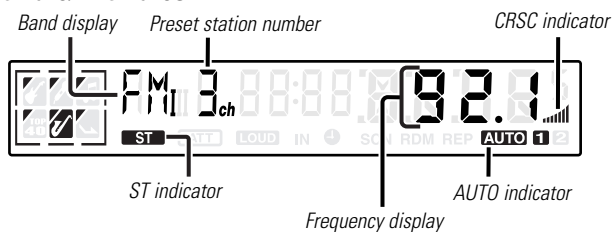
Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.
Each time the button is pressed the Tuning mode switches as shown below.

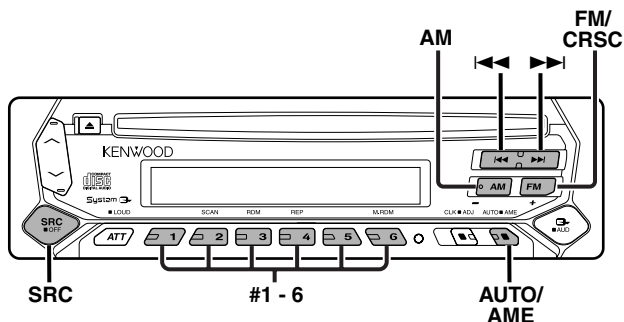| Tuning mode	Display	Operation
Auto seek	"AUTO 1" indicator	Automatic search for a station.
Preset station seek	"AUTO 2" indicator	Search in order of the stations in the Preset memory.
Manual	—	Normal manual tuning control.

Tuning

Selecting the station.

1 Select tuner source
Press the [SRC] button.
Select the "TUnE" display.

2 Select the band
Press the [FM] or [AM] button.
Each time the [FM] button is pressed it switches between the FM1, FM2, and FM3 bands.

3 Tune up or down band
Press the [I◄◄] or [►►I] button.

During reception of stereo stations the "ST" indicator is ON.

CRSC (Clean Reception System Circuit)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station.

Press the [CRSC] button for at least 1 second.
Each time the button is pressed CRSC turns ON or OFF. When it's ON, the "CRSC" indicator is ON.

Tuner features

Station Preset Memory

Putting the station in the memory.

1 Select the band
Press the [FM] or [AM] button.

2 Select the frequency to put in the memory
Press the [I◄◄] or [►►I] button.

3 Put the frequency in the memory
Press the [#1] — [#6] button for at least 2 seconds.
The preset number display blinks 1 time.
On each band, 1 station can be put in the memory on each [#1] — [#6] button.

Auto Memory Entry

Putting stations with good reception in the memory automatically.

1 Select the band for Auto Memory Entry
Press the [FM] or [AM] button.

2 Open Auto Memory Entry
Press the [AME] button for at least 2 seconds.
When 6 stations that can be received are put in the memory Auto Memory Entry closes.

Preset Tuning

Calling up the stations in the memory.

1 Select the band
Press the [FM] or [AM] button.

2 Call up the station
Press the [#1] — [#6] button.

Frequency Step Setting

Changing the tuning frequency step.
The original setting is FM band 50 kHz, and AM band 9 kHz.

1 Turn the power OFF
Press the [SRC] button for at least 1 second.
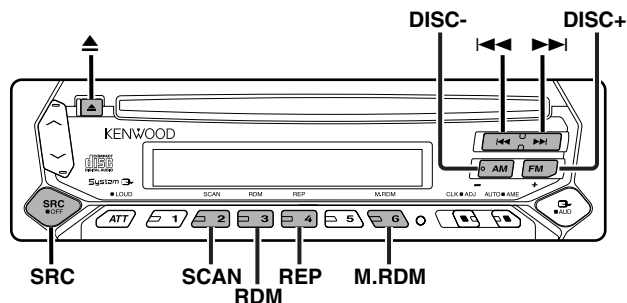
2 Switch the frequency step
While pressing the [#1] and [#5] button, press the [SRC] button.
The frequency step changes to FM band 200 kHz, and AM band 10 kHz.

> • When the same operation is repeated, it returns to the original setting.
> • When the frequency step is switched, the frequencies in the memory are deleted.

CD/External disc control features

DISC- DISC+

SRC **SCAN** **REP** **M.RDM**
RDM

KDC-4023/KDC-3023/KDC-2023

Track number

Disc number   SCN indicator   REP indicator

IN indicator   Track time   RDM indicator

KDC-1023/KDC-1023S

Track number

IN indicator   RDM indicator

Track time   SCN indicator   REP indicator
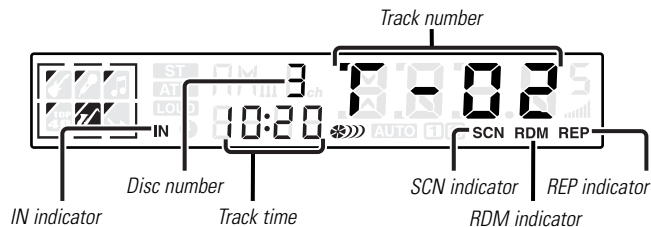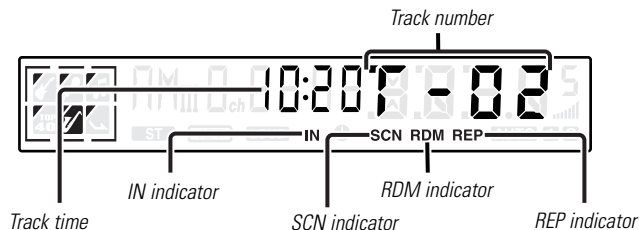
Playing CD

When a CD is inserted
Press the [SRC] button.
Select the "CD" display.

When a CD is inserted, the "IN" indicator is ON.

Eject the CD
Press the [▲] button.

⚠ 3 in. (8cm) CD cannot be played. Using an adapter and inserting them into this unit can cause damage.

Function of the KDC-4023/KDC-3023/KDC-2023

Playing External Disc

Playing discs set in the optional accessory disc player connected to this unit.

Press the [SRC] button.
Select the display for the disc player you want.
Display examples:

Display	Disc player
"CD-2"	CD player
"DISC"	CD changer/MD changer

• Disc #10 is displayed as "0".
• The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

CD/External disc control features

Fast Forwarding and Reversing

Fast Forwarding
Hold down on the [►►I] button.
Release your finger to play the disc at that point.

Reversing
Hold down on the [I◄◄] button.
Release your finger to play the disc at that point.

Track Search

Selecting the song you want to hear.

Press the [I◄◄] or [►►I] button.

Function of the KDC-4023/KDC-3023/KDC-2023

Album Search (Function of disc changer)

Selecting the disc you want to hear.

Press the [DISC–] or [DISC+] button.

Track/Album Repeat

Replaying the song/disc you're listening to.

Press the [REP] button.
Each time the button is pressed the Repeat Play switches as
shown below.

Repeat play	Display
Track Repeat	"REP" indicator & Track No. blink.
Album Repeat (Function of disc changer)	"REP" indicator & Disc No. blink.
OFF	—

Track Scan

Playing the first part of each song on the disc you are listening
to and searching for the song you want to listen to.

1 Start Track Scan
Press the [SCAN] button.
"SCN" indicator is ON.

2 Release it when the song you want to listen to is played
Press the [SCAN] button.

Random Play

Playing all the songs on the disc in random order.

Press the [RDM] button.
Each time the button is pressed Random Play turns ON or OFF.
When it's ON, the "RDM" indicator is ON and the track number
blinks.

When the [►►I] button is pressed, the next song select starts.

Function of the KDC-4023/KDC-3023/KDC-2023

Magazine Random Play
(Function of disc changer)

Play the songs on all the discs in the disc changer in random
order.

Press the [M.RDM] button.
Each time the button is pressed the Magazine Random Play turns
ON or OFF.
When it's ON, the "RDM" indicator is ON and the track and disc
number blink.

When the [►►I] button is pressed, the next song select starts.

Function of the KDC-4023

Direct Track Search (Function of remote)

Doing Track Search by entering the track number.

1 **Enter the track number**
Press the number buttons on the remote.

2 **Do Track Search**
Press the [|◀◀] or [▶▶|] button.

Canceling Direct Track Search
Press the [▶II] button.

Function of the KDC-4023

Direct Album Search (Function of disc changers with remote)

Doing Disc Search by entering the disc number.

1 **Enter the disc number**
Press the number buttons on the remote.
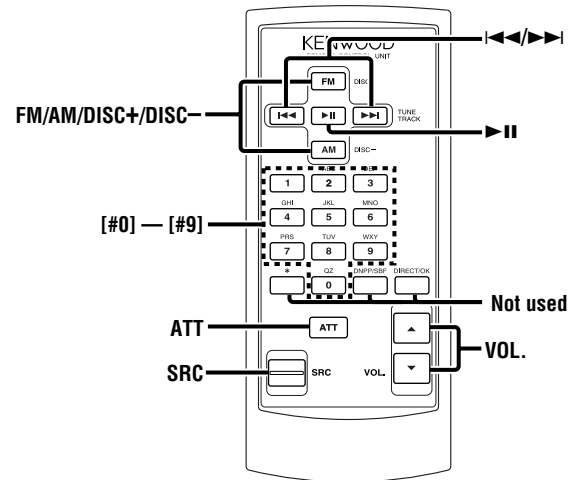
2 **Do Album Search**
Press the [DISC+] or [DISC–] button.

Canceling Direct Album Search
Press the [▶II] button.

Input "0" to select disc 10.

|◀◀/▶▶|

FM/AM/DISC+/DISC−

▶II

[#0] — [#9]

Not used

ATT

VOL.

SRC

Basic Operations of remote
Accessory of the KDC-4023

English

Loading and Replacing the battery

Use one lithium battery (CR2025).
Insert the batteries with the + and – poles aligned properly, following the illustration inside the case.

① Keep on slide

② Pull out
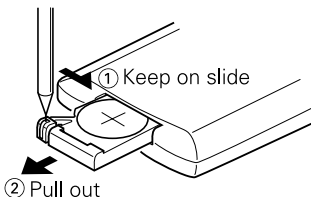
⚠WARNING

Store unused batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.

⚠ Do not set the remote on hot places such as above the dashboard.

Basic operations

[VOL.] buttons
Adjusting the volume.

[SRC] button
Each time the button is pressed the source switches.
For the source switching order refer to <Selecting the Source> (page 6).

[ATT] button
Turning the volume down quickly.
When it is pressed again it returns to the previous level.

In Tuner source

[FM]/ [AM] buttons
Select the band.
Each time the [FM] button is pressed it switches between the FM1, FM2, and FM3 bands.

[I◄◄]/ [►►I] buttons
Tune up or down band.

[#0] — [#9] buttons
Press buttons [#1] — [#6] to recall preset stations.

In Disc source

[I◄◄]/ [►►I] buttons
Doing track forward and backward.

[DISC+]/ [DISC-] buttons
Doing album forward and backward.

[►II] button
Each time the button is pressed the song pauses and plays.

[#0] — [#9] buttons
When in <Direct Track Search> (page 13) and <Direct Album Search> (page 12), enter the track/disc number.

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Accessories

External view

.... Number of items

① 1

② 2

External view

.... Number of items

③ 4

④ 4

⑤ 1

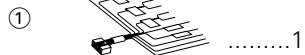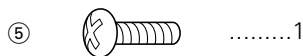(KDC-4023/KDC-3023/KDC-2023 only)

⚠ The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
7. Reconnect the ⊖ battery.
8. Press the reset button.

⚠WARNING

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.

⚠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.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- 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.
- 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.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal
- 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.

Connecting Wires to Terminals

Front left output (White) (KDC-4023 only)

Front right output (Red) (KDC-4023 only)

Rear left output (White)

KENWOOD disc changer control input (KDC-4023/3023/2023 only)

Rear right output (Red)

To connect the Disc changer, consult your Disc changer manual.

REAR

FM/AM antenna input

Fuse (10A)

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

Wiring harness (Accessory①)

When using the optional power amplifier, connect to its power control terminal.

P.CONT   Power control wire (Blue/White)

White/Black
To front left speaker
FRONT • L
White

Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna.

ANT. CONT.   Motor antenna control wire (Blue)

Gray/Black
To front right speaker
FRONT • R
Gray

Green/Black
To rear left speaker
REAR • L
Green

Ignition key switch

ACC

Purple/Black
To rear right speaker
REAR • R
Purple

Ignition wire (Red)

Car fuse box (Main fuse)

Car fuse box

Battery wire (Yellow)

Ground wire (Black) ⊖ (To car chassis)

Battery

Installation

■ *Installation*

Firewall or metal support

Screw (M4X8)
(commercially
available)

Bend the tabs of the
mounting sleeve
with a screwdriver or
similar utensil and
attach it in place.

Self-tapping screw
(commercially available)

Metal mounting strap
(commercially available)
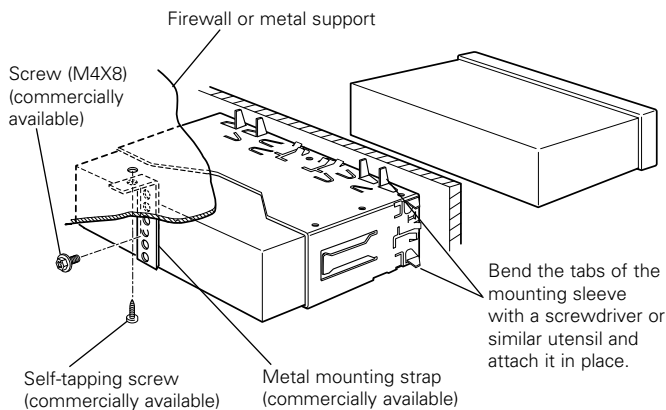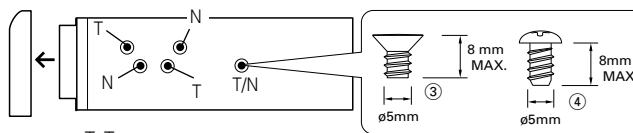
Make sure that the unit is installed securely in place. If the unit is
unstable, it may malfunction (for example, the sound may skip).

■ *Installing in Japanese-Made Cars*

1 Refer to the section "Removing the hard rubber frame" (page 18)
and then remove the hard rubber frame.

2 Align the holes in the unit (two locations on each side) with the
vehicle mounting bracket and secure the unit with the accessory
screws.

T: Toyota cars
N: Nissan cars

8 mm
MAX.
③
ø5mm

8mm
MAX.
④
ø5mm

Accessory③...for Nissan car
Accessory④ ...for Toyota car

⚠ • During installation, do not use any screws except for those provided.
The use of different screws might result in damage to the main unit.
• Damage may occur if a screwdriver or similar tool is used with
excessive force during the installations.

■ *Screwing the Faceplate on the Unit (KDC-4023/KDC-3023/KDC-2023 only)*

If you want to fasten the
faceplate to the main unit so
that it does not fall off,
screw in the provided screw
(ø4 X 16 mm) in the hole
shown below.

Accessory⑤
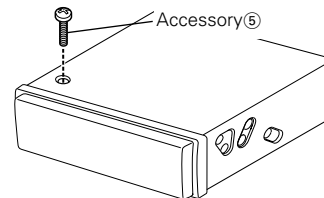
⚠ Never insert the taptite screw (ø4 × 16 mm) in any other screw hole
than the one specified. If you screw it in another hole, it will contact
and may cause damage to the mechanical parts inside the unit.

Installation

■ *Removing the hard rubber frame*

1 Engage the catch pins on the removal tool and remove the two locks on the lower level.
Lower the frame and pull it forward as shown in the figure.

Catch
Lock
Accessory② Removal tool
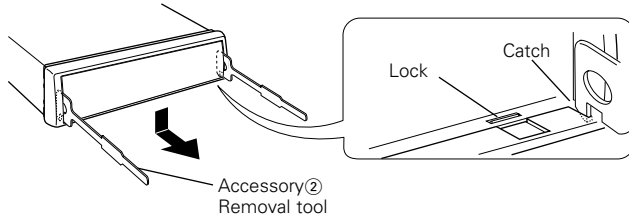
2 When the lower level is removed, remove the upper two locations.
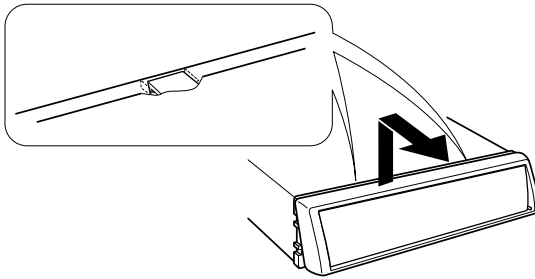
The frame can be removed from the top side in the same manner.

■ *Removing the Unit*

1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.

2 Remove the screw (M4 × 8) on the back panel.

3 Insert the two removal tools deeply into the slots on each side, as shown.

Screw (M4X8) (commercially available)
Accessory② Removal tool
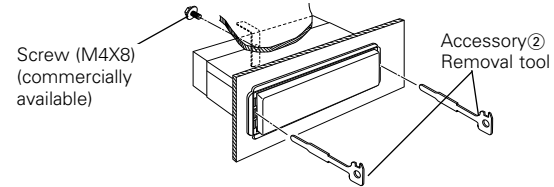
4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.

⚠ Be careful to avoid injury from the catch pins on the removal tool.
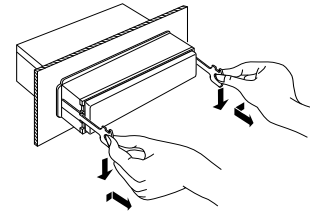
5 Pull the unit all the way out with your hands, being careful not to drop it.
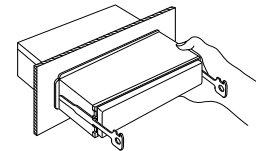
Troubleshooting Guide

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

General

? The power does not turn ON.
- ✔ The fuse has blown.
  - ☞ After checking for short circuits in the wires, replace the fuse with one with the same rating.
- ✔ No ACC position on vehicle ignition.
  - ☞ Connect the same wire to the ignition as the battery wire.

? Nothing happens when the buttons are pressed.
- ✔ The computer chip in the unit is not functioning normally.
  - ☞ Press the reset button on the unit (page 4).

? There's a source you can't switch.
- ✔ There's no CD inserted.
  - ☞ Set the media you want to listen to. If there's no media in this unit, you can't swhich to each source.

? The memory is erased when the ignition is turned OFF.
- ✔ The battery wire has not been connected to the proper terminal.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.
- ✔ The ignition and battery wire are incorrectly connected.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

? Even if Loudness is turned ON, high-pitched tone isn't compensated for.
- ✔ Tuner source is selected.
  - ☞ High-pitched tone isn't compensated for when in Tuner source.

? No sound can be heard, or the volume is low.
- ✔ The fader or balance settings are set all the way to one side.
  - ☞ Center the fader and balance settings.
- ✔ The input/output wires or wiring harness are connected incorrectly.
  - ☞ Reconnect the input/output wires or the wiring harness correctly. See the section on "Connecting Wires to Terminals".

? The sound quality is poor or distorted.
- ✔ One of the speaker wires is being pinched by a screw in the car.
  - ☞ Check the speaker wiring.
- ✔ The speakers are not wired correctly.
  - ☞ Reconnect the speaker wires so that each output terminal is connected to a different speaker.

? The Touch Sensor Tone doesn't sound.
- ✔ The preout jack is being used.
  - ☞ The Touch Sensor Tone can't be output from the preout jack.

Tuner source

? Radio reception is poor.
- ✔ The car antenna is not extended.
  - ☞ Pull the antenna out all the way.
- ✔ The antenna control wire is not connected.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

Troubleshooting Guide

Disc source

? "AVin" is displayed without achieving External disc control mode.
  ✔ Unsupported disc changer is connected.
    ☞ Use the disc changer mentioned in the IMPORTANT INFORMATION of the section on <Safety precautions>(page 3).

? The specified disc does not play, but another one plays instead.
  ✔ The specified CD is quite dirty.
    ☞ Clean the CD.

  ✔ The CD is upside-down.
    ☞ Load the CD with the labeled side up.

  ✔ The disc is loaded in a different slot from that specified.
    ☞ Eject the disc magazine and check the number for the specified disc.

  ✔ The disc is severely scratched.
    ☞ Try another disc instead.

? The specified track will not play.
  ✔ Random play or magazine random play has been selected.
    ☞ Turn off random play or magazine random play.

? Track repeat, disc repeat, track scan, random play, and magazine random play start by themselves.
  ✔ The setting is not canceled.
    ☞ The settings for these functions remain on until the setting to off or the disc ejected, even if the power is turned off or the source changed.

? Cannot play CD-R or CD-RW.
  ✔ Finalization processing is not being conducted for CD-R/CD-RW.
    ☞ Conduct finalization processing with CD recorder.

  ✔ A non-compatible CD changer is being used to play the CD-R/CD-RW.
    ☞ Use a CD changer compatible with CD-R/CD-RW to play.

? A CD ejects as soon as it is loaded.
  ✔ The CD is upside-down.
    ☞ Load the CD with the labeled side up.

  ✔ The CD is quite dirty.
    ☞ Clean the CD, referring to the section on <CD cleaning> (page 5).

? Can't remove disc.
  ✔ The cause is that more than 10 minutes has elapsed since the vehicle ACC switch was turned OFF.
    ☞ The disc can only be removed within 10 minutes of the ACC switch being turned OFF. If more than 10 minutes has elapsed, turn the ACC switch ON again and press the Eject button.

? The disc won't insert.
  ✔ There's already another disc inserted.
    ☞ Press the [⏏] button and remove the disc.

? Direct Track Search and Direct Album Search can't be done.
  ✔ Another function is ON.
    ☞ Turn Random Play or other functions OFF.

? Track Search can't be done.
  ✔ For the albums first or last song.
    ☞ For each album, Track Search can't be done in the backward direction for the first song or in the forward direction for the last song.

If the following situations, consult your nearest service center:
• Even though the disc changer is connected, the Disc Changer source is not ON, with "AVin" showing in the display during the Changer Mode.
• Even though no device (KCA-S210A, CA-C1AX, KDC-CPS89, KDC-CPS87, KDC-CX87, KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) is connected, the Auxiliary input is entered when switching modes.

Troubleshooting Guide

The messages shown below display your systems condition.

E-01: No disc magazine has been loaded in the changer.
The disc magazine is not completely loaded.
⇨ Load the disc magazine properly.
No CD in the unit.
⇨ Insert the CD.

E-02: No disc has been loaded in the disc magazine.
⇨ Load a disc into the disc magazine.

E-04: No disc has been loaded in the disc magazine.
⇨ Load a disc into the disc magazine.
The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.
⇨ Clean the CD and load it correctly.

E-10: Nothing has been recorded on the MD.

E-11: No tracks are recorded on the MD, although it has a title.

E-12: The faceplate of the slave unit being connected to this unit has been removed.
⇨ Replace it.

E-77: The unit is malfunctioning for some reason.
⇨ Press the reset button on the unit. If the "E- 77" code does not disappear, consult your nearest service center.

E-99: Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.
⇨ Check the disc magazine. And then press the reset button on the unit. If the "E-99" code does not disappear, consult your nearest service center.

E-0d: The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation.
⇨ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.

LOAd: Discs are being exchanged in the Disc changer.

IN (Blink): The CD player section is not operating properly.
⇨ Reinsert the CD. If the CD cannot be ejected or the display continues to flash even when the CD has been properly reinserted, please switch off the power and consult your nearest service center.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (200 kHz space) ....87.9 MHz – 107.9 MHz
Frequency range (50 kHz space) ....87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 30dB) ....9.3dBf (0.8 μV/75 Ω)
Quieting Sensitivity (S/N = 50dB) ....15.2dBf (1.6 μV/75 Ω)
Frequency response (±3 dB)................................30 Hz – 15 kHz
Signal to Noise ratio (MONO)..70 dB
Selectivity (±400 kHz) ....≥ 80 dB
Stereo separation (1 kHz) ....40 dB

AM tuner section

Frequency range (10 kHz space) ....530 kHz – 1700 kHz
Frequency range (9 kHz space) ....531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB) ....28 dBμ (25 μV)

CD player section

Laser diode ....GaAlAs (λ=780 nm)
Digital filter (D/A).....................................8 Times Over Sampling
D/A Converter ....1 Bit
Spindle speed...500 – 200 rpm (CLV)
Wow & Flutter.......................................Below Measurable Limit
Frequency response ....10 Hz – 20 kHz
Total harmonic distortion (1 kHz) ....0.01 %
Signal to Noise ratio (1 kHz) ....96 dB
Dynamic range ....93 dB
Channel separation..85 dB

Audio section

Maximum output power...50 W x 4
Full Bandwidth Power (at less than 1% THD) ....22 W x 4
Tone action
    Bass : ....100 Hz ±10 dB
    Middle : ....1 kHz ±10 dB
    Treble : ....10 kHz ±10 dB
Preout level / Load (during disc play)....................2000 mV/10 kΩ
Preout impedance...≤ 600 Ω

General

Operating voltage (11 – 16V allowable) ....14.4 V
Current consumption..10 A
Installation Size (W x H x D) ....182 x 53 x 157 mm
                                     7-3/16 x 2-1/16 x 6-3/16 inch
Weight...3.1 lbs (1.4 kg)